Supplementary material

Table S1.1 Endemic species of the TVB belonging to five taxonomic groups, with the initial number of occurrences (data points) used and if they were (Y) or not (N) modeled.

Species	Number of data points	Modeled
Amphibia		
Ambystoma altamirani	74	N
Ambystoma amblycephalum	27	Y
Ambystoma andersoni	7	N
Ambystoma bombypellum	1	N
Ambystoma dumerilii	16	N
Ambystoma flavipiperatum	19	Y
Ambystoma granulosum	43	N
Ambystoma leorae	8	N
Ambystoma lermaense	23	N
Ambystoma mexicanum	26	N
Ambystoma ordinarium	25	Y
Ambystoma rivulare	27	N
Ambystoma taylori	5	N
Ambystoma velasci	41	Y
Chiropterotriton orculus	11	N
Eleutherodactylus grandis	6	N
Eleutherodactylus maurus	9	Y
Lithobates chichicuahutla	1	N
Lithobates dunni	29	N
Lithobates megapoda	72	Y
Lithobates tlaloci	9	N
Pseudoeurycea altamontana	23	Y
Pseudoeurycea gadovii	29	Y
Pseudoeurycea longicauda	6	N
Pseudoeurycea robertsi	33	N
Aves		
Picoides stricklandi	18	Y
Insecta		
Acronyctodes mexicanaria	36	Y
Aedes niveoscutum	2	N
Aeschropteryx marciana	2	N
Aeshna williamsoniana	3	N
Agylla idolon	5	N
Andrena fulminea	12	N
Aphodius ophistius	1	N
Apicia remorta	3	N
Aptinothrips rufus	2	N
Atopsyche boneti	1	N
Aztecatopse amorimi	1	N
Bembidion submaculatum	24	N
Bolla semitincta	5	N
Calathus aztec	36	Y
Calosoma laevigatum	4	N
Cediopsylla tepolita	6	N
Ceratophyllus gilvus	3	N
Chaetisothrips reticulatus	1	N
Chaetisothrips striatus	1	N
Chilicola mexicana	4	N
Chirothrips falsus	2	N
Chirothrips orizaba	5	N
Colletes bryanti	2	N
Coloradia euphrosyne	28	Y
Copestylum alberlena	2	N
Culicoides albomaculata	2	N

Culicoides bakeri	2	N
Culicoides copiosus	3	N
Culicoides dampfi	2	N
Culicoides wirthomyla	1	N
Dactylopsylla megasoma	6	N
Dianthidium discophorum	11	Y
Dyscolus machetellus	4	N
Erpetogomphus boa	2	N
Euchaetes psara	6	N
Foxella macgregori	6	N
Frankliniella chamulae	1	N
Frankliniella simplex	8	N
Golofa globulicornis	7	Y
Halffterius rufoclavatus	38	Y
Heliscus eclipticus	1	N
Holomelina polyphron	8	Y
Hormopsylla trux	2	N
Hydraecia arnymai	2	N
Hypercompe andromela	23	N
Hypocrisias lisoma	13	Y
Hyssia plenipotentia	2	N
Lejops mexicanus	7	N
Lepidostoma aztecum	2	N
Leucanopsis perdentata	7	N
Melipona colimana	2	N
Metacrisiodes pua	2	N
Mexalictus mexicanus	15	N
Mydas annularis	4	N
Mydrosoma bohartorum	4	N
Neohydatothrips tibialis	1	N
Nephelistis oomae	2	N
Nyctosia poicilonotus	12	Y
Olceclostera maya	5	N
Onthophagus hippopotamus	2	N
Onthophagus subcancer	15	N
Onthotrupes herbeus	29	Y
Orchopeas neotomae	6	N
Osmia aliciae	16	N
Panorpa umbricola	1	N
Passalus mucronatus	1	N

Petrejoides jalapensis	2	N
Pheidole skwarrae	6	N
Platynus machetellus	4	N
Plusaetis aztecus	35	Y
Proculejus brevis	13	N
Pseudacanthus mexicanus	11	N
Pseudoprocris gracilis	8	N
Pyrrharctia genini	6	N
Richia aphronus	2	N
Saurita ochracea	4	N
Schizura tomaea	2	N
Simulium contrerense	3	N
Simulium dalmati	1	N
Somatolophia umbripennis	2	N
Sonorarctia nundar	10	N
Spurius depressifrons	18	N
Templemania millistriata	1	N
Thrassis fotas	2	N
Thrips simplex	1	N
Trichonotuloides glyptus	23	N
Xenodromius flohri	10	N
Yumtaax cameliae	3	N
Yumtaax jimenezi	5	N
Mammalia		
Cratogeomys fumosus	27	Y
Cratogeomys gymnurus	46	Y
Cratogeomys merriami	182	Y
Cratogeomys tylorhinus	108	Y
Megadontomys nelsoni	3	N
Nelsonia goldmani	13	N
Neotoma nelsoni	4	N
Neotomodon alstoni	467	Y
Peromyscus bullatus	25	Y
Reithrodontomys chrysopsis	106	N
Reithrodontomys hirsutus	17	N
Romerolagus diazi	116	Y
Sorex macrodon	23	N
Spermophilus perotensis	34	Y

