

Appendix S2

Detailed results from species distribution models.

Considering test data for models with climatic or geographic variables, respectively, three and one species (1.7 and 0.6%) had AUC values lower than 0.5, while 52 and 68 species (29.2 and 38.2%) had AUC values lower than 0.7 (Table S2.1).

Comparing taxonomic groups, for models with climatic or geographic variables respectively, only three and one arthropods species (4.5 and 1.5%) had AUC values lower than 0.5 (for models considering climatic variables – *Crotchiella brachyptera*, *Drouetius borgesii centralis*, *Megaselia leptofemur* – and geographic variables – *Orchestia chevreauxi* – respectively). For climatic predictors, the highest number of AUC values lower than 0.7 was in arthropod species (19 species – 28.8%) while for geographic predictors it was in vascular plants (26 species, 53.1%).

Table S2.1 Number of species with AUC values lower than 0.7 and/or lower than 0.5 (values in brackets are the corresponding percentages).

	Test Data				
	n total	Climatic predictors		Geographic predictors	
		n AUC < 0.5	n AUC < 0.7	n AUC < 0.5	n AUC < 0.7
Bryophytes	50	0 (0.0%)	15 (30.0%)	0 (0.0%)	14 (28.0%)
Vascular plants	49	0 (0.0%)	15 (30.6%)	0 (0.0%)	26 (53.1%)
Molluscs	13	0 (0.0%)	3 (23.1%)	0 (0.0%)	8 (61.5%)
Arthropods	66	3 (4.5%)	19 (28.8%)	1 (1.5%)	20 (30.3%)
Total	178	3 (1.7%)	52 (29.2%)	1 (0.6%)	68 (38.2%)

Table S2.2 Species included in the SDMs analyses, number of samples (n) of each data set used for modelling, AUC values of training (Tr) and test (Te) data, and selection or rejection of species for subsequent analysis (see section 2.3 for details). AUC values lower than 0.5 and/or 0.7 are shaded in gray; AzE: Azorean endemism; CS: conservation status (bryophytes conservation status was based on the Azorean Biodiversity Portal – <http://www.azoresbiportal.angra.uac.pt/>).

	AzE	CS	Modelling results with climatic variables			Modelling results with geographic variables			Comments
			n Tr/Te	AUC Tr	AUC Te	n Tr/Te	AUC Tr	AUC Te	
Bryophytes									
<i>Acanthocoleus aberrans</i>	No	R	16/4	0.946	0.987	16/4	0.883	0.766	
<i>Acrobolbus wilsonii</i>	No	V	94/23	0.928	0.905	48/11	0.870	0.878	
<i>Alophosia azorica</i>	No	R	287/71	0.682	0.683	133/33	0.837	0.763	
<i>Andoa berthelotiana</i>	No	R	848/212	0.612	0.570	655/163	0.633	0.650	
<i>Anthoceros caucasicus</i>	No	R	117/29	0.824	0.738	98/24	0.791	0.769	
<i>Aphanolejeunea azorica</i>	No	V	159/39	0.811	0.771	158/39	0.737	0.686	
<i>A. madeirensis</i>	No	R	67/16	0.930	0.900	67/16	0.826	0.773	
<i>A. sintenisii</i>	No	V	312/77	0.744	0.728	289/72	0.748	0.750	
<i>Asterella africana</i>	No	V	63/15	0.792	0.699	9/2	0.799	0.526	
<i>Bazzania azorica</i>	Yes	R	301/75	0.818	0.854	260/64	0.796	0.756	
<i>Breutelia azorica</i>	Yes	R	176/44	0.848	0.829	125/31	0.823	0.817	
	No	R	32/8	0.884	0.869	32/8	0.827	0.878	

