

MATERIAL SUPLEMENTARIO

Supplementary material. Potential distribution of *Agkistrodon bilineatus* (Squamata: Viperidae) and first records in Central Mexico

Material suplementario. Distribución potencial de *Agkistrodon bilineatus* (Squamata: Viperidae) y primeros registros en el Centro de México

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Appendix I. Contemporary records of *Agkistrodon bilineatus* (post-1980) used to build the species distribution model. Collection acronyms: Universidad Autónoma Metropolitana-Iztapalapa (CAR-I); Centro de Investigaciones Biológicas, Universidad Autónoma del Estado de Morelos (CIB-UAEM); Colección Zoológica Regional, Secretaría de Medio Ambiente e Historia Natural (CZRHE); El Colegio de la Frontera Sur, Unidad San Cristóbal de Las Casas (ECO-SC-H); Escuela Nacional de Ciencias Biológicas, Instituto Politécnico Nacional (ENCB-IPN); Colección de Fotocolectas Biológicas, Departamento de Zoología del Instituto de Biología, Universidad Nacional Autónoma de México (IBUNAM-CFB); University of Kansas Biodiversity Institute (KU); Laboratorio de Ecología, Unidad de Biotecnología y Prototipos, Facultad de Estudios Superiores Iztacala, Universidad Nacional Autónoma de México (LE-UBIPRO); Museo de Zoología “Alfonso L. Herrera” de la Facultad de Ciencias, Universidad Nacional Autónoma de México (MZFC-HE); University of Arizona, Museum of Natural History (UAZ); Universidad del Mar, Puerto Escondido Oaxaca (UMAR); Smithsonian Institution, National Museum of Natural History (USNM); Digital Collection of the University of Texas at Arlington (UTADC); Universidad del Valle de Guatemala (UVGR).

Country	State or Department	Locality	Latitude	Longitude	Year	Voucher and/or source
El Salvador	Cuscatlán	Municipio de Colima	14.05	-89.13	2001	KU 291394
Guatemala	Escuintla	San José	13.9256	-90.8244	1981	UVGR 000158
Guatemala	Escuintla	Santa Lucia Cotzumalguapa	14.3317	-91.025	1996	UVGR 002812
Guatemala	Jutiapa	Moyuta	14.0378	-90.0833	2000	UVGR 003629
Honduras	El Paraíso	Orealí	13.8871	-86.7927	2011	USNM 579868
Mexico	Chihuahua	Agua Caliente	27.45778	-108.52806	2006	Lemos and Smith 2007
Mexico	Chihuahua	Agua Salada	27.38169	-108.46906	2006	Lemos and Smith 2007
Mexico	Chihuahua	Arroyo La Justina	27.36867	-108.52731	2006	LE-UBIPRO 14683
Mexico	Chihuahua	Arroyo Las Borregas	27.38453	-108.53917	2006	Lemos and Smith 2007
Mexico	Chihuahua	Cerro de los Vitachis	27.4085	-108.47722	2006	Lemos and Smith 2007
Mexico	Chihuahua	El Camuchín	27.31567	-108.48667	2006	LE-UBIPRO 14734
Mexico	Chihuahua	Gorogachi	27.27253	-108.53778	2006	Lemos and Smith 2007