Zygogeomys trichopus	37	Y
Plants		
Carex cochranei	1	N
Carex hermannii	14	N
Carex tuberculata	37	Y
Cirsium jorullense	77	Y
Cirsium lomatolepis	4	N
Coryphantha pycnacantha	6	N
Eleocharis subcancellata	5	N
Eryngium subacaule	47	Y
Gentiana perpusilla	4	N
Halenia pringlei	23	Y
Jaegeria bellidiflora	79	Y
Jaegeria pedunculata	70	N
Mammillaria backebergiana	2	N
Mammillaria discolor	24	Y
Mammillaria fittkaui	2	N
Mammillaria knippeliana	2	N
Mammillaria meyranii	4	N
Mammillaria nunezii	6	N
Mammillaria pringlei	6	N
Mammillaria rhodantha	49	Y
Mammillaria scrippsiana	12	N
Mammillaria spinosissima	6	N
Mammillaria wiesingeri	1	N
Psacalium tussilaginoides	46	Y
Quercus aculcingensis	1	N
Quercus diversifolia	66	Y
Quercus frutex	228	Y
Quercus leiophylla	22	N
Quercus pachucana	1	N
Quercus repanda	41	Y
Quercus subtriloba	3	N
Senecio helodes	28	N
Senecio jacalensis	13	N
Solidago paniculata	28	Y
Stenocactus obvallatus	10	N
Trichocoronis sessilifolia	24	Y
Xyris mexicana	42	Y

Table S1.2 Groups of species that belong to each chorotype with significant values higher than '0' according to the GS independence test.

Chorotypes	Sp.	CI	CII	CIII	CIV	CV	CVI	CVII	CVIII	CIX	CX	CXI	CXII
I	5	0.889	0.81	0.872	0.408	0.251	0.208	0.324	0	0.095	0	0.181	0
	117	0.914	0.848	0.551	0.426	0.08	0.138	0.289	0	0.066	0	0.189	0
	83	0.858	0.793	0.695	0.799	0.404	0.147	0.396	0	0.708	0.18	0.267	0
	10	0.902	0	0.105	0.064	0.087	0.083	0.187	0	0	0	0	0
	162	0.902	0	0.105	0.064	0.087	0.083	0.187	0	0	0	0	0
	129	0.882	0.117	0.361	0.876	0.357	0.093	0.286	0	0.83	0.215	0	0
II	11	0.419	0.949	0.693	0.316	0.27	0.08	0.232	0	0.069	0	0.325	0
	98	0.419	0.949	0.693	0.316	0.27	0.08	0.232	0	0.069	0	0.325	0
	21	0.552	0.92	0.696	0.907	0.444	0.093	0.274	0	0.128	0	0.311	0
	16	0.387	0.893	0.636	0.287	0.247	0.075	0.263	0	0.089	0	0.417	0
	128	0.4	0.918	0.383	0.254	0	0.141	0.235	0.917	0.137	0	0.197	0
	153	0.4	0.918	0.383	0.254	0	0.141	0.235	0.917	0.137	0	0.197	0
	133	0.418	0.936	0.402	0.267	0	0	0.175	0	0.073	0	0.206	0
III	22	0.422	0.91	0.935	0.301	0.366	0.155	0.287	0	0.099	0	0.311	0
	103	0.418	0.89	0.92	0.254	0.191	0.08	0.246	0	0.104	0	0.197	0
	134	0.418	0.89	0.92	0.254	0.191	0.08	0.246	0	0.104	0	0.197	0
	23	0.143	0	0.918	0	0.201	0.083	0.187	0	0.036	0	0	0
	78	0.877	0	0.885	0.061	0.275	0.161	0.246	0	0.035	0	0	0
	107	0.422	0.474	0.903	0.183	0.366	0.215	0.286	0	0.033	0	0.194	0
	135	0.531	0.852	0.899	0.833	0.508	0.217	0.331	0	0.147	0	0.287	0
	142	0.403	0.49	0.92	0.876	0.552	0.17	0.287	0	0.095	0	0.194	0
	159	0.403	0.49	0.92	0.876	0.552	0.17	0.287	0	0.095	0	0.194	0
IV	4	0.552	0.49	0.497	0.897	0.444	0.153	0.273	0	0.062	0	0.194	0
	151	0.908	0.117	0.452	0.897	0.266	0.153	0.289	0	0.062	0	0	0
	156	0.539	0.117	0.356	0.897	0.186	0.215	0.284	0	0.087	0.89	0	0
	84	0.275	0.129	0.291	0.961	0.205	0.083	0.175	0	0.068	0	0	0
	87	0.275	0.129	0.291	0.961	0.205	0.083	0.175	0	0.068	0	0	0
	99	0.275	0.129	0.291	0.961	0.205	0.083	0.175	0	0.068	0	0	0
	10	0.275	0.129	0.291	0.961	0.205	0.083	0.175	0	0.068	0	0	0

