

Rediscovery of *Stomaphis radicolica* Hille Ris Lambers, 1947 (Hemiptera, Aphididae, Lachninae) in Europe – potential past and future distribution of a large but cryptic, arbiculous aphid species

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SM.02. The results of the evaluation methods for the different MaxEnt settings.

Table S2. The results of the evaluation methods for the different Maxent settings

Species	Settings			Evaluation method							
	maximum number of	feature type (Auto or LQP -	maximum number of	AUC	P-ROC AUC	Fixed P-ROC	pAUC Ratio	AIC	AICc	ΔAICc	BIC
<i>Stomaphis radicolica</i>	10000	Auto	250	0,982	0,980	0,996	1,961	608,69	618,03	7,17	615,66
			500	0,974	0,981	0,996	1,962	611,27	624,36	13,50	619,23
			750	0,979	0,981	0,996	1,962	608,57	617,90	7,04	615,54
			1000	0,979	0,982	0,995	1,964	605,00	611,47	0,61	610,98
		LQP	250	0,975	0,984	0,997	1,968	613,47	622,80	11,95	620,44
			500	0,980	0,983	0,997	1,966	611,71	621,05	10,19	618,68
			750	0,980	0,981	0,997	1,962	613,28	622,61	11,75	620,25
			1000	0,975	0,982	0,998	1,965	613,38	622,71	11,85	620,35
	20000	Auto	250	0,977	0,982	0,995	1,965	604,40	610,86	0,00	610,37
			500	0,980	0,981	0,995	1,962	607,04	616,37	5,52	614,01
			750	0,982	0,985	0,994	1,969	605,97	615,31	4,45	612,94 (!)
			1000	0,981	0,982	0,996	1,965	609,47	622,56	11,70	617,43
		LQP	250	0,980	0,981	0,997	1,963	614,55	632,55	21,69	623,51
			500	0,981	0,984	0,997	1,968	611,51	620,85	9,99	618,48
			750	0,981	0,981	0,997	1,963	617,44	641,89	31,03	627,40
			1000	0,981	0,985	0,997	1,969	611,34	624,43	13,58	619,31

Comment: model marked by (!) was selected

Species	Regularization multiplier for model with previously chosen settings	AUC	P-ROC AUC	Fixed P-ROC AUC	pAUC Ratio	AIC	AICc	ΔAICc	BIC
<i>Stomaphis radicolica</i>	rm = 0.5	0,985	0,989	0,995	1,978	596,05	609,15	0,00	604,02
	rm = 0.75	0,978	0,986	0,995	1,973	600,26	609,59	0,45	607,23
	rm = 1	0,982	0,985	0,994	1,969	605,97	615,31	6,16	612,94 (!)
	rm = 1.25	0,981	0,981	0,996	1,963	608,31	614,77	5,62	614,28
	rm = 1.5	0,977	0,981	0,995	1,962	609,52	613,81	4,66	614,50
	rm = 1.75	0,976	0,980	0,996	1,961	611,16	615,44	6,30	616,14

Comment: model marked by (!) was selected