	AzE	CS	Modelling results with climatic variables			Modelling results with geographic variables			Comments
			n Tr/Te	AUC Tr	AUC Te	n Tr/Te	AUC Tr	AUC Te	
<i>Bryoerythrophyllum inaequalifolium</i>									
<i>Calypogeia azorica</i>	No	R	93/23	0.895	0.839	87/21	0.845	0.853	
<i>Campylopus shawii</i>	No	R	107/26	0.871	0.902	60/15	0.905	0.883	
<i>Cephalozia crassifolia</i>	No	V	267/66	0.800	0.795	203/50	0.792	0.792	
<i>Cheilolejeunea cedercreutzii</i>	Yes	V	84/21	0.936	0.954	70/17	0.916	0.908	
<i>Colura calyptrifolia</i>	No	RT	379/94	0.793	0.794	301/75	0.786	0.757	
<i>Cyclodictyon laetevirens</i>	No	R	164/41	0.842	0.837	142/35	0.853	0.856	
<i>Daltonia stenophylla</i>	No	V	133/33	0.914	0.926	133/33	0.879	0.914	
<i>Dumortiera hirsuta</i>	No	R	427/106	0.690	0.661	200/50	0.774	0.726	
<i>Echinodium renauldii</i>	Yes	V	135/33	0.843	0.866	47/11	0.757	0.767	
<i>Fissidens asplenoides</i>	No	R	482/120	0.625	0.618	299/74	0.696	0.612	
<i>F. monguillonii</i>	No	R		Lack of data					Excluded
<i>F. sublineaeifolius</i>	No	R		Lack of data for SDM					Final map with occurrence points
<i>Grimmia lisae</i>	No	R	431/107	0.686	0.686	225/56	0.731	0.728	
<i>Herbertus sendtneri</i>	Yes	R	217/54	0.855	0.844	168/42	0.813	0.766	
<i>Heterocladium wulfsbergii</i>	No	T		Lack of data					Excluded
<i>Heteroscyphus denticulatus</i>	No	R	292/72	0.764	0.764	48/12	0.820	0.745	
<i>Hypnum uncinulatum</i>	No	RT	552/137	0.699	0.668	414/103	0.706	0.720	
<i>Isopterygium tenerum</i>	No	E	52/12	0.849	0.727	52/12	0.834	0.740	
<i>Isothecium prolixum</i>	No	R	489/122	0.724	0.708	328/82	0.734	0.748	Synonym: <i>Echinodium prolixum</i>
<i>Lejeunea eckloniana</i>	No	R	253/63	0.739	0.744	122/30	0.795	0.688	
<i>L. flava</i> subsp. <i>moorei</i>	No	R	213/53	0.759	0.787	133/33	0.723	0.687	
<i>L. hibernica</i>	No	R	144/36	0.840	0.804	49/12	0.939	0.848	
<i>Leptoscyphus azoricus</i>	No	V	64/16	0.935	0.905	52/12	0.925	0.917	
<i>Microcampylopus laevigatus</i>	No	R		Lack of data					Excluded
<i>Mnioloma fuscum</i>	No	R	159/39	0.855	0.849	103/25	0.908	0.836	
<i>Neckera intermedia</i>	No	RT	318/79	0.695	0.683	170/42	0.724	0.618	
<i>Pallavicinia lyellii</i>	No	V	158/39	0.869	0.846	100/25	0.844	0.837	
<i>Plagiochila longispina</i>	No	V	92/22	0.859	0.852	68/16	0.910	0.881	
<i>Porella canariensis</i>	No	T	362/90	0.699	0.645	300/75	0.647	0.663	
<i>Pseudotaxiphyllum laetevirens</i>	No	R	160/39	0.868	0.824	112/28	0.886	0.849	
<i>Ptychomitrium nigrescens</i>	No	RT	353/88	0.693	0.599	173/43	0.682	0.694	
<i>Radula carringtonii</i>	No	R	535/133	0.666	0.656	395/98	0.665	0.663	
<i>R. holtii</i>	No	R	152/38	0.821	0.745	151/37	0.744	0.705	
<i>R. nudicaulis</i>	No	R	64/15	0.940	0.880	54/13	0.895	0.912	
<i>R. wichurae</i>	No	V	221/55	0.712	0.621	127/31	0.714	0.627	
<i>Rhamphidium purpuratum</i>	No	V	169/42	0.755	0.705	116/29	0.826	0.812	
<i>Telaranea azorica</i>	No	V	212/53	0.870	0.845	203/50	0.809	0.760	
<i>T. europaea</i>	No	R	324/80	0.781	0.763	273/68	0.799	0.798	
<i>Tetrastichium fontanum</i>	No	R	496/123	0.658	0.623	268/67	0.679	0.643	
<i>T. virens</i>	No	R	310/77	0.667	0.554	181/45	0.727	0.689	
<i>Thamnobryum alopecurum</i>	No	R	286/71	0.714	0.694	248/61	0.719	0.649	Synonym: <i>Thamnobryum maderense</i>
<i>Tylimanthus laxus</i>	Yes	V	196/49	0.865	0.843	143/35	0.825	0.853	
Vascular plants									
<i>Agrostis azorica</i>	Yes		10/2	0.831	0.951	10/2	0.765	0.969	
	Yes			Lack of data					Excluded