	4												
	113	0.275	0.129	0.291	0.961	0.205	0.083	0.175	0	0.068	0	0	0
	115	0.275	0.129	0.291	0.961	0.205	0.083	0.175	0	0.068	0	0	0
	125	0.275	0.129	0.291	0.961	0.205	0.083	0.175	0	0.068	0	0	0
	94	0.562	0.905	0.586	0.941	0.195	0.08	0.233	0	0.134	0	0.197	0
	112	0.562	0.905	0.586	0.941	0.195	0.08	0.233	0	0.134	0	0.197	0
	120	0.562	0.905	0.586	0.941	0.195	0.08	0.233	0	0.134	0	0.197	0
	114	0.539	0.864	0.56	0.904	0.186	0.077	0.271	0	0.128	0	0.863	0
V	15	0	0	0	0	0.864	0.413	0.236	0.143	0	0	0.107	0
	93	0.263	0.123	0.278	0.912	0.894	0.161	0.228	0	0.065	0	0.113	0
	152	0.252	0.117	0.265	0.868	0.863	0.262	0.284	0	0.062	0	0.107	0
	97	0.137	0	0.874	0	0.895	0.096	0.239	0	0.035	0	0.113	0
	108	0	0	0	0	0.916	0.083	0.149	0	0	0	0.118	0
	137	0	0	0	0	0.916	0.083	0.149	0	0	0	0.118	0
	89	0.74	0.416	0.478	0.103	0.818	0.61	0.348	0.125	0	0	0.265	0
	109	0.272	0.474	0.447	0.059	0.877	0.155	0.278	0	0.821	0.215	0.301	0
	123	0.236	0.453	0.86	0.056	0.869	0.288	0.307	0	0.032	0	0.288	0
VI	3	0.231	0	0.104	0.103	0.116	0.676	0.349	0.083	0	0	0.113	0.511
	6	0.1	0	0.628	0.044	0.681	0.643	0.412	0.107	0.045	0.66	0.08	0
	30	0	0	0	0	0.127	0.713	0.318	0	0	0	0.141	0
	67	0	0.138	0	0	0.185	0.712	0.427	0.506	0.054	0	0.124	0
	76	0	0	0	0	0.087	0.509	0.111	0	0	0	0	0
	86	0	0	0	0	0.171	0.808	0.257	0.131	0	0	0	0
	160	0.673	0.558	0.452	0.665	0.45	0.734	0.406	0.671	0.076	0	0.148	0
	140	0	0	0	0	0.095	0.576	0.239	0	0	0	0	0
VII	31	0.338	0.303	0.324	0.277	0.315	0.231	0.627	0.274	0.282	0.243	0.286	0
	33	0.404	0.311	0.376	0.341	0.205	0.132	0.586	0.149	0.36	0.327	0.071	0
	42	0.444	0.322	0.4	0.37	0.212	0.194	0.63	0	0.375	0.339	0.073	0
	50	0.602	0.538	0.589	0.521	0.337	0.231	0.569	0	0.511	0.482	0.249	0
	63	0.507	0.475	0.493	0.433	0.454	0.252	0.639	0.414	0.434	0.391	0.443	0
	64	0.473	0.442	0.459	0.396	0.422	0.229	0.641	0.382	0.4	0.082	0.411	0
	72	0.599	0	0.546	0.075	0.287	0.19	0.492	0.271	0.594	0.586	0	0
	38	0.209	0.182	0.197	0.165	0.201	0.291	0.669	0.162	0.17	0.142	0.161	0
	48	0.242	0.207	0.23	0.193	0.234	0.357	0.708	0.191	0.197	0.167	0.209	0
	43	0.366	0.321	0.352	0.302	0.356	0.465	0.723	0.258	0.301	0.266	0.294	0
	59	0.399	0.352	0.384	0.331	0.373	0.392	0.703	0.329	0.332	0.294	0.316	0
	57	0.322	0.279	0.308	0.262	0.312	0.42	0.711	0.259	0.263	0.229	0.255	0

	49	0.299	0.258	0.285	0.242	0.289	0.389	0.717	0.24	0.246	0.211	0.236	0
	65	0.347	0.303	0.333	0.285	0.337	0.442	0.727	0.282	0.287	0.25	0.277	0
	54	0.393	0.346	0.378	0.326	0.382	0.496	0.711	0.324	0.323	0.289	0.311	0
	55	0.322	0.287	0.308	0.262	0.312	0.431	0.722	0.259	0.263	0.229	0.276	0
	66	0.361	0.316	0.347	0.298	0.344	0.434	0.7	0.295	0.3	0.262	0.284	0
	46	0.286	0.259	0.272	0.23	0.264	0.316	0.687	0.228	0.233	0.201	0.239	0
	69	0.289	0.249	0.275	0.233	0.279	0.385	0.715	0.231	0.237	0.203	0.222	0
	44	0.299	0.272	0.285	0.242	0.277	0.314	0.692	0.24	0.248	0.211	0.251	0
	51	0.347	0.303	0.333	0.281	0.317	0.243	0.649	0.282	0.29	0.25	0.121	0
	41	0.282	0.268	0.282	0.235	0.28	0.422	0.687	0.202	0.078	0	0.263	0
	62	0.238	0.214	0.225	0.189	0.229	0.354	0.713	0.187	0.191	0.163	0.209	0
	60	0.25	0.225	0.241	0.2	0.241	0.375	0.671	0.167	0.2	0.173	0.221	0
	61	0.25	0.225	0.241	0.2	0.241	0.375	0.671	0.167	0.2	0.173	0.221	0
	56	0.266	0.247	0.269	0.221	0.264	0.403	0.628	0.189	0.068	0	0.248	0.179
	47	0.314	0.272	0.304	0.255	0.304	0.449	0.701	0.216	0.256	0.223	0.273	0.206
	34	0.197	0.176	0.186	0.155	0.183	0.24	0.603	0.129	0.158	0.133	0.171	0
	58	0.177	0.148	0.169	0.138	0.169	0.273	0.618	0.136	0.142	0.118	0.156	0.108
	35	0.085	0.133	0.099	0.048	0.204	0.369	0.52	0.167	0.018	0	0.204	0.158
	70	0	0.069	0.026	0	0.102	0.482	0.449	0.258	0.028	0	0.085	0.247
	71	0.102	0.139	0.102	0.12	0.087	0.252	0.466	0.103	0.118	0.024	0.141	0.097
	36	0.126	0.111	0.12	0.097	0.12	0.219	0.604	0.079	0.099	0.082	0.114	0.074
	37	0.126	0.111	0.12	0.097	0.12	0.217	0.621	0.095	0.1	0.082	0.114	0.074
	53	0.126	0.111	0.12	0.097	0.12	0.217	0.621	0.095	0.1	0.082	0.114	0.074
	68	0.134	0.121	0.135	0.109	0.132	0.239	0.612	0.09	0.037	0.084	0.133	0.084
	52	0.163	0.141	0.156	0.127	0.156	0.266	0.642	0.125	0.131	0.109	0.139	0.099
	40	0.083	0.072	0.078	0.062	0.078	0.153	0.517	0.05	0.064	0.052	0.077	0.047
	39	0.076	0.065	0.071	0.057	0.071	0.14	0.489	0.055	0.059	0.047	0.07	0.043
VIII	88	0	0.257	0	0	0.179	0.411	0.207	0.933	0.068	0	0	0
	91	0	0.257	0	0	0	0.141	0.215	0.966	0.094	0	0	0
	126	0	0.257	0	0	0	0.141	0.215	0.966	0.094	0	0	0
	155	0	0.257	0	0	0	0.141	0.215	0.966	0.094	0	0	0
	110	0	0.271	0	0	0	0.145	0.158	0.965	0.071	0	0	0
	158	0	0.271	0	0	0	0.145	0.158	0.965	0.071	0	0	0
IX	2	0.207	0	0	0	0.074	0	0.322	0.346	0.741	0.173	0	0
	24	0.207	0	0	0.048	0.074	0.066	0.321	0	0.736	0.743	0	0
	149	0.215	0.095	0	0	0.077	0	0.368	0	0.763	0.18	0	0
	95	0	0	0	0	0	0	0.178	0	0.229	0	0	0
	154	0.281	0.112	0.254	0.828	0.265	0.132	0.324	0	0.853	0.205	0	0
	19	0.4	0	0.874	0	0.286	0.08	0.245	0	0.866	0.225	0	0
	27	0.263	0	0	0	0.095	0	0.242	0	0.87	0.225	0	0
	92	0.562	0.89	0.383	0.254	0.095	0	0.242	0	0.87	0.225	0.197	0
	139	0.562	0.89	0.383	0.254	0.095	0	0.242	0	0.87	0.225	0.197	0

