

Appendix S2 – Museum records and locality data used in species distribution modeling

While some museum records contained latitude and longitude coordinates, many did not. For records where coordinates were missing, collection localities were georeferenced with the help of Global Gazetteer version 2.1, (<http://fallingrain.com/world/>, last accessed March 17, 2009). Because illegal collection threatens the persistence of the few remaining *A. varius* populations, geographic coordinates and detailed locality descriptions for the nine focal *A. varius* populations (see Fig. 1 in text) have been intentionally omitted so as to discourage the removal of frogs from these sites. These data are available from the author upon request.

The following museum abbreviations were used in Table S2:

AMNH:	American Museum of Natural History
CAS:	California Academy of Sciences
FMNH:	Field Museum
FLMNH:	Florida Museum of Natural History
KUNHM:	University of Kansas Natural History Museum
LSU:	Louisiana State University Museum of Natural Science
LACM:	Natural History Museum of Los Angeles County
MCZ:	Harvard University's Museum of Comparative Zoology
MVZ:	University of California, Berkeley's Museum of Vertebrate Zoology
UMMZ:	University of Michigan Museum of Zoology
USNM:	National Museum of Natural History

Table S2

Museum	Specimen	Country	Province	Locality	Latitude	Longitude
AMNH	7447	Costa Rica	Alajuela	American Cinchona Plantation, Isla Bonita, SW slope Volcan Poas, ca 6000'	10.133	-84.233
AMNH	94809	Costa Rica	Alajuela	Near town of Fortuna on slope of Volcan Arenal	10.483	-84.650
AMNH	107922	Costa Rica	Alajuela	ca Sarchi	10.083	-84.350
FMNH	178270	Costa Rica	Alajuela	Cariblanco	10.417	-84.417
KUNHM	KU100607	Costa Rica	Alajuela	Cinchona, Isla Bonita	10.133	-84.233
AMNH	124102	Costa Rica	Alajuela/Puntarenas	Above Monteverde along Atlantic-Pacific Divide CA 1600 M	10.303	-84.787
AMNH	162520	Costa Rica	Alajuela	Itiquis	10.050	-84.217
AMNH	162635	Costa Rica	Cartago	Coliblanco	9.950	-83.816
CAS	156109	Costa Rica	Cartago	Ujarras	10.100	-83.433
FLMNH	16344	Costa Rica	Cartago	Tapanti	9.767	-83.767
FLMNH	104328	Costa Rica	Cartago	S slope Volcan Irazu, Quebrada Onda	9.967	-83.833
FLMNH	104334	Costa Rica	Cartago	ca Pacayas	9.800	-84.050
FLMNH	104335	Costa Rica	Cartago	Guabata	9.800	-83.817
FMNH	2536	Costa Rica	Cartago	Moravia de Chirripo	9.850	-83.433
FMNH	2645	Costa Rica	Cartago	Navarro	9.817	-83.880
FMNH	153633	Costa Rica	Cartago	Tres Rios	9.900	-83.983
KUNHM	KU103562	Costa Rica	Cartago	Quebrada Platanillo, 5.7 km E Moravia de Chirripo	9.850	-83.300
MVZ	206408	Costa Rica	Cartago	Turrialba	9.900	-83.683
FMNH	173964	Costa Rica	Guanacaste	La Palma	10.533	-85.017
KUNHM	KU103563	Costa Rica	Heredia	Trail from Cascante Camp to "1000 M" Camp, Zona Protectora La Selva, Braulio Carrillo National Park	10.333	-84.067
KUNHM	KU103564	Costa Rica	Heredia	Trail from "1000 M" Camp to "1500 M" Camp, Braulio Carrillo National Park	10.282	-84.098
KUNHM	KU110018	Costa Rica	Heredia	1500 M Camp, Braulio Carrillo National Park	10.240	-84.113
KUNHM	KU116006	Costa Rica	Heredia	Trail from "1000 M" Camp to "1500 M" Camp, Braulio Carrillo National Park	10.282	-84.098
KUNHM	KU153442	Costa Rica	Heredia	Rio Peje drainage, 10 km WSW Puerto Viejo de Sarapiquí	10.420	-84.150
KUNHM	KU30447	Costa Rica	Heredia	Guacimo River, 10 km WSW Puerto Viejo de Sarapiquí	10.420	-84.150
KUNHM	KU30450	Costa Rica	Heredia	10 km WSW Puerto Viejo de Sarapiquí	10.420	-84.150
KUNHM	KU32863	Costa Rica	Limon/Puntarenas	Valle del Silencio, between Kamuk and Echandi Massifs	9.117	-83.133
AMNH	109222	Costa Rica	Puntarenas	Aguacate Mountains	9.900	-83.683
KUNHM	KU32880	Costa Rica	Puntarenas	Monteverde Cloud Forest Reserve	10.300	-84.817