	AzE	CS	Modelling results with climatic variables			Modelling results with geographic variables			Comments
			n Tr/Te	AUC Tr	AUC Te	n Tr/Te	AUC Tr	AUC Te	
<i>A. congestiflora</i> subsp. <i>congestiflora</i>									
<i>A. congestiflora</i> subsp. <i>oreophila</i>	Yes								Final map with occurrence points
<i>A. gracililaxa</i>	Yes		145/36	0.833	0.789	144/36	0.822	0.684	
<i>Ammi seubertianum</i>	Yes								Excluded
<i>A. trifoliatum</i>	Yes		65/16	0.877	0.855	65/16	0.866	0.776	Synonym: <i>Ammi hunti</i>
<i>Angelica lignescens</i>	Yes		58/14	0.923	0.906	58/14	0.850	0.802	
<i>Arceuthobium azoricum</i>	Yes								Final map with occurrence points
<i>Azorina vidalii</i>	Yes		139/34	0.868	0.866	136/34	0.867	0.841	
<i>Begonia grandis</i>	Yes								Excluded
<i>B. herbacea</i>	Yes								Excluded
<i>Bellis azorica</i>	Yes		81/20	0.845	0.825	81/20	0.825	0.745	
<i>Cardamine caldeirarum</i>	Yes		416/103	0.765	0.727	416/103	0.683	0.698	
<i>Carex hochstetteriana</i>	Yes		613/153	0.697	0.720	548/137	0.682	0.652	
<i>C. pilulifera</i> subsp. <i>azorica</i>	Yes								Excluded
<i>C. vulcani</i>	Yes		726/181	0.733	0.752	695/173	0.650	0.626	
<i>Chaerophyllum azoricum</i>	Yes		33/8	0.914	0.820	32/7	0.873	0.885	
<i>Corema album</i> subsp. <i>azoricum</i>	Yes		24/5	0.890	0.858	23/5	0.912	0.714	
<i>Daboecia azorica</i>	Yes		177/44	0.844	0.811	177/44	0.795	0.796	
<i>Daucus carota</i> subsp. <i>azoricus</i>	Yes		1433/358	0.601	0.608	1426/356	0.592	0.590	
<i>Deschampsia foliosa</i>	Yes		700/175	0.746	0.759	700/175	0.671	0.656	
<i>Dryopteris azorica</i>	Yes		782/195	0.709	0.706	782/195	0.658	0.648	
<i>D. crispifolia</i>	Yes		119/29	0.847	0.824	119/29	0.809	0.819	
<i>Erica azorica</i>	Yes		2308/576	0.551	0.569	2301/575	0.539	0.529	
<i>Euphorbia azorica</i>	Yes		622/155	0.716	0.718	416/104	0.776	0.776	
<i>E. stygiana stygiana</i>	Yes		212/53	0.863	0.870	67/16	0.882	0.878	
<i>Euphrasia grandiflora</i>	Yes								Final map with occurrence points
<i>Festuca francoi</i>	Yes		821/205	0.723	0.717	820/205	0.661	0.667	
<i>F. petraea</i>	Yes		766/191	0.695	0.652	734/183	0.715	0.717	
<i>Frangula azorica</i>	Yes		879/219	0.705	0.677	643/160	0.661	0.668	
<i>Gaudinia coarctata</i>	Yes								Excluded
<i>Hedera azorica</i>	Yes		1696/423	0.585	0.570	1693/423	0.557	0.567	
<i>Holcus azoricus</i>	Yes		140/35	0.800	0.802	140/35	0.744	0.658	
<i>H. rigidus</i>	Yes		1492/372	0.613	0.614	1488/372	0.581	0.559	
<i>Hypericum foliosum</i>	Yes		1519/379	0.596	0.614	818/204	0.601	0.607	
<i>Ilex perado</i> subsp. <i>azorica</i>	Yes		1313/328	0.639	0.627	969/242	0.645	0.640	
<i>Juniperus brevifolia</i>	Yes		1007/251	0.660	0.646	1004/250	0.622	0.621	
<i>Lactuca watsoniana</i>	Yes		89/22	0.934	0.917	89/22	0.883	0.803	
<i>Laurus azorica</i>	Yes		1325/331	0.577	0.577	1321/330	0.577	0.546	
<i>Leontodon filii</i>	Yes		102/25	0.896	0.876	102/25	0.862	0.836	
<i>L. rigens</i>	Yes		64/15	0.915	0.937	64/15	0.905	0.918	
<i>Lotus azoricus</i>	Yes		76/18	0.862	0.817	76/18	0.852	0.771	
<i>Luzula purpureosplendens</i>	Yes		953/238	0.685	0.669	953/238	0.647	0.649	
<i>Lysimachia azorica</i>	Yes		1351/337	0.630	0.618	1349/337	0.596	0.594	