	100	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	102	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	105	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	106	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	111	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	118	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	119	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	122	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	124	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	148	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	163	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	164	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	165	0.275	0	0	0	0.1	0	0.178	0	0.907	0.237	0	0
	146	0.263	0	0	0	0.095	0	0.234	0	0.924	0.225	0	0
	167	0.263	0	0	0	0.095	0	0.234	0	0.924	0.225	0	0
	96	0.29	0.362	0.265	0.868	0.277	0.151	0.289	0.872	0.836	0.215	0	0
	138	0.263	0.257	0	0	0.095	0.141	0.245	0.917	0.87	0.225	0	0
X	9	0	0	0	0.064	0	0.083	0.169	0	0.028	0.987	0	0
	157	0	0	0	0.064	0	0.083	0.169	0	0.028	0.987	0	0
	166	0	0	0	0.064	0	0.083	0.169	0	0.028	0.987	0	0
	29	0.263	0	0	0.061	0.095	0.08	0.233	0	0.867	0.961	0	0
XI	14	0	0.107	0	0.056	0	0.181	0.211	0	0	0	0.875	0
	143	0.347	0.793	0.566	0.262	0.22	0.264	0.318	0	0.055	0	0.825	0
	101	0.382	0.864	0.365	0.25	0	0	0.247	0	0.066	0	0.895	0
	18	0.12	0.497	0.468	0.123	0.27	0.08	0.213	0	0	0	0.902	0
	116	0	0	0	0.064	0	0	0.146	0	0	0	0.919	0
	145	0	0	0	0.064	0	0	0.146	0	0	0	0.919	0
	150	0	0	0	0.061	0.871	0.08	0.2	0	0	0	0.887	0
	147	0	0	0	0.061	0	0	0.148	0	0	0	0.887	0

XII	90	0	0	0	0	0	0.064	0.038	0	0	0	0	1

Figures

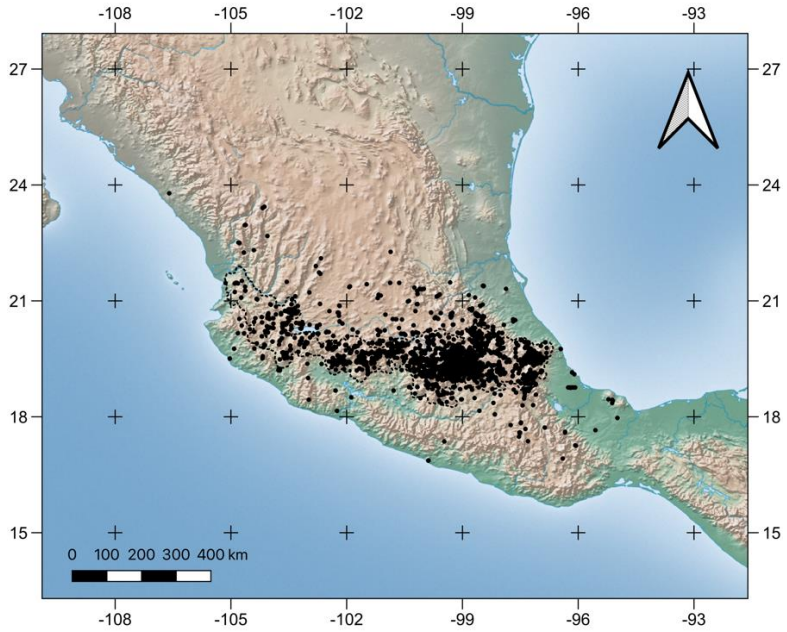

Figure S1.1 Data points of occurrence for 167 endemic species of the TVB.

