

## Supplementary Information for

Climatic stability and genetic divergence in the tropical insular lizard *Anolis krugi*,  
the Puerto Rican “Lagartijo Jardinero de la Montaña”

Javier A. Rodríguez-Robles, Tereza Jezkova, and Manuel Leal

Molecular Ecology 19(9):1860–1876

DOI: 10.1111/j.1365-294X.2010.04616.x

**Supplementary Table S1** Locality abbreviation, sample number, field number, voucher number, GenBank accession numbers, specific locality, and coordinates of the specimens used in this study. Abbreviations: JAR, Javier A. Rodríguez Field Series; MVZ, Museum of Vertebrate Zoology, University of California, Berkeley.

Abbreviated Locality	Sample number	Field number	Voucher number; GenBank accession numbers for cytochrome <i>b</i> and ND2, respectively; Locality	Coordinates (latitude, longitude)
<i>Anolis gundlachi</i>				
—	1	JAR 1216	MVZ 250939; EU095729, EU095781; Puerto Rico: Municipality of Río Grande; Road 903, off Km. 19.5 on Road 186	18.32, -65.82
—	2	JAR 2066	MVZ 252252; EU095730, EU095782; Puerto Rico: Municipality of Lares; Km. 27.0 on Road 129	18.30, -66.87
<i>Anolis poncensis</i>				
—	—	JAR 2002	MVZ 252301; EU095744, EU095796; Puerto Rico: Municipality of Guánica; Bahía Ballena, Km. 9.1 on Road 333	17.96, -66.86
<i>Anolis pulchellus</i>				
—	—	JAR 1369	MVZ 251077; GU057619, GU057407; Puerto Rico: Municipality of Ponce; 19.6 km NW intersection between Highway 52 and Highway 10, along Highway 10	18.14, -66.67

## Supplementary Table S1 Continued.

## Ingroup

*Anolis krugi*

AB 1	1	JAR 1884	MVZ 251329; GU057787, GU057575; Puerto Rico: Municipality of Aguas Buenas; Barrio Bayamoncito, Km. 40.9 on Road 156	18.2355, -66.1746
	2	JAR 1885	MVZ 251330; GU057788, GU057576	
	3	JAR 1886	MVZ 251331; GU057789, GU057577	
	4	JAR 1887	MVZ 251332; GU057790, GU057578	
	5	JAR 1888	MVZ 251333; GU057791, GU057579	
	6	JAR 1889	MVZ 251334; GU057792, GU057580	
AB 2	7	JAR 947	MVZ 242884; GU057691, GU057479; Puerto Rico: Municipality of Aguas Buenas; Barrio Sumidero, 4.8 km S intersection between Road 156 and Road 794, along Road 794	18.2306, -66.1166
	8	JAR 0948	MVZ 242885; GU057692, GU057480	
	9	JAR 0949	MVZ 242886; GU057693, GU057481	
	10	JAR 0950	MVZ 242887; GU057694, GU057482	
	11	JAR 0951	MVZ 242888; GU057695, GU057483	
	12	JAR 0952	MVZ 242889; GU057696, GU057484	

Supplementary Table S1 Continued.

---

Ad 3	13	JAR 1397	MVZ 250941; GU057750, GU057538; Puerto Rico: Municipality of Adjuntas; Bosque Estatal de Guilarte, Barrio Guilarte, SE intersection between Road 131 and Road 518	18.1454, -66.7678
	14	JAR 1398	MVZ 250942; GU057751, GU057539	
	15	JAR 1399	MVZ 250943; GU057752, GU057540	
	16	JAR 1400	MVZ 250944; GU057753, GU057541	
	17	JAR 1401	MVZ 250945; GU057754, GU057542	
	18	JAR 1402	MVZ 250946; GU057755, GU057543	
	19	JAR 1403	MVZ 250947; GU057756, GU057544	
	20	JAR 1404	MVZ 250948; GU057757, GU057545	
	21	JAR 1405	MVZ 250949; GU057758, GU057546	
Ai 4	22	JAR 2194	MVZ 257580; GU057810, GU057598; Puerto Rico: Municipality of Aibonito; Km. 4.5 on Road 7722 (off Highway 1)	18.1134, -66.2277
Ar 5	23	JAR 0375	MVZ 235406; GU057648, GU057436; Puerto Rico: Municipality of Arecibo; Barrio Dominguito, Reserva Natural Mata de Plátano	18.4141, -66.7296
	24	JAR 0376	MVZ 235407; GU057649, GU057437	

Supplementary Table S1 Continued.

Ar 6	25	JAR 2088	MVZ 252273; GU057806, GU057594; Puerto Rico: Municipality of Arecibo; Bosque Estatal de Cambalache, Barrio Garrochales, Km. 6.6 on Road 682	18.4524, -66.5971
	26	JAR 2089	MVZ 252274; GU057807, GU057595	
Ba 7	27	JAR 2285	MVZ 257581; GU057821, GU057609; Puerto Rico: Municipality of Barceloneta; Barrio Quebrada, Km. 4.0 on Road 666	18.4242, -66.5386
	28	JAR 2286	MVZ 257582; GU057822, GU057610	
Ca 8	29	JAR 0214	MVZ 235389; GU057630, GU057418; Puerto Rico: Municipality of Cayey; Bosque Estatal de Carite, Km. 16.8-17.0 on Road 179	18.0955, -66.0800
	30	JAR 0215	MVZ 235390; GU057631, GU057419	
	31	JAR 0216	MVZ 235391; GU057632, GU057420	
	32	JAR 0217	MVZ 235392; GU057633, GU057421	
Ca 9	33	JAR 1355	MVZ 250950; GU057748, GU057536; Puerto Rico: Municipality of Cayey; Bosque Estatal de Carite, Km. 20.2 on Road 179	18.1130, -66.0683
	34	JAR 1356	MVZ 250951; GU057749, GU057537	
Ca 10	35	JAR 0222	MVZ 235393; GU057634, GU057422; Puerto Rico: Municipality of Cayey; Bosque Estatal de Carite, Km. 20.0 on Road 184	18.1038, -66.0460

Supplementary Table S1 Continued.

