

Table S3. Training (75%) and testing (25%) AUC values and their standard deviation values for the *Nymphaea* species distribution suitability using the Maximum training sensitivity plus specificity logistic threshold (MTSS). The AUC values describe the fitness of the model in predicting the species distribution.

Species	Scenario	MTSS	Training AUC	Test AUC	Standard Deviation
<i>N. amazonum</i>	Current	0.394	0.864	0.847	0.053
	4.5(2050)	0.476	0.829	0.808	0.069
	4.5(2070)	0.476	0.825	0.803	0.069
	8.5(2050)	0.462	0.834	0.815	0.068
	8.5(2070)	0.474	0.830	0.811	0.067
<i>N. ampla</i>	Current	0.391	0.919	0.878	0.059
	4.5(2050)	0.331	0.927	0.887	0.045
	4.5(2070)	0.331	0.927	0.889	0.044
	8.5(2050)	0.312	0.928	0.891	0.045
	8.5(2070)	0.321	0.921	0.879	0.048
<i>N. jamesoniana</i>	Current	0.437	0.892	0.842	0.064
	4.5(2050)	0.443	0.889	0.859	0.049
	4.5(2070)	0.472	0.878	0.848	0.057
	8.5(2050)	0.467	0.882	0.848	0.054
	8.5(2070)	0.471	0.879	0.849	0.054
<i>N. lasiophylla</i>	Current	0.169	0.973	0.963	0.018
	4.5(2050)	0.175	0.969	0.953	0.027
	4.5(2070)	0.188	0.967	0.951	0.028
	8.5(2050)	0.197	0.967	0.953	0.029
	8.5(2070)	0.228	0.969	0.958	0.023
<i>N. lingulata</i>	Current	0.431	0.915	0.902	0.054
	4.5(2050)	0.327	0.904	0.890	0.054
	4.5(2070)	0.330	0.901	0.889	0.055
	8.5(2050)	0.346	0.904	0.891	0.051
	8.5(2070)	0.355	0.895	0.882	0.056
<i>N. pulchella</i>	Current	0.385	0.932	0.927	0.031
	4.5(2050)	0.277	0.940	0.936	0.024
	4.5(2070)	0.276	0.939	0.935	0.024
	8.5(2050)	0.265	0.942	0.938	0.024
	8.5(2070)	0.265	0.938	0.933	0.025
<i>N. rudgeana</i>	Current	0.443	0.829	0.814	0.074
	4.5(2050)	0.439	0.822	0.794	0.082
	4.5(2070)	0.459	0.826	0.801	0.083
	8.5(2050)	0.451	0.824	0.796	0.086
	8.5(2070)	0.450	0.831	0.806	0.081