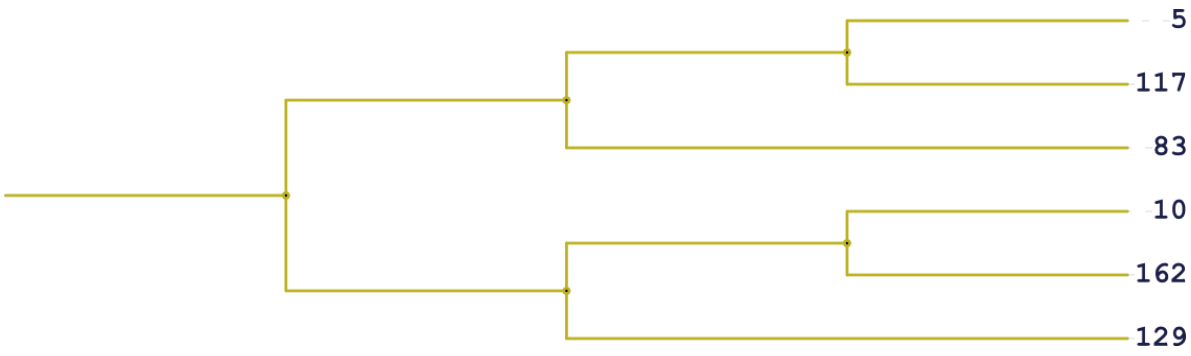

Figure S2.1 Sub-dendrogram of the Chorotype I, which includes one amphibian (species 83) *Chiropterotriton orculus*; three insects: (species 117) *Dactylopsylla megasoma*, (species 162) *Thrassis fotas*, (species 129) *Lejops mexicanus;* and two plants: (species 5) *Senecio jacalensis*, (species 10) *Mammillaria wiesingeri*.

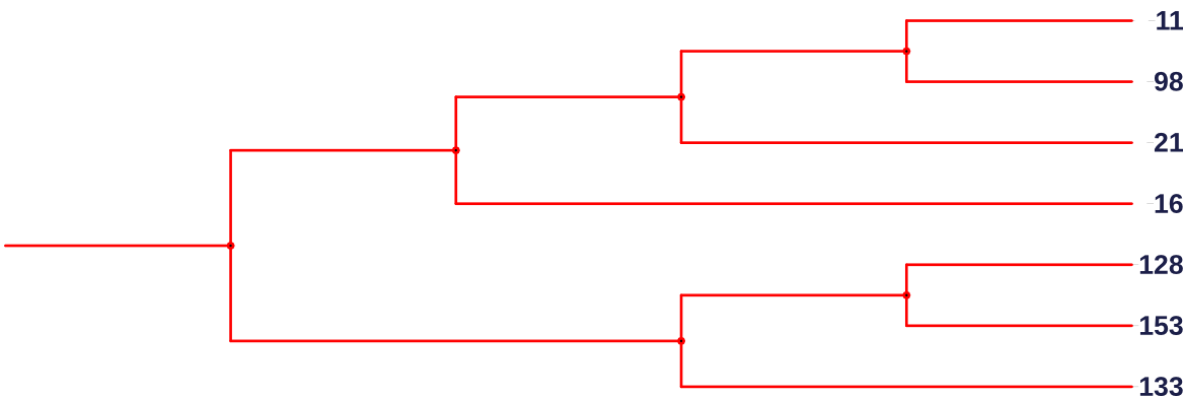

Figure S2.2 Sub-dendrogram of the Chorotype II, which includes four insects: (species 98) *Atopsyche boneti*, (species 128) *Hyssia plenipotentia*, (species 153) *Richia aphronus*, (species 133) *Metacrisiodes pua* and three plants: (species 11) *Mammillaria spinosissima*, (species 21) *Cirsium lomatolepis*, (species 16) *Mammillaria knippeliana*.

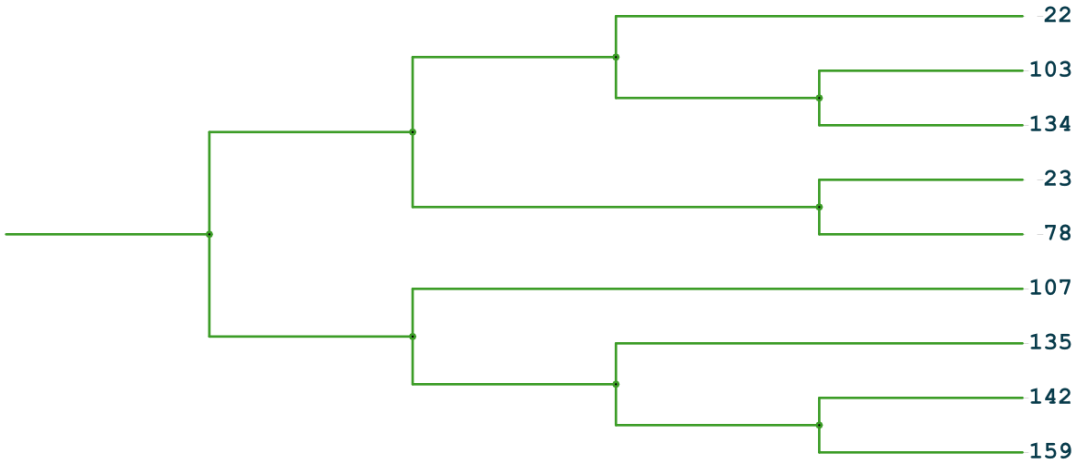

Figure S2.3 Sub-dendrogram of the Chorotype III, which includes one amphibian: (species 78) *Ambystoma leorae*, six insects: (species 103) *Cediopsylla tepolita*, (species 134) *Mexalictus mexicanus*, (species 107) *Chilicola mexicana*, (species 135) *Mydas annularis*, (species 142) *Orchopeas neotomae*, (species 159) *Sonorarctia nundar* and two plants: (species 22) *Carex hermannii*, (species 23) *Carex cochranei.*