Cd 11	36	JAR 1786	MVZ 251335; GU057776, GU057564; Puerto Rico: Municipality of Cidra; Barrio Bayamón, Sector Certeneja, Km. 11.2 on Road 172	18.1841, -66.1405
	37	JAR 1787	MVZ 251336; GU057777, GU057565	
	38	JAR 1788	MVZ 251337; GU057778, GU057566	
	39	JAR 1789	MVZ 251338; GU057779, GU057567	
	40	JAR 1790	MVZ 251339; GU057780, GU057568	
Cg 12	41	JAR 2170	MVZ 257583; GU057808, GU057596; Puerto Rico: Municipality of Caguas; Barrio Borinquen, Sector Naranjito, Km. 1.6 on Road 766	18.1735, -66.0290
	42	JAR 2171	MVZ 257584; GU057809, GU057597	
Ci 13	43	JAR 0365	MVZ 235401; GU057643, GU057431; Puerto Rico: Municipality of Ciales; Barrio Cialitos, Sector Ciales Cruce, 2.4 km W intersection between Road 149 and Road 608, along Road 608	18.2433, -66.5310
	44	JAR 0366	MVZ 235402; GU057644, GU057432	
	45	JAR 0367	MVZ 235403; GU057645, GU057433	
	46	JAR 0368	MVZ 235404; GU057646, GU057434	
	47	JAR 0369	MVZ 235405; GU057647, GU057435	

Supplementary Table S1 Continued.

Cm 14	48	JAR 0762	MVZ 239049; GU057675, GU057463; Puerto Rico: Municipality of Comerío; Barrio Río Hondo II, Sector La Juncia, Km. 1.2 on Road 774	18.1941, -66.2520
	49	JAR 0765	MVZ 239052; GU057676, GU057464	
	50	JAR 0766	MVZ 239053; GU057677, GU057465	
	51	JAR 0767	MVZ 239054; GU057678, GU057466	
Co 15	52	JAR 1729	MVZ 251340; GU057769, GU057557; Puerto Rico: Municipality of Coamo; Barrio Pulguilla, Km. 7.4 on Road 723	18.1535, -66.3389
	53	JAR 1730	MVZ 251341; GU057770, GU057558	
	54	JAR 1734	MVZ 251345; GU057771, GU057559	
	55	JAR 1735	MVZ 251346; GU057772, GU057560	
	56	JAR 1737	MVZ 251348; GU057773, GU057561	
	57	JAR 1738	MVZ 251349; GU057774, GU057562	
Fl 16	58	JAR 1739	MVZ 251350; GU057775, GU057563	18.3455, -66.5719
	59	JAR 0742	MVZ 239055; GU057674, GU057462; Puerto Rico: Municipality of Florida; Sector La Maldonado, Km. 1.7 on Road 629	
Fl 17	60	JAR 2300	MVZ 257590; GU057828, GU057616; Puerto Rico: Municipality of Florida; ca. 1.9 km S intersection between Road 140 and Road 629, along Road 629	18.3448, -66.5710

Supplementary Table S1 Continued.

Fl 18	61	JAR 2291	MVZ 257586; GU057824, GU057612; Puerto Rico: Municipality of Florida; ca. 1.3 km W intersection between Road 667 and Road 665, along Road 665	18.4001, -66.5520
	62	JAR 2292	MVZ 257587; GU057825, GU057613	
	63	JAR 2293	MVZ 257588; GU057826, GU057614	
	64	JAR 2294	MVZ 257589; GU057827, GU057615	
Fl 19	65	JAR 2290	MVZ 257585; GU057823, GU057611; Puerto Rico: Municipality of Florida; ca. 1 km E intersection between Road 665 and Road 667, along Road 667	18.3921, -66.5450
Gu 20	66	JAR 0672	MVZ 235432; GU057672, GU057460; Puerto Rico: Municipality of Guayanilla; Barrio Jaguapasto, Km. 12.5 on Road 378	18.1241, -66.7927
	67	JAR 0674	MVZ 235434; GU057673, GU057461	
Gu 21	68	JAR 0650	MVZ 235428; GU057668, GU057456; Puerto Rico: Municipality of Guayanilla; Barrio Sierra Baja, Km. 3.2 on Road 378	18.0691, -66.7904
	69	JAR 0651	MVZ 235429; GU057669, GU057457	
	70	JAR 0652	MVZ 235430; GU057670, GU057458	
	71	JAR 0653	MVZ 235431; GU057671, GU057459	
Is 22	72	JAR 0277	MVZ 235400; GU057641, GU057429; Puerto Rico: Municipality of Isabela; Bosque Estatal de Guajataca, ca. Km. 11.3 on Road 446	18.4100, -66.9661

Supplementary Table S1 Continued.

Is 23	73	JAR 0266	MVZ 235399; GU057640, GU057428; Puerto Rico: Municipality of Isabela; Bosque Estatal de Guajataca, ca. Km. 11.5 on Road 446	18.4090, -66.9658
Is 24	74	JAR 1855	MVZ 251351; GU057781, GU057569; Puerto Rico: Municipality of Isabela; Bosque Estatal de Guajataca, ca. 15.1 km S intersection between Highway 2 and Road 446, along Road 446	18.4130, -66.9658
	75	JAR 1856	MVZ 251352; GU057782, GU057570	
	76	JAR 1857	MVZ 251353; GU057783, GU057571	
	77	JAR 1858	MVZ 251354; GU057784, GU057572	
	78	JAR 1859	MVZ 251355; GU057785, GU057573	
	79	JAR 1860	MVZ 251356; GU057786, GU057574	
JD 25	80	JAR 0924	MVZ 239056; GU057685, GU057473; Puerto Rico: Municipality of Juana Díaz; Barrio Guayabal, Sector Cuevas, Km. 5.6 on Road 552	18.0788, -66.4614
	81	JAR 0925	MVZ 239057; GU057686, GU057474	
	82	JAR 0926	MVZ 239058; GU057687, GU057475	
	83	JAR 0927	MVZ 239059; GU057688, GU057476	
	84	JAR 0928	MVZ 239060; GU057689, GU057477	
	85	JAR 0929	MVZ 239061; GU057690, GU057478	

Supplementary Table S1 Continued.