Museum	Specimen	Country	Province	Locality	Latitude	Longitude
KUNHM	KU32886	Costa Rica	Puntarenas	Dirt road between Los Alturas and Las Tablas near Rio Coton	8.966	-83.083
KUNHM	KU32889	Costa Rica	Puntarenas	Rock in Middle of Rio Coton near Sawmill, Las Alturas	8.833	-82.967
KUNHM	KU32894	Costa Rica	Puntarenas	Finca Mellizas, 55km. NE Golfito, 14km ENE La Union, nr Panama Border, Puntarenas	8.833	-82.867
KUNHM	KU77013	Costa Rica	Puntarenas	Finca Las Cruces, 4.5 mi W of San Vito	8.917	-82.700
KUNHM	KU77014	Costa Rica	Puntarenas	Rio Lagarto, ca. 3.0 km. S of Santa Elena	10.283	-84.817
KUNHM	KU94604	Costa Rica	Puntarenas	Rio Coton, Zeledon Place	9.383	-83.700
KUNHM	KU94639	Costa Rica	Puntarenas	2.5 km S, 3.7 km E Monteverde	10.290	-84.740
KUNHM	KU94642	Costa Rica	Puntarenas	Palmar	10.017	-84.767
KUNHM	KU94644	Costa Rica	Puntarenas	San Vito de Java, 6 km (by road) S of, Finca Las Cruces, OTS Field Station	8.833	-82.967
KUNHM	KU94645	Costa Rica	Puntarenas	0.5 km from Pension Quetzal, 1570M	10.300	-84.817
LACM	41791	Costa Rica	Puntarenas	Rio Damitas, 14 km N Ouegos	9.500	-84.233
LSU	8734	Costa Rica	Puntarenas	Finca Helechales	9.057	-83.082
MVZ	196017	Costa Rica	Puntarenas	Monte Verde	10.100	-83.433
AMNH	50968	Costa Rica	San Jose	2000 FT EL GENERAL	9.367	-83.667
AMNH	124083	Costa Rica	San Jose	Rio Vrillo (= Rio Virilla), near San Jose	8.776	-82.209
KUNHM	KU32893	Costa Rica	San Jose	La Hondura	10.067	-84.167
LSU	10683	Costa Rica	San Jose	San Ignacco de Acosta	9.800	-84.167
LSU	10684	Costa Rica	San Jose	15 km N San Isidro del General	9.450	-83.717
MCZ	7943	Costa Rica	San Jose	20 km SW San Isidro del General	9.300	-83.783
MCZ	11781	Costa Rica	San Jose	San Isidro del General	9.383	-83.700
MCZ	16023	Costa Rica	San Jose	Bajo La Hondura	10.067	-84.167
MVZ	129666	Costa Rica	San Jose	San Isidro del General, 12.3 mi SW of, on Dominical Road (Highway 22)	9.965	-84.191
MVZ	149729	Costa Rica	San Jose	San Isidro del General, 11 mi SW of, on Dominical Road (Highway 22)	10.333	-84.750
MVZ	193570	Costa Rica	San Jose	Rio Jorco Desamparados, junction with Rio Jorco near junction with Rio Tiribi	9.150	-82.933
MVZ	206409	Costa Rica	San Jose	'La Mina', Rio Torres	10.200	-84.000
MVZ	206410	Panama	Bocas del Toro	N slope Cerro Pando	10.200	-84.000
MVZ	206411	Panama	Bocas del Toro	NE Boquete Cerro Pate Macho Trail to Finca Serrano along trib. Of Rio Culebra 3800 Ft.	10.200	-84.000
MVZ	217533	Panama	Bocas del Toro	Boquete Trail, Bocas del Toro, Panama	10.383	-84.050
MVZ	217534	Panama	Bocas del Toro	E slopes Cerro Colorado nr continental divide	10.367	-84.033