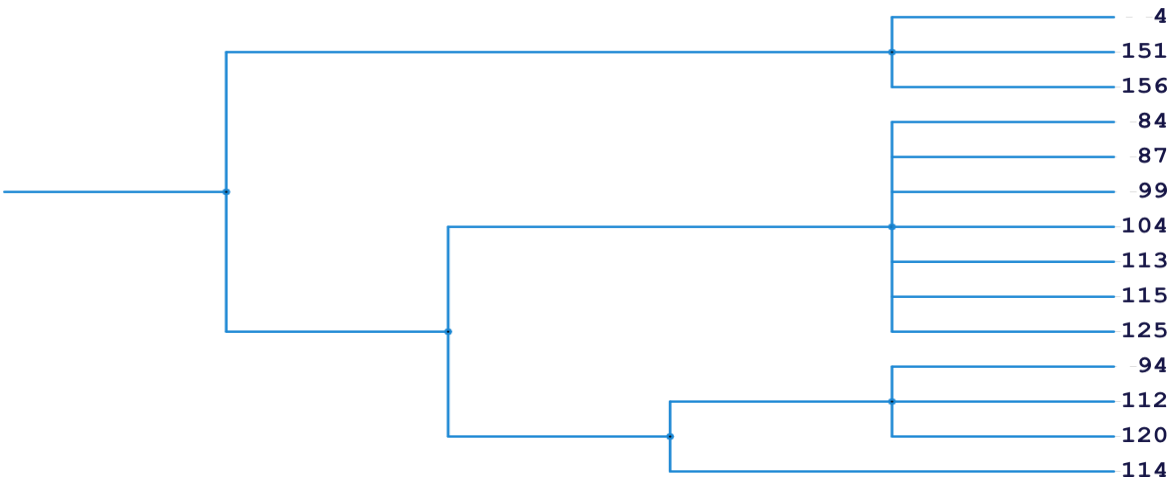

Figure S2.4 Sub-dendrogram of the Chorotype IV, which includes two amphibians: (species 84) *Eleutherodactylus grandis*, (species 87) *Lithobates tlaloci*, 11 insects: (species 151) *Pseudoprocris gracilis*, (species 156) *Simulium contrerense*, (species 99) *Aztecatopse amorimi*, (species 104) *Ceratophyllus gilvus*, (species 113) *Culicoides bakeri*, (species 115) *Culicoides dampfi*, (species 125) *Hormopsylla trux*, (species 94*) Andrena fulmínea*, (species 112) *Culicoides albomaculata*, (species 120) *Euchaetes psara*, (species 114) *Culicoides copiosus* and one plant: (species 4) *Stenocactus obvallatus.*

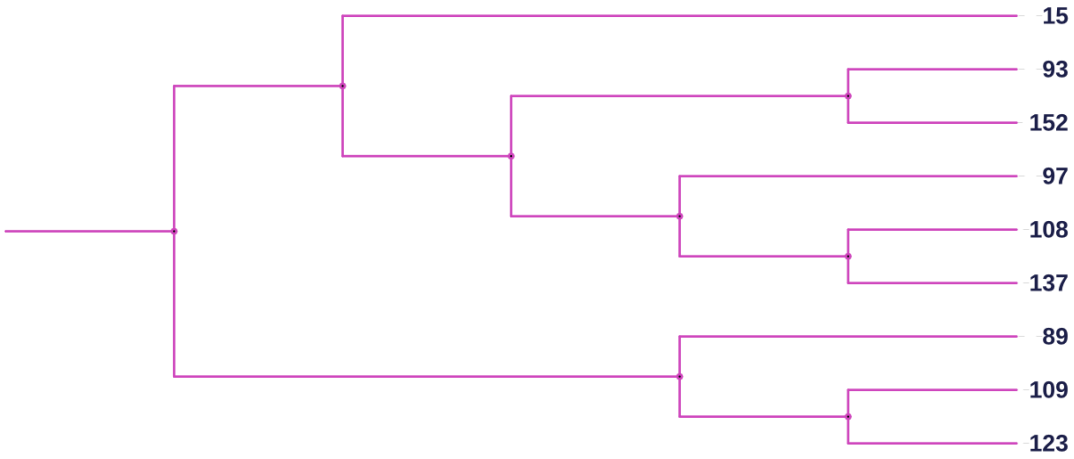

Figure S2.5 Sub-dendrogram of the Chorotype V, which includes one amphibian: (species 89) *Pseudoeurycea robertsi*, seven insects: (species 93) *Agylla idolon*, (species 152) *Pyrrharctia genini*, (species 97) *Aptinothrips rufus*, (species 108) *Chirothrips falsus*, (species 137) *Neohydatothrips tibialis*, (species 109) *Chirothrips orizaba*, (species 123) *Frankliniella simplex* and one plant: (species 15) *Mammillaria meyranii*.

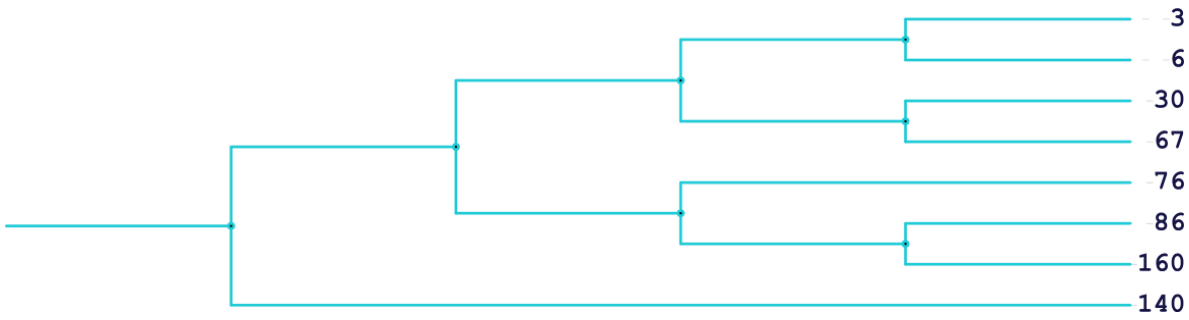

Figure S2.6 Sub-dendrogram of the chorotype VI, which includes three amphibians: (species 67) *Ambystoma ordinarium*, (species 76) *Ambystoma dumerilii*, (species 86*) Lithobates dunni*, two insects: (species 160) *Spurius depressifrons*, (species 140) *Onthophagus hippopotamus*, one mammal*:* (species 30) *Zygogeomys trichopus and* two plants: (species 3) *Jaegeria pedunculata*, (species 6) *Senecio helodes*.