Ju 26	86	JAR 0812	MVZ 239062; GU057679, GU057467; Puerto Rico: Municipality of Juncos; Sector Hoyo Frío, Km. 2.7 on Road 947	18.2520, -65.8623
	87	JAR 0814	MVZ 239064; GU057680, GU057468	
	88	JAR 0816	MVZ 239066; GU057681, GU057469	
	89	JAR 0818	MVZ 239068; GU057682, GU057470	
	90	JAR 0820	MVZ 239070; GU057683, GU057471	
	91	JAR 0822	MVZ 239072; GU057684, GU057472	
	92	JAR 2262	MVZ 257591; GU057816, GU057604	
La 27	93	JAR 1309	MVZ 250952; GU057733, GU057521; Puerto Rico: Municipality of Lares; Km. 27.0 on Road 129	18.3010, -66.8718
	94	JAR 1310	MVZ 250953; GU057734, GU057522	
	95	JAR 1311	MVZ 250954; GU057735, GU057523	
	96	JAR 1312	MVZ 250955; GU057736, GU057524	
	97	JAR 1314	MVZ 250957; GU057737, GU057525	
	98	JAR 1315	MVZ 250958; GU057738, GU057526	
	99	JAR 1316	MVZ 250959; GU057739, GU057527	
	100	JAR 2069	MVZ 252275; GU057804, GU057592	

Supplementary Table S1 Continued.

LM 28	101	JAR 1280	MVZ 250960; GU057726, GU057514; Puerto Rico: Municipality of Las Marías; Barrio Furnias, Sector Santa Rosa, Km. 22.6 on Road 119	18.2473, -67.0049
	102	JAR 1281	MVZ 250961; GU057727, GU057515	
	103	JAR 1282	MVZ 250962; GU057728, GU057516	
	104	JAR 1283	MVZ 250963; GU057729, GU057517	
	105	JAR 1284	MVZ 250964; GU057730, GU057518	
	106	JAR 1287	MVZ 250967; GU057731, GU057519	
	107	JAR 1288	MVZ 250968; GU057732, GU057520	
Ma 29	108	JAR 0062	MVZ 226148; GU057620, GU057408; Puerto Rico: Municipality of Maricao; Bosque Estatal de Maricao, Km. 13.7 on Road 119	—
	109	JAR 0063	MVZ 226149; GU057621, GU057409	
Ma 30	110	JAR 2076	MVZ 252277; GU057805, GU057593; Puerto Rico: Municipality of Maricao; Bosque Estatal de Maricao, Km. 14.4 on Road 120	18.1471, -66.9819
Mb 31	111	JAR 1327	MVZ 250969; GU057740, GU057528; Puerto Rico: Municipality of Maunabo; Barrio California, Km. 107.8 on Highway 3	17.9913, -65.9064
	112	JAR 1328	MVZ 250970; GU057741, GU057529	
	113	JAR 1329	MVZ 250971; GU057742, GU057530	
	114	JAR 1330	MVZ 250972; GU057743, GU057531	
	115	JAR 1332	MVZ 250974; GU057744, GU057532	

## Supplementary Table S1 Continued.

---

	116	JAR 1335	MVZ 250977; GU057745, GU057533	
	117	JAR 1336	MVZ 250978; GU057746, GU057534	
	118	JAR 1337	MVZ 250979; GU057747, GU057535	
Mo 32	119	JAR 1262	MVZ 250980; GU057718, GU057506; Puerto Rico: Municipality of Moca; Barrio Capá, Km. 16.5 on Road 112	18.3760, -67.0392
	120	JAR 1263	MVZ 250981; GU057719, GU057507	
	121	JAR 1265	MVZ 250983; GU057720, GU057508	
	122	JAR 1267	MVZ 250985; GU057721, GU057509	
	123	JAR 1268	MVZ 250986; GU057722, GU057510	
	124	JAR 1270	MVZ 250988; GU057723, GU057511	
	125	JAR 1271	MVZ 250989; GU057724, GU057512	
	126	JAR 1272	MVZ 250990; GU057725, GU057513	
	127	JAR 2043	MVZ 252278; GU057800, GU057588	
	128	JAR 2044	MVZ 252279; GU057801, GU057589	
	129	JAR 2045	MVZ 252280; GU057802, GU057590	
	130	JAR 2046	MVZ 252281; GU057803, GU057591	
Mr 33	131	JAR 0145	MVZ 235378; GU057623, GU057411; Puerto Rico: Municipality of Morovis; Barrio Morovis Sur, Sector El Jobo, Km. 0.7 on Road 618	18.3093, -66.4026

Supplementary Table S1 Continued.