Museum	Specimen	Country	Province	Locality	Latitude	Longitude
MVZ	217538	Panama	Bocas del Toro	Southwestern headwaters Río Guabo	10.432	-84.101
MVZ	223277	Panama	Bocas del Toro/Chiriqui	Cerro Bollo, 3.5 km E of Escopeta Camp	8.951	-82.841
MVZ	223280	Panama	Chiriqui	16 km NNW El Volcan	8.931	-82.841
UMMZ	72020	Panama	Chiriqui	S slope Cerro Santa Catalina, ca 8 km NW El Volcan	8.917	-82.700
UMMZ	129025	Panama	Chiriqui	El Volcan	8.767	-82.633
UMMZ	145882	Panama	Chiriqui	9 km NW El Volcan	8.933	-82.717
UMMZ	147685	Panama	Chiriqui	Finca Ojo de Agua, SE slope Cerro La Pelota	8.933	-82.650
UMMZ	147702	Panama	Chiriqui	Quebrada Chevo, S slope Cerro La Pelota	8.867	-82.667
UMMZ	167345	Panama	Chiriqui	Rio Colorado, 17.5 km NW El Volcan	8.900	-82.683
UMMZ	167354	Panama	Chiriqui	16 km NW El Volcan	8.883	-82.667
UMMZ	167356	Panama	Chiriqui	Cerro Colorado, Escopeta Camp, 23 km NNE San Felix	8.483	-81.767
USNM	30569	Panama	Chiriqui	La Sierpe, 2 km (airline) NE of, Quebrada de Frank drainage	8.748	-82.217
USNM	75867	Panama	Chiriqui	Santa Clara, Finca Ojo de Agua	8.850	-82.783
USNM	76131	Panama	Chiriqui	Santa Clara Finca Osta Clara 1550M	8.850	-82.783
USNM	104364	Panama	Chiriqui	Rio Machomonte	8.817	-82.600
USNM	219131	Panama	Chiriqui	14 Km N Hornito along stream near rd. construction to La Fortuna 4000 Ft.	8.650	-82.217
USNM	219136	Panama	Chiriqui	Boquete	8.783	-82.433
USNM	219153	Panama	Chiriquí	Quebrada de Arena, 1050 m, upper Rio Chiriquí drainage	8.776	-82.209
USNM	245303	Panama	Chiriquí	Upper Rio Chiriquí, Fortuna Dam Site	8.733	-82.250
USNM	292539	Panama	Coclé	Continental Divide N El Copé	8.650	-80.600
USNM	292544	Panama	Veraguas	Cerro Tute	8.483	-81.100
USNM	292545	Panama	Veraguas	Santa Fe, N of, 2.3 km W of Alto Piedra Agricultural / Forestry School, Primero Brazo (stream)	8.500	-81.133
USNM	297508	Panama	Veraguas	Santa Fe, N of, 4.7 - 6.3 km W of Alto Piedra Agricultural/Forestry School, exact locality unknown	8.500	-81.150
USNM	297510	Panama	Veraguas	5-6 mi NW (via rd) Santa Fe	8.550	-81.133
USNM	324305	Panama	Veraguas	Santa Fe, N of, 4.7 - 6.3 km W of Alto Piedra Agricultural/Forestry School, exact locality unknown	8.517	-81.100