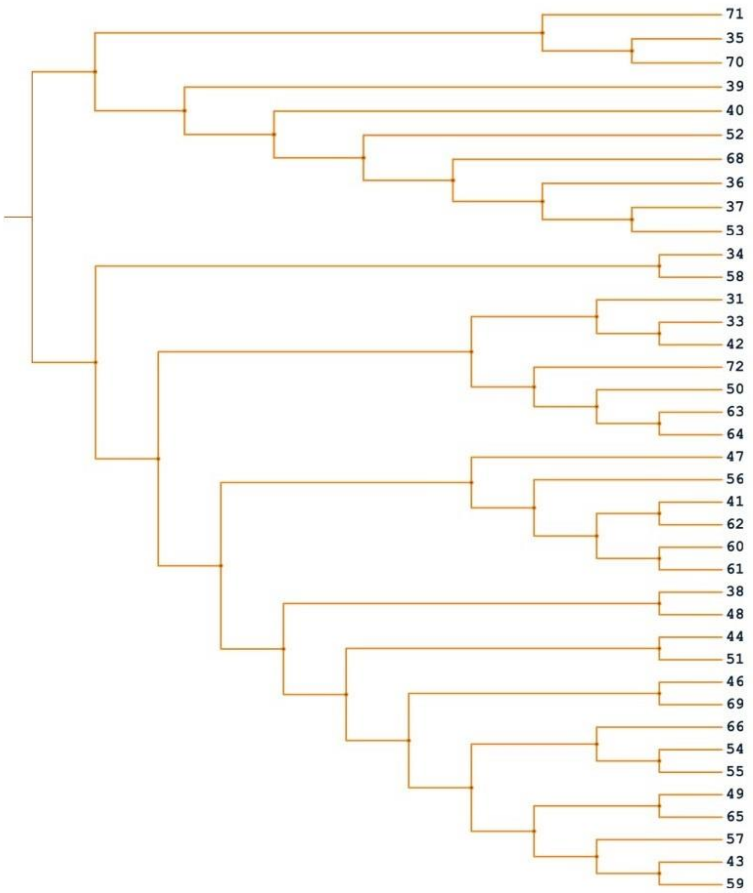

Figure S2.7 Sub-dendrogram of the Chorotype VII, which includes six amphibians: (species 72) *Pseudoeurycea gadovii*, (species 69) *Ambystoma velasci*, (species 56) *Eleutherodactylus maurus*, (species 70) *Ambystoma flavipiperatum*, (species 71) *Lithobates megapoda*, (species 68) *Ambystoma amblycephalum*, one bird: (species 66) *Picoides stricklandi* , 11 insects: (species 50) *Nyctosia poecilonotus*, (species 63) *Hypocrisias lisoma*, (species 64) *Holomelina polyphron*, (species 59) *Acronyctodes mexianaria*, (species 49) *Onthotrupes herbeus*, (species 65) *Halffterius rufoclavatus*, (species 62) *Coloradia euphrosyne*, (species 60) *Golofa globulicornis*, (species 61) *Dianthidium discophorum*, (species 47) *Plusaetis aztecus*, (species 58) *Calathus aztec*, seven mammals: (species 35) *Cratogeomys gymnurus*, (species 36) *Cratogeomys fumosus*, (species 37) *Cratogeomys tylorhinus*, (species 34) *Neotomodon alstoni*, (species 31) *Spermophilus perotensis*, (species 33) *Peromyscus bullatus*, (species 38) *Cratogeomys merriami* and 14 plants: (species 42) *Quercus repanda*, (species 48) *Carex tuberculata*, (species 43) *Quercus frutex*, (species 57) *Cirsium jorullense*, (species 54) *Halenia pringlei*, (species 55) *Eryngium subacaule*, (species 46) *Psacalium tussilaginoides*, (species 44) *Quercus diversifolia*, (species 51) *Mammillaria discolor*, (species 41) *Solidago paniculata*, (species 53) *Jaegeria bellidiflora*, (species 52) *Mammillaria rhodantha*, (species 40) *Trichocoronis sessilifolia*, (species 39) *Xyris mexicana*.

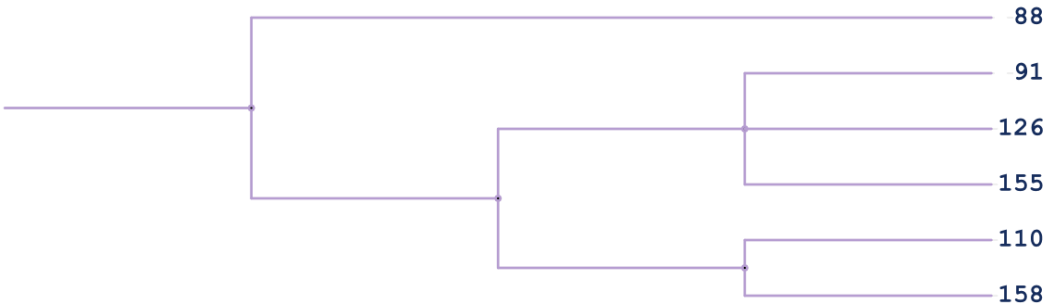

Figure S2.8 Sub-dendrogram of the Chorotype VIII, which includes one amphibian: (species 88) *Pseudoeurycea longicauda* and five insects: (species 91) *Aeschropteryx marciana*, (species 126) *Hydraecia arnymai*, (species 155) *Schizura tomaea*, (species 110) *Colletes bryanti*, (species 158) *Somatolophia umbripennis*.