	AzE	CS	Modelling results with climatic variables			Modelling results with geographic variables			Comments
			n Tr/Te	AUC Tr	AUC Te	n Tr/Te	AUC Tr	AUC Te	
<i>Myosotis azorica</i>	Yes				Lack of data			Excluded	
<i>M. maritima</i>	Yes		95/23	0.872	0.852	88/22	0.870	0.885	
<i>Pericallis malvifolia</i> subsp. <i>malvifolia</i>	Yes		342/85	0.719	0.736	316/79	0.702	0.685	
<i>Picconia azorica</i>	Yes		978/244	0.652	0.660	974/243	0.612	0.610	
<i>Platanthera azorica</i>	Yes				Lack of data for SDM			Final map with occurrence points	
<i>P. micrantha</i>	Yes				Lack of data for SDM			Final map with occurrence points	
<i>Polypodium azoricum</i>	Yes		685/171	0.622	0.640	680/170	0.589	0.561	
<i>Prunus azorica</i>	Yes		61/15	0.853	0.861	61/15	0.724	0.798	
<i>Rubus hochstetterorum</i>	Yes		608/152	0.756	0.744	607/151	0.656	0.634	
<i>Rumex azoricus</i>	Yes				Lack of data			Excluded	
<i>Sanicula azorica</i>	Yes		75/18	0.904	0.847	75/18	0.793	0.778	
<i>Scabiosa nitens</i>	Yes		286/71	0.792	0.779	284/71	0.771	0.750	
<i>Silene uniflora</i> subsp. <i>cratericola</i>	Yes		8/1	0.996	1.000	8/1	0.993	0.994	
<i>Smilax azorica</i>	Yes		156/39	0.814	0.754	128/31	0.755	0.640	
<i>Spergularia azorica</i>	Yes		146/36	0.819	0.797	145/36	0.835	0.828	
<i>Tolpis azorica</i>	Yes		534/133	0.755	0.739	534/133	0.721	0.717	
<i>Vaccinium cylindraceum</i>	Yes		1351/337	0.631	0.633	1350/337	0.597	0.565	
<i>Viburnum treleasei</i>	Yes		713/178	0.731	0.753	711/177	0.661	0.626	
Molluscs									
<i>Acanthinula azorica</i>	Yes		118/29	0.840	0.795	64/15	0.740	0.813	
<i>Azorivitrina brumalis</i>	Yes		257/64	0.724	0.725	228/56	0.711	0.692	
<i>Lauria fasciolata</i>	Yes		509/127	0.653	0.641	364/91	0.647	0.592	
<i>Leiostyla fuscidula</i>	Yes		193/48	0.692	0.720	193/48	0.699	0.573	
<i>L. rugulosa</i>	Yes		83/20	0.821	0.828	64/16	0.761	0.799	
<i>Leptaxis drouetiana</i>	Yes		27/6	0.918	0.900	9/2	0.826	0.837	
<i>Moreletina horripila</i>	Yes				Lack of data			Excluded	
<i>M. vespertina</i>	Yes		135/33	0.860	0.903	36/8	0.811	0.764	
<i>Napaeus delibutus</i>	Yes		47/11	0.826	0.815	47/11	0.734	0.590	
<i>N. forbesianus</i>	Yes		52/13	0.915	0.911	12/2	0.775	0.831	
<i>Oxychilus minor</i>	Yes		40/10	0.794	0.866	40/10	0.748	0.644	
<i>Plutonia atlantica</i>	Yes		218/54	0.756	0.691	184/45	0.707	0.654	
<i>Punctum azoricum</i>	Yes		91/22	0.822	0.677	90/22	0.744	0.660	
<i>Spermodea monas</i>	Yes		73/18	0.849	0.868	45/11	0.727	0.698	
<i>Zonitoides azoricus</i>	Yes				Lack of data			Excluded	
Arthropods									
<i>Acorigone acoreensis</i>	Yes		51/12	0.902	0.899	51/12	0.923	0.889	
<i>Agabus godmani</i>	Yes				Lack of data			Excluded	
<i>Alestrus dolosus</i>	Yes		39/9	0.903	0.872	39/9	0.894	0.912	
<i>Aphrodes hamiltoni</i>	Yes		81/20	0.880	0.858	81/20	0.878	0.883	
<i>Aphrosylus calcarator</i>	Yes				Lack of data			Excluded	
<i>Argyresthia atlanticella</i>	Yes		372/92	0.665	0.623	362/90	0.691	0.674	
<i>A. minusculella</i>	Yes				Lack of data			Excluded	
<i>Ascotis fortunata azorica</i>	Yes		347/86	0.661	0.651	339/84	0.649	0.686	
<i>Atlantocis gillerforsi</i>	Yes		36/9	0.815	0.895	36/9	0.754	0.654	
<i>Bembidion schmidti mequignoni</i>	Yes				Lack of data for SDM			Final map with occurrence points	
<i>Brachmia infuscatella</i>	Yes		42/10	0.833	0.833	11/2	0.799	0.986	