Mr 34	132	JAR 0129	MVZ 235377; GU057622, GU057410; Puerto Rico: Municipality of Morovis; Barrio Morovis Sur, Sector La Coroza, 0.5 km. along Road 6618	18.3167, -66.4188
Mr 35	133	JAR 2361	MVZ 257592; GU057830, GU057618; Puerto Rico: Municipality of Morovis; Barrio Río Grande, Km. 43.0 (interior) on Road 155	18.2902, -66.4141
My 36	134	JAR 0586	MVZ 235418; GU057658, GU057446; Puerto Rico: Municipality of Mayagüez; Barrio Juan Alonso, Km. 2.8 on Road 105	18.1948, -67.1124
	135	JAR 0587	MVZ 235419; GU057659, GU057447	
My 37	136	JAR 0577	MVZ 235414; GU057654, GU057442; Puerto Rico: Municipality of Mayagüez; Barrio Juan Alonso, Km. 4.9 on Road 105	18.1989, -67.0999
	137	JAR 0578	MVZ 235415; GU057655, GU057443	
	138	JAR 0579	MVZ 235416; GU057656, GU057444	
	139	JAR 0580	MVZ 235417; GU057657, GU057445	
Na 38	140	JAR 0995	MVZ 242890; GU057705, GU057493; Puerto Rico: Municipality of Naranjito; Barrio Guadiana, Km. 1.8 on Road 826	18.3119, -66.2196
Na 39	141	JAR 2334	MVZ 257593; GU057829, GU057617; Puerto Rico: Municipality of Naranjito; Barrio Lomas Vallés, Km. 10.7 on Road 164	18.3130, -66.2787

Supplementary Table S1 Continued.

Or 40	142	JAR 1057	MVZ 242892; GU057709, GU057497; Puerto Rico: Municipality of Orocovis; Barrio Ala de la Piedra, Sector Divisoria, Km. 28.6 on Road 143	18.1607, -66.5110
	143	JAR 1058	MVZ 242893; GU057710, GU057498	
	144	JAR 1059	MVZ 242894; GU057711, GU057499	
	145	JAR 1060	MVZ 242895; GU057712, GU057500	
	146	JAR 1061	MVZ 242896; GU057713, GU057501	
Or 41	147	JAR 1051	MVZ 242891; GU057708, GU057496; Puerto Rico: Municipality of Orocovis; Bosque Estatal de Toro Negro, Km. 26.1 on Road 143	18.1596, -66.5268
Po 42	148	JAR 1019	MVZ 242897; GU057706, GU057494; Puerto Rico: Municipality of Ponce; Camino Sonadora, ca. 400 m NE intersection between Highway 10 and Road 515	18.1204, -66.6553
	149	JAR 1020	MVZ 242898; GU057707, GU057495	
RG 43	150	JAR 1224	MVZ 250991; GU057714, GU057502; Puerto Rico: Municipality of Río Grande; Km. 2.6 on Road 191	18.3506, -65.7643
	151	JAR 1225	MVZ 250992; GU057715, GU057503	
	152	JAR 1226	MVZ 250993; GU057716, GU057504	
	153	JAR 1227	MVZ 250994; GU057717, GU057505	

## Supplementary Table S1 Continued.

---

SJ 44	154	JAR 0606	MVZ 235420; GU057660, GU057448; Puerto Rico: Municipality of San Juan; Río Piedras, area surrounding entrance of Botanical Garden, near Luis Muñoz Rivera Avenue (Highway 1)	18.3930, -66.0559
	155	JAR 0607	MVZ 235421; GU057661, GU057449	
	156	JAR 0609	MVZ 235422; GU057662, GU057450	
	157	JAR 0610	MVZ 235423; GU057663, GU057451	
SL 45	158	JAR 0970	MVZ 242899; GU057697, GU057485; Puerto Rico: Municipality of San Lorenzo; Barrio Cerro Gordo, Km. 9.8 on Road 916	18.1224, -65.9317
	159	JAR 0971	MVZ 242900; GU057698, GU057486	
	160	JAR 0972	MVZ 242901; GU057699, GU057487	
	161	JAR 0973	MVZ 242902; GU057700, GU057488	
	162	JAR 0974	MVZ 242903; GU057701, GU057489	
	163	JAR 0975	MVZ 242904; GU057702, GU057490	
	164	JAR 0976	MVZ 242905; GU057703, GU057491	
	165	JAR 0977	MVZ 242906; GU057704, GU057492	
SS 46	166	JAR 0623	MVZ 235424; GU057664, GU057452; Puerto Rico: Municipality of San Sebastián; Barrio Juncal, Sector La Cuadra, at the end of Road 438	18.3093, -66.9269
	167	JAR 0624	MVZ 235425; GU057665, GU057453	
	168	JAR 0625	MVZ 235426; GU057666, GU057454	
	169	JAR 0626	MVZ 235427; GU057667, GU057455	

Supplementary Table S1 Continued.

SS 47	170	JAR 1690	MVZ 251358; GU057765, GU057553; Puerto Rico: Municipality of San Sebastián; Km. 21.3 on Road 119	18.3789, -66.9288
	171	JAR 1691	MVZ 251359; GU057766, GU057554	
	172	JAR 1692	MVZ 251360; GU057767, GU057555	
	173	JAR 1693	MVZ 251361; GU057768, GU057556	
TA 48	174	JAR 0349	MVZ 235335; GU057642, GU057430; Puerto Rico: Municipality of Toa Alta; Haciendas del Dorado, F-6 Almendro Street	18.3740, -66.2840
Ut 49	175	JAR 1916	MVZ 251362; GU057793, GU057581; Puerto Rico: Municipality of Utuado; Barrio Río Abajo, Km. 61.8 on Road 123	18.3073, -66.6930
	176	JAR 1917	MVZ 251363; GU057794, GU057582	
	177	JAR 1918	MVZ 251364; GU057795, GU057583	
	178	JAR 1919	MVZ 251365; GU057796, GU057584	
	179	JAR 1920	MVZ 251366; GU057797, GU057585	
	180	JAR 1921	MVZ 251367; GU057798, GU057586	
Ut 50	181	JAR 0155	MVZ 235379; GU057624, GU057412; Puerto Rico: Municipality of Utuado; Bosque Estatal de Río Abajo, 6.1 km W intersection between Highway 10 and Road 621, along Road 621	18.3279, -66.7121
	182	JAR 0156	MVZ 235380; GU057625, GU057413	
	183	JAR 0158	MVZ 235382; GU057626, GU057414	

Supplementary Table S1 Continued.