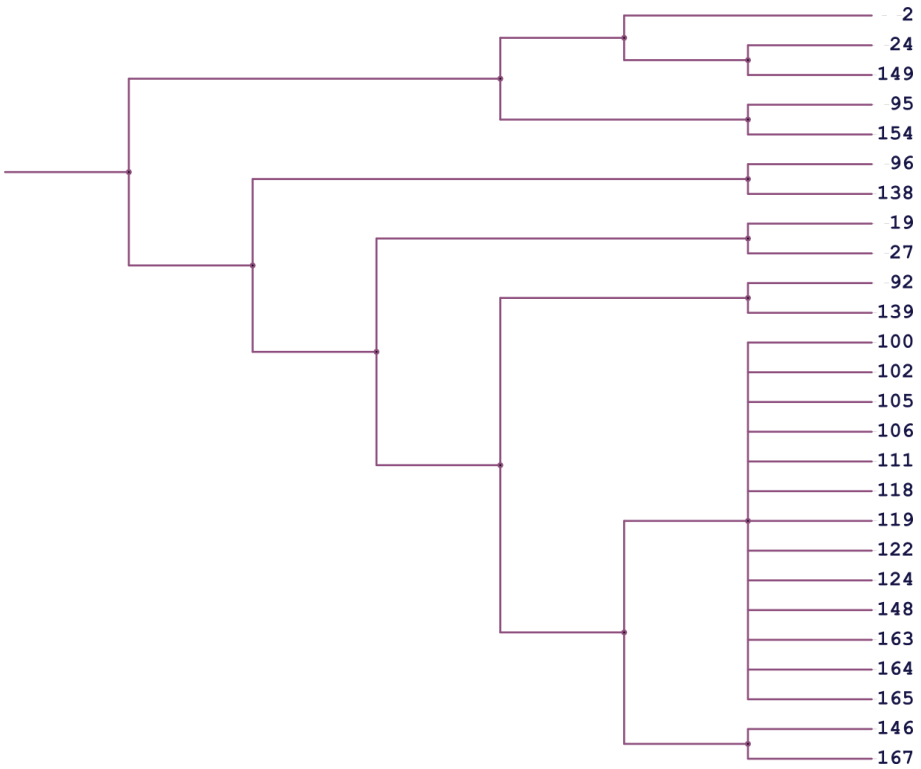

Figure S2.9 Sub-dendrogram of the Chorotype IX, which includes 22 insects: (species 149) *Proculejus brevis*, (species 95) *Aphodius ophistius*, (species 154) *Saurita ochracea*, (species 96) *Apicia remorta*, (species 138) *Nephelistis oomae*, (species 92) *Aeshna williamsoniana*, (species 139) *Olceclostera maya*, (species 100) *Bembidion submaculatum*, (species 102) *Calosoma laevigatum*, (species 105*)* *Chaetisothrips reticulatus*, (species 106) *Chaetisothrips striatus*, (species 111) *Copestylum alberlena*, (species 118) *Dyscolus machetellus*, (species 119*)* *Erpetogomphus boa*, (species 122) *Frankliniella chamulae*, (species 124) *Heliscus eclipticus*, (species 148) *Platynus machetellus*, (species 163) *Thrips simplex*, (species 164) *Trichonotuloides glyptus*, (species 165) *Xenodromius flohri*, (species 146) *Petrejoides jalapensis*, (species 167) *Yumtaax jimenezi*, two mammals: : (species 27) *Neotoma nelsoni*, (species 24) *Sorex macrodon* and two plants: (species 2) *Quercus leiophylla*, (species 19) *Gentiana perpusilla*.

Figure S2.10 Sub-dendrogram of the Chorotype X, which includes two insects: (species 157) *Simulium dalmati*, (species 166) *Yumtaax cameliae*, one mammal: (species 29) *Megadontomys nelson* and one plant: (species 9) *Quercus aculcingensis*.

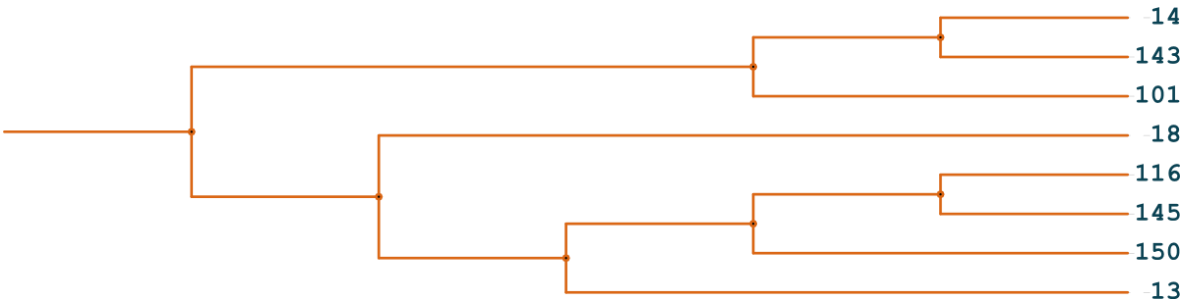

Figure S2.11 Sub-dendrogram of the Chorotype XI, which includes six insects: (species 143) *Osmia aliciae*, (species 101) *Bolla semitincta*, (species 116) *Culicoides wirthomyia*, (species 145) *Passalus mucronatus*, (species 150) *Pseudacanthus mexicanus*, (species 13) *Pheidole skwarrae* y dos plantas: (species 14) *Mammillaria nunezii*, (species 18) *Mammillaria backebergiana.*

Figure S2.12 Branch of the chorotype XII, including an insect: (species 90) *Aedes niveoscutum.*