	AzE	CS	Modelling results with climatic variables			Modelling results with geographic variables			Comments	
			n Tr/Te	AUC Tr	AUC Te	n Tr/Te	AUC Tr	AUC Te		
<i>Brachypogon griseipennis</i>	Yes								Lack of data	Excluded
<i>Calacalles droueti</i>	Yes								Lack of data for SDM	Final map with occurrence points
<i>C. subcarinatus</i>	Yes		104/26	0.775	0.689	104/26	0.754	0.627		
<i>Calathus extensicollis</i>	Yes								Lack of data	Excluded
<i>Canariphantes acoreensis</i>	Yes		15/3	0.968	0.988	15/3	0.912	0.995		
<i>Cedrorum azoricus caveirensis</i>	Yes								Lack of data for SDM	Final map with occurrence points
<i>Cerodontha bistrigata</i>	Yes								Lack of data	Excluded
<i>Chaetophiloscia guernei</i>	Yes								Lack of data for SDM	Final map with occurrence points
<i>Chironomus annularius</i>	Yes		8/1	0.871	0.920	8/1	0.768	0.953		
<i>Chrysotus elongatus</i>	Yes								Lack of data	Excluded
<i>C. polychaetus</i>	Yes								Lack of data	Excluded
<i>C. vulcanicola</i>	Yes								Lack of data	Excluded
<i>C. xanthoprasinus</i>	Yes								Lack of data	Excluded
<i>Cixius azopicavus</i>	Yes								Cave species	Final map with occurrence points
<i>C. azopifajo azopifajo</i>	Yes								Lack of data for SDM	Final map with occurrence points
<i>C. azoricus azoropicoi</i>	Yes		44/11	0.963	0.934	44/11	0.882	0.778		
<i>Coenosia testacea azorica</i>	Yes								Lack of data	Excluded
<i>Conocephalus chavesi</i>	Yes		64/16	0.885	0.854	40/9	0.913	0.855		
<i>Crotchiella brachyptera</i>	Yes		9/2	0.535	0.442	9/2	0.745	0.751		Final map with occurrence points
<i>Culiseta atlantica</i>	Yes								Lack of data	Excluded
<i>Cyclophora azorensis</i>	Yes		356/88	0.691	0.614	281/70	0.677	0.718		
<i>Drouetius borgesii centralis</i>	Yes		11/2	0.606	0.222	10/2	0.752	0.563		Final map with occurrence points
<i>Elipsocus azoricus</i>	Yes		130/32	0.768	0.610	116/28	0.798	0.763		
<i>E. brincki</i>	Yes		140/35	0.765	0.701	112/27	0.740	0.741		
<i>Emblyna acoreensis</i>	Yes		154/38	0.791	0.708	153/38	0.702	0.742		
<i>Encarsia estrellae</i>	Yes		24/6	0.950	0.922	24/6	0.931	0.979		
<i>Ensina azorica</i>	Yes								Lack of data	Excluded
<i>Eucyclops agiloides azorensis</i>	Yes								Lack of data	Excluded
<i>Eudonia interlinealis</i>	Yes		270/67	0.714	0.668	181/45	0.714	0.550		
<i>E. luteusalis</i>	Yes		109/27	0.869	0.844	77/19	0.844	0.935		
<i>E. melanographa</i>	Yes		112/28	0.830	0.764	80/19	0.806	0.699		
<i>Eukiefferiella gracei</i>	Yes								Lack of data	Excluded
<i>Eupteryx azorica</i>	Yes		82/20	0.795	0.725	13/3	0.827	0.712		
<i>Gibbaranea occidentalis</i>	Yes		228/57	0.719	0.648	213/53	0.735	0.699		
<i>Graphania granti</i>	Yes		31/7	0.903	0.843	16/3	0.944	0.903		
<i>Hemerobius azoricus</i>	Yes		116/28	0.779	0.777	92/22	0.789	0.684		
<i>Hermanniella incondita</i>	Yes								Lack of data	Excluded
<i>Heteroderes azoricus</i>	Yes								Lack of data	Excluded
<i>Hipparchia azorina azorina</i>	Yes		224/55	0.845	0.828	133/33	0.846	0.804		
<i>Homoeosoma picoensis</i>	Yes								Lack of data for SDM	Final map with occurrence points
<i>Hyadina agostinhoi</i>	Yes								Lack of data	Excluded
<i>Hydroporus guernei</i>	Yes		90/22	0.830	0.805	20/4	0.937	0.853		