VA 51	184	JAR 0550	MVZ 235408; GU057650, GU057438; Puerto Rico: Municipality of Vega Alta; Bosque Estatal de Vega, Km. 0.45 on Road 676	18.4143, -66.3358
	185	JAR 0551	MVZ 235409; GU057651, GU057439	
	186	JAR 0553	MVZ 235411; GU057652, GU057440	
	187	JAR 0554	MVZ 235412; GU057653, GU057441	
	188	JAR 2273	MVZ 257594; GU057817, GU057605	
	189	JAR 2274	MVZ 257595; GU057818, GU057606	
	190	JAR 2275	MVZ 257596; GU057819, GU057607	
	191	JAR 2276	MVZ 257597; GU057820, GU057608	
Yb 52	192	JAR 0232	MVZ 235394; GU057635, GU057423; Puerto Rico: Municipality of Yabucoa; Barrio Quebradillas, ca. Km. 11.8 (interior) on Road 900	18.0708, -65.9568
	193	JAR 0233	MVZ 235395; GU057636, GU057424	
	194	JAR 0234	MVZ 235396; GU057637, GU057425	
	195	JAR 0235	MVZ 235397; GU057638, GU057426	
	196	JAR 0236	MVZ 235398; GU057639, GU057427	
	197	JAR 2234	MVZ 257598; GU057811, GU057599	
	198	JAR 2235	MVZ 257599; GU057812, GU057600	
	199	JAR 2236	MVZ 257600; GU057813, GU057601	
	200	JAR 2237	MVZ 257601; GU057814, GU057602	
	201	JAR 2239	MVZ 257603; GU057815, GU057603	

## Supplementary Table S1 Continued.

---

Yc 53	202	JAR 0171	MVZ 235386; GU057627, GU057415; Puerto Rico: Municipality of Yauco; Bosque Estatal de Susúa, Barrio La Torre, Sector Cedro, Km. 2.1 (interior) on Road 368	18.0664, -66.9017
	203	JAR 0172	MVZ 235387; GU057628, GU057416	
	204	JAR 0173	MVZ 235388; GU057629, GU057417	
Yc 54	205	JAR 1426	MVZ 250995; GU057759, GU057547; Puerto Rico: Municipality of Yauco; Km. 10.4 on Road 128	18.0914, -66.8635
	206	JAR 1427	MVZ 250996; GU057760, GU057548	
	207	JAR 1428	MVZ 250997; GU057761, GU057549	
	208	JAR 1429	MVZ 250998; GU057762, GU057550	
	209	JAR 1430	MVZ 250999; GU057763, GU057551	
	210	JAR 1431	MVZ 251000; GU057764, GU057552	
	211	JAR 1950	MVZ 252284; GU057799, GU057587	

---

**Supplementary Table S2** Redundant and contracted haplotypes of *Anolis krugi*. The first column indicates all the haplotypes that were redundant with other mitochondrial types (second column) and/or that represent an ancestral haplotype to which one or more other haplotypes were contracted using the star contraction method (see Materials and Methods). Haplotypes in bold appear on the maximum likelihood tree (Fig. 2). The third column indicates the satellite haplotypes that were contracted to the ancestral mitochondrial type listed on the first column.

Haplotype	Redundant haplotypes	Contracted haplotypes
<b>AB 2-7</b>	SL 45-160	—
<b>AB 2-8</b>	Ca 9-34, Ju 26-86, Mb 31-111, Mb 31-112, Mb 31-113, SL 45-165, Yb 52-193	AB 1-1, AB 1-2, AB 1-4, AB 1-6, AB 2-9, AB 2-10, AB 2-11, AB 2-12, Cd 11-36, Cg 12-42, Ju 26-87, Ju 26-89, Ju 26-90, Ju 26-91, Ju 26-92, Mb 31-114, Mb 31-118, SJ 44-154, SJ 44-155, SJ 44-157, SL 45-158, SL 45-159, SL 45-161, Yb 52-192, Yb 52-196
Ad 3-14	Ad 3-18	—

Supplementary Table S2 Continued.

Haplotype	Redundant haplotypes	Contracted haplotypes
<b>Ad 3-15</b>	Ad 3-20	—
<b>Ca 8-29</b>	SL 45-163, Yb 52-201	—
<b>Cd 11-39</b>	—	Cd 11-37, Cd 11-40
<b>Co 15-57</b>	Fl 17-60, Fl 18-62	Ba 7-27, Ci 13-43, Ci 13-46, Ci 13-47, Co 15-58, JD 25-81, JD 25-82, Or 40-146, Or 41-147
<b>Gu 21-68</b>	Gu 21-70	—
<b>Is 23-73</b>	Is 24-77	—
Is 24-75	Is 24-79	—
<b>La 27-94</b>	La 27-95, La 27-96, La 27-97, La 27-98, LM 28-101, LM 28-103, LM 28-106, LM 28-107	LM 28-102, LM 28-104, Ma 30-110, SS 46-167, SS 46-168, SS 47-171, Ut 49-177, Ut 49-178, Ut 50-181, Ut 50-182, Ut 50-183

## Supplementary Table S2 Continued.

Haplotype	Redundant haplotypes	Contracted haplotypes
La 27-99	La 27-100	—
Mb 31-114	—	Mb 31-115
<b>Mb 31-117</b>	Yb 52-200	—
Mo 32-120	Mo 32-121, Mo 32-123, Mo 32-126	—
<b>Mo 32-127</b>	Mo 32-128	—
SJ 44-154	SJ 44-156	—
SL 45-158	SL 45-164	—
SS 46-167	—	La 27-93, La 27-99
VA 51-185	VA 51-189	—
VA 51-188	VA 51-190	—
Yb 52-196	—	Ju 26-88

Supplementary Table S2 Continued.

Haplotype	Redundant haplotypes	Contracted haplotypes
<b>Yc 53-202</b>	Yc 53-203, Yc 53-204	—
<b>Vector 1</b>	—	Cd 11-38, Cg 12-41, Yb 52-194
<b>Vector 2</b>	—	Na 39-141, TA 48-174, VA 51-185
<b>Vector 3</b>	—	Ci 13-45, Co 15-55
<b>Vector 4</b>	—	Co 15-52, Co 15-53, Fl 16-59, VA 51-186, VA 51-187
<b>Vector 5</b>	—	Is 24-74, Is 24-75, Is 24-76, Is 24-78, Mo 32-119, Mo 32-120, Mo 32-122, Mo 32-124, Mo 32-125, Mo 32-130, SS 46-169
<b>Vector 6</b>	—	Ad 3-14, Ad 3-21, Gu 21-69, Gu 21-71, Yc 54-206, Yc 54-211
<b>Vector 7</b>	—	VA 51-188, VA 51-191

### Effect of sample size on the performance of SAMOVA

We explored patterns of genetic divergence among sampling localities of *Anolis krugi* using the program SAMOVA 1.0 (Spatial Analysis of Molecular Variance; Dupanloup *et al.* 2002; <http://web.unife.it/progetti/genetica/Isabelle/samova.html>). Because SAMOVA uses  $F_{ST}$  statistics (which measure genetic differentiation among subpopulations), its performance is negatively affected by small sample sizes (i.e. small number of individuals per population; I. Dupanloup, pers. comm.). To determine how small sample size affects the performance of SAMOVA, we performed a sensitivity study by conducting the analyses five times, with minimum sample sizes per population of 4, 5, 6, 7, and 8 individuals.