	AzE	CS	Modelling results with climatic variables			Modelling results with geographic variables			Comments
			n Tr/Te	AUC Tr	AUC Te	n Tr/Te	AUC Tr	AUC Te	
<i>Lasaeola oceanica</i>	Yes		108/26	0.791	0.809	107/26	0.738	0.716	
<i>Liacarus angustatus</i>	Yes		32/8	0.775	0.708	32/8	0.799	0.774	
<i>Limnephilus atlanticus</i>	Yes		48/12	0.933	0.922	28/7	0.956	0.912	
<i>Lithobius melanops borgei</i>	Yes		10/2	0.950	0.969	10/2	0.956	0.936	
<i>L. obscurus azoreae</i>	Yes				Cave species				Final map with occurrence points
<i>Macrocera azorica</i>	Yes				Lack of data				Excluded
<i>Megaselia leptofemur</i>	Yes		9/2	0.703	0.330	9/2	0.826	0.728	Final map with occurrence points
<i>Meloboris longicauda</i>	Yes				Lack of data				Excluded
<i>Mesapamea storai</i>	Yes		235/58	0.722	0.696	235/58	0.686	0.636	
<i>Micrurapteryx bistrigella</i>	Yes				Lack of data				Excluded
<i>Minicia floresensis</i>	Yes		42/10	0.923	0.913	42/10	0.921	0.902	
<i>Neomariania oecophorella</i>	Yes		38/9	0.928	0.846	12/3	0.833	0.645	
<i>N. scriptella</i>	Yes		14/3	0.812	0.833	14/3	0.841	0.647	
<i>Neon acoreensis</i>	Yes		64/15	0.766	0.676	64/15	0.831	0.755	
<i>Noctua atlantica</i>	Yes		303/75	0.627	0.628	270/67	0.649	0.619	
<i>N. carvalhoi</i>	Yes		71/17	0.792	0.725	71/17	0.700	0.743	
<i>Orchestia chevreuxi</i>	Yes		84/21	0.776	0.818	5/1	0.917	0.407	
<i>Parapetrobius azoricus</i>	Yes				Lack of data				Excluded
<i>Pardosa acorensis</i>	Yes		401/100	0.645	0.580	192/47	0.715	0.714	
<i>Phloeosinus gillerforsi</i>	Yes		18/4	0.843	0.664	18/4	0.925	0.854	
<i>Phloeostiba azorica</i>	Yes		23/5	0.866	0.712	23/5	0.880	0.824	
<i>Phlogophora cabrali</i>	Yes		88/21	0.765	0.698	88/21	0.735	0.590	
<i>P. furnasi</i>	Yes				Lack of data				Excluded
<i>P. interrupta</i>	Yes		242/60	0.725	0.715	203/50	0.710	0.719	
<i>Pieris brassicae azorensis</i>	Yes		844/210	0.646	0.636	779/194	0.626	0.636	
<i>Pinalitus oromii</i>	Yes		100/25	0.860	0.964	85/21	0.865	0.806	
<i>Pisaura acoreensis</i>	Yes		134/33	0.846	0.834	113/28	0.900	0.869	
<i>Porrhomma borgesii</i>	Yes		26/6	0.957	0.935	26/6	0.933	0.941	
<i>Pseudanchomenus aptinoides</i>	Yes				Lack of data for SDM				Final map with occurrence points
<i>Pseudechinosoma nodosum</i>	Yes		41/10	0.848	0.832	25/6	0.809	0.965	
<i>Pseudoblothrus vulcanus</i>	Yes				Cave species				Final map with occurrence points
<i>Pseudosinella ashmoleorum</i>	Yes		16/4	0.817	0.820	16/4	0.749	0.765	
<i>P. azorica</i>	Yes		11/2	0.725	0.620	11/2	0.685	0.547	Final map with occurrence points
<i>Rugathodes acoreensis</i>	Yes		136/33	0.826	0.796	136/33	0.818	0.689	
<i>R. pico</i>	Yes				Cave species				Final map with occurrence points
<i>Sancus acoreensis</i>	Yes		104/25	0.887	0.894	104/25	0.842	0.807	
<i>Savigniorhipis acoreensis</i>	Yes		139/34	0.839	0.846	138/34	0.856	0.764	
<i>Scaptomyza impunctata</i>	Yes				Lack of data				Excluded
<i>Schoenomyza litorella major</i>	Yes				Lack of data				Excluded
<i>Sciapus glaucescens brioni</i>	Yes				Lack of data				Excluded
<i>Scoparia aequipennalis</i>	Yes		345/86	0.672	0.718	243/60	0.698	0.686	
<i>S. carvalhoi</i>	Yes		20/5	0.786	0.815	20/5	0.831	0.913	
<i>S. coecimaculalis</i>	Yes		188/46	0.815	0.801	155/38	0.750	0.791	