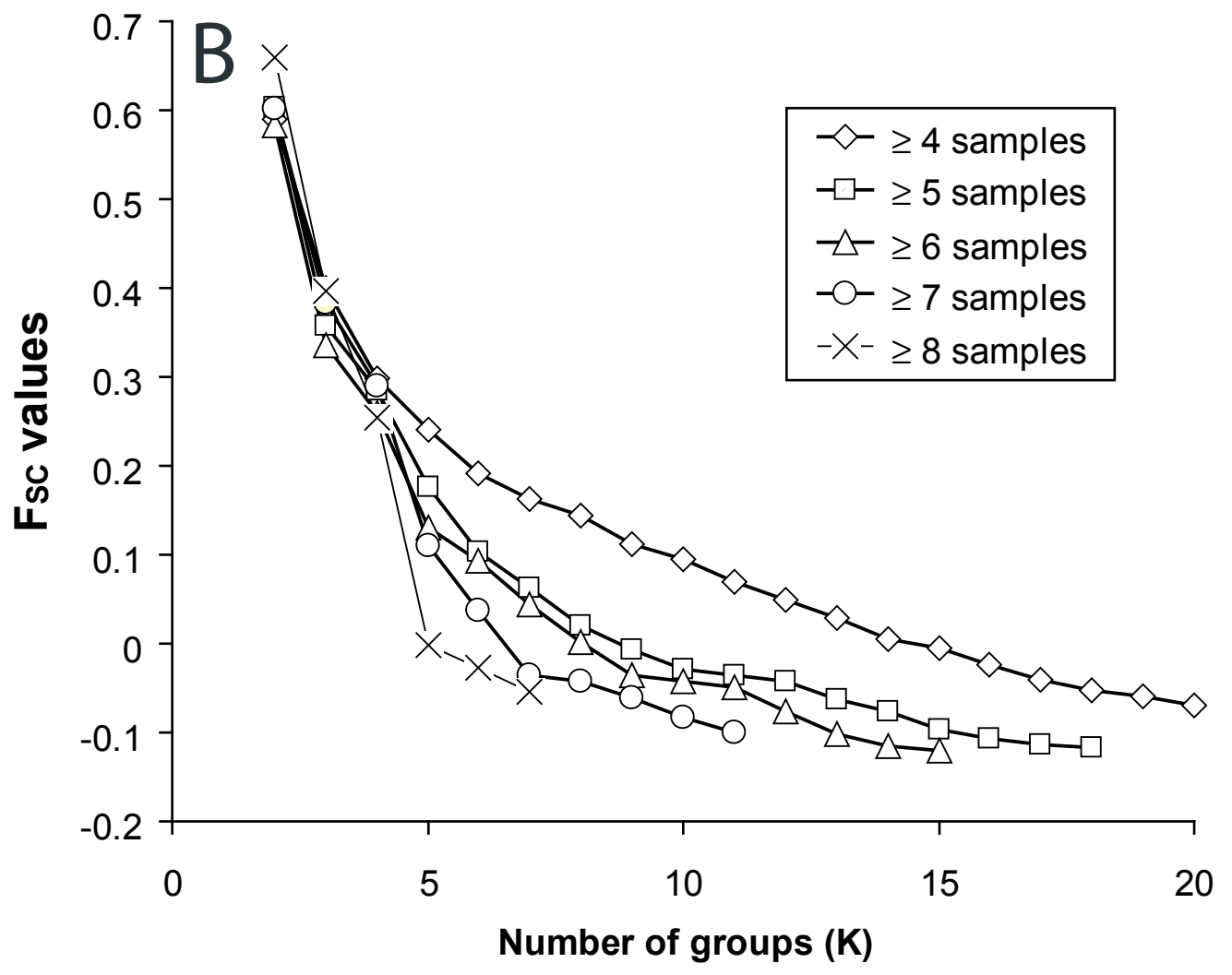
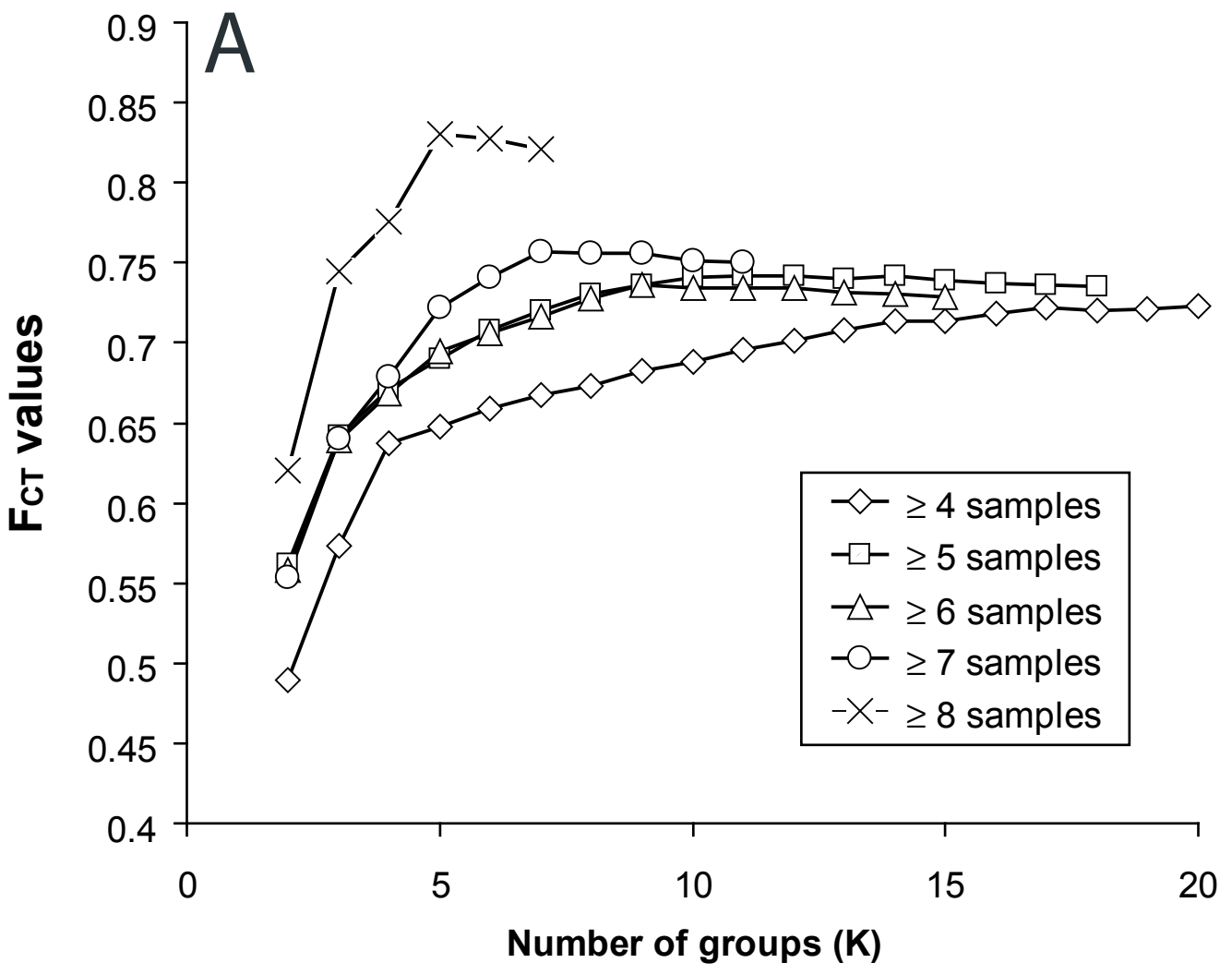
Figure S1 illustrates the effect of minimum number of samples per locality on  $F_{CT}$  and  $F_{SC}$  values. For each value of  $K$ , a smaller minimum sample size ( $n$ ) resulted in lower  $F_{CT}$  values and higher  $F_{SC}$  values, whereas larger minimum sample sizes resulted in higher  $F_{CT}$  and lower  $F_{SC}$  values. We anticipated these results, because with increasing minimum sample sizes, more sampling localities (i.e. populations) are excluded from the analysis, and consequently the geographic and (often) the genetic distances among the remaining populations increase. Also as expected, the number of groups ( $K$ ) at which  $F_{CT}$  values (degree of differentiation among groups) peaked approximately corresponded to  $F_{SC}$  values of zero.

The shapes of the curves of the  $F_{CT}$  and  $F_{SC}$  plots for five, six, and seven samples per locality were similar (Fig. S1). We determined by visual inspection of these plots that five individuals per population was a threshold that allowed us to present conservative results, without having to exclude an excessive number of populations. We emphasize that this threshold should not be extrapolated to other datasets. Instead, we recommend that when genetic surveys include populations with a

relatively small number of individuals, researchers empirically assess how  $F_{CT}$  and  $F_{SC}$  values vary as a function of sample size, and rely on those findings to determine the threshold that will allow them to include in the SAMOVA analyses as many populations as possible, without sacrificing too much accuracy.

Additionally, in this study we used  $F_{SC}$  values (indicators of genetic differentiation among populations within groups) as an alternative to  $F_{CT}$  values (indicators of differentiation among groups) to identify the number of maximally differentiated groups of populations of *Anolis krugi*. Traditionally, researchers have used  $F_{CT}$  values as indicators of maximum differentiation, with the number of maximally differentiated groups corresponding to the highest  $F_{CT}$  value. However, it is often difficult to determine precisely when  $F_{CT}$  values peak. Our analyses suggest that  $F_{SC}$  values can be used to identify more objectively the number of maximally differentiated groups in a species. The  $F_{SC}$  values approach zero as the genetic variation within populations approximates the degree of variation within groups. When  $F_{SC}$  values become negative, the variation within populations is larger than the variation within groups (which can occur when populations within a group share haplotypes (e.g. the Eastern phylogroup) or when the populations that compose a group have haplotypes belonging to two or more divergent clusters). Consequently, when  $F_{SC}$  values equal zero, additional splitting of populations is undesirable, and therefore the number of maximally differentiated populations has been identified.