	AzE	CS	Modelling results with climatic variables			Modelling results with geographic variables			Comments
			n Tr/Te	AUC Tr	AUC Te	n Tr/Te	AUC Tr	AUC Te	
<i>S. semiamplalis</i>	Yes		133/33	0.805	0.765	112/27	0.766	0.748	
<i>Sphaerophoria nigra</i>	Yes				Lack of data			Excluded	
<i>Strophingia harteni</i>	Yes		92/23	0.784	0.730	79/19	0.761	0.788	
<i>Syrphoctonus morio</i>	Yes				Lack of data				
<i>Tarphius acuminatus</i>	Yes				Lack of data for SDM			Final map with occurrence points	
<i>T. gabriellae</i>	Yes				Lack of data for SDM			Final map with occurrence points	
<i>T. picoensis</i>	Yes		12/2	0.944	0.951	12/2	0.824	0.562	
<i>Telmatopelopia nemorum</i>	Yes				Lack of data			Excluded	
<i>Tipula macaronesica</i>	Yes				Lack of data			Excluded	
<i>Trechus montanheiorum</i>	Yes				Cave species			Final map with occurrence points	
<i>T. pereirai</i>	Yes				Cave species			Final map with occurrence points	
<i>T. picoensis</i>	Yes				Cave species			Final map with occurrence points	
<i>Trigoniophthalmus borgesii</i>	Yes		36/8	0.920	0.907	36/8	0.918	0.937	
<i>Udea azorensis</i>	Yes		123/30	0.781	0.656	106/26	0.742	0.721	
<i>Walckenaeria grandis</i>	Yes		24/6	0.946	0.940	24/6	0.926	0.964	
<i>Xanthandrus azorensis</i>	Yes				Lack of data			Excluded	
<i>Xanthorhoe inaequata</i>	Yes		220/54	0.784	0.764	190/47	0.755	0.701	