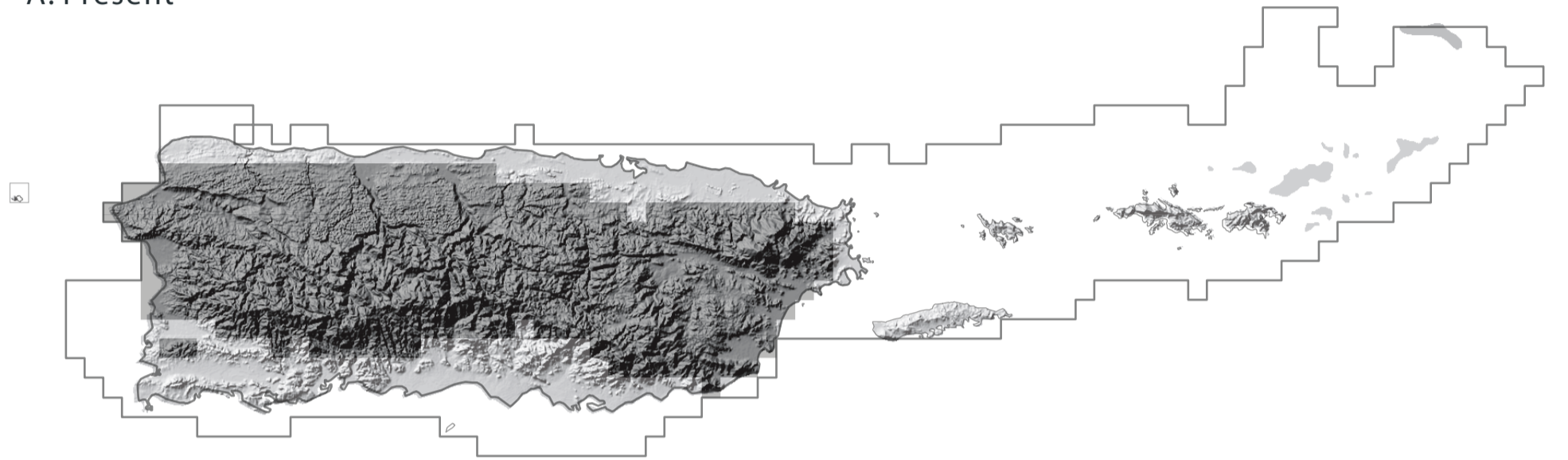
**Fig. S1** Effect of sample size (i.e. minimum number of individuals per population) on (A)  $F_{CT}$  values (indicators of the proportion of total genetic variance due to differences among groups of populations), and on (B)  $F_{SC}$  values (indicators of differentiation among populations within groups).



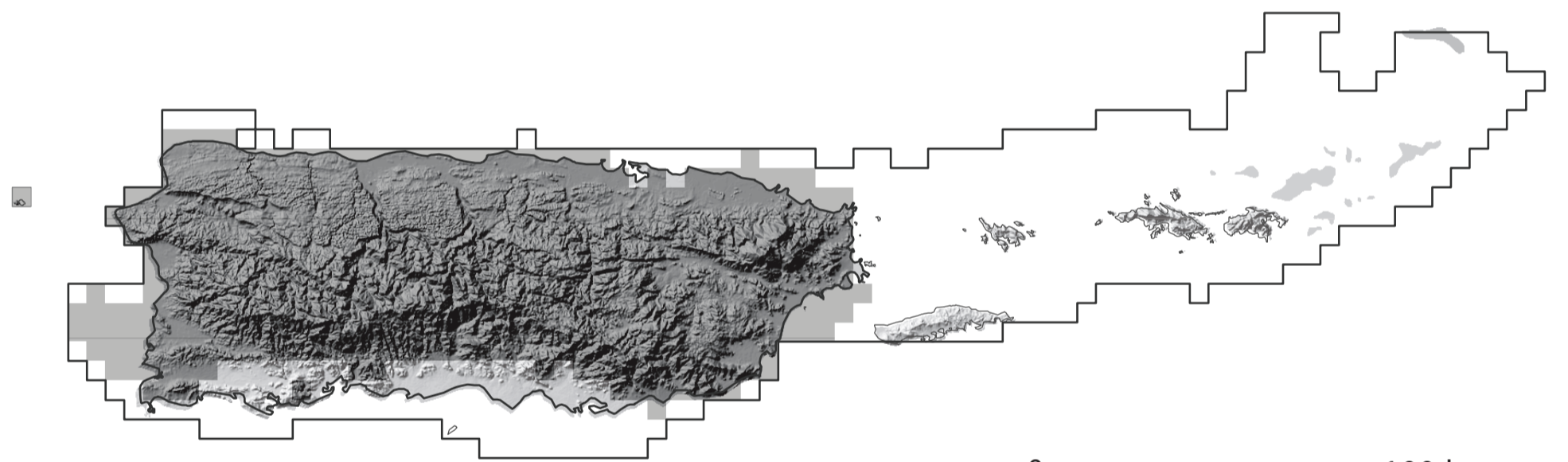
**Fig. S2** Ecological niche models for *Anolis krugi* for the (A) current climatic conditions (30 sec resolution) in Puerto Rico, and for the climatic conditions during the last glacial maximum (2.5 min resolution) estimated using the (B) CCSM and (C) MIROC models. The current shoreline of Puerto Rico and adjacent islands is depicted in light grey, whereas the approximate shoreline of the Puerto Rican Bank during the last glacial maximum (adjusted to the resolution of 2.5 min) is shown in black. The shading represents habitat modeled as suitable for *A. krugi*.



A. Present



B. Last Glacial Maximum (CCSM)



C. Last Glacial Maximum (MIROC)

0 100 km