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Country	State or Department	Locality	Latitude	Longitude	Year	Voucher and/or source
Mexico	Chihuahua	Gorojaki	27.42661	-108.555	2006	Lemos and Smith 2007
Mexico	Chihuahua	La Ciénega	27.45764	-108.58083	2006	Lemos and Smith 2007
Mexico	Chihuahua	La Higuera	27.415	-108.50167	2006	LE-UBIPRO 14681
Mexico	Chihuahua	Salitrillo	27.26811	-108.46333	2006	LE-UBIPRO 14735
Mexico	Chihuahua	Tepochique	27.49319	-108.39256	2006	Lemos and Smith 2007
Mexico	Colima	Gasificadora Manzanillo	19.0113	-104.2609	2008	ENCB-IPN 18792
Mexico	Colima	Municipality of Manzanillo	19.1776	-104.0753	2021	UTADC 9729; Montaña-Ruvalcaba <i>et al.</i> 2022
Mexico	Colima	Tecomán	18.925	-103.875	1986	MZFC-HE 2163
Mexico	Estado de México	Between the towns of Ancón de la Presa and Peña del Órgano Municipality of Tlatlaya	18.43557	-100.23092	2014	This study; IBUNAM-CFB 47228
Mexico	Estado de México	Palmar Chico, Municipality of Amatepec	18.73208	-100.38506	2014	This study; IBUNAM-CFB 47229
Mexico	Guerrero	Cañada El Naranjo, Campo Morado	18.18908	-100.16569	2007	MZFC-HE 23953
Mexico	Guerrero	Road to Tlaxcalixtlahuaca, San Luis Acatlán	16.95346	-98.78894	2019	MZFC-HE 34984; Palacios-Aguilar <i>et al.</i> 2022
Mexico	Jalisco	Costa Careyes	19.44556	-105.03361	1988	ECO-SC-H-0317
Mexico	Jalisco	Zapopan	20.94181	-103.414	2011	UTADC 8540; Arenas-Monroy and Ahumada-Carrillo 2015
Mexico	Nayarit	Amapa, Municipio de Santiago Ixcuintla, Marismas Nacionales	21.7955	-105.27506	2015	Loc-Barragán and Carbal-Márquez 2016
Mexico	Nayarit	Capomo	21.67111	-105.25639	1984	CZRHE 1240
Mexico	Oaxaca	Cerro del Ídolo, road from Santiago Tamazola to San Miguel	17.4049	-98.1456	2003	MZFC-HE 17893; Canseco-Márquez and Nolasco Vélez 2008
Mexico	Oaxaca	Municipio de San Juan Lachao, Río Oriente.	16.15437	-97.10903	2015	CIB-UAEM 4831; DeSantis <i>et al.</i> 2015
Mexico	Oaxaca	Parque Nacional Lagunas de Chacahua	16.01861	-97.76123	2009	UMAR 038, 039; García-Grajales and Buenrostro-Silva 2011
Mexico	Oaxaca	Putla Villa de Guerrero	16.96359	-97.91304	2013	UTADC 8116; Grünwald <i>et al.</i> 2016
Mexico	Oaxaca	Santiago Pinotepa Nacional	16.36277	-98.17444	2020	CAR-I 1504; Nieto-Toscano and Martínez-Coronel 2021
Mexico	Sonora	Alrededores de Choquincahui	26.98423	-108.67297	1985	UAZ 47092
Mexico	Sonora	13.2 m N of Tesopaco on Hwy 12, Municipality of Rosario Tesopaco	27.81	-109.35	1991	UAZ 56577-PSV; Babb and Dugan 2008
Mexico	Sonora	14 km al NE de La Presa	26.9955	-108.75	2009	LE-UBIPRO 13869

Appendix II. Historical records of *Agkistrodon bilineatus* (pre-1980) used for testing the consensus species distribution model. Collection acronyms: California Academy of Sciences (CAS); Colección Nacional de Anfibios y Reptiles, Instituto de Biología, Universidad Nacional Autónoma de México (CNAR); Colección Zoológica Regional, Secretaría de Medio Ambiente e Historia Natural (CZRHE); Escuela Nacional de Ciencias Biológicas, Instituto Politécnico Nacional (ENCB-IPN); University of Kansas Biodiversity Institute (KU); Natural History Museum of Los Angeles County (LACM); Museum of Comparative Zoology, Harvard University (MCZ R); Museum of Vertebrate Zoology, University of California Berkeley (MVZ); Museo de Zoología “Alfonso L. Herrera” de la Facultad de Ciencias, Universidad Nacional Autónoma de México (MZFC-HE); Natural History Museum, London (NHM); San Diego Natural History Museum (SDSNH); Texas Cooperative Wildlife Collections, Texas A&M University (TCWC); University of Texas at El Paso, Biodiversity Collections (UTEP); Universidad del Valle de Guatemala (UVGR).

Country	State or Department	Locality	Latitude	Longitude	Year	Voucher
El Salvador	Cuscatlán	5.2 km ESE Tenancingo, Canton Ajulucio	13.81667	-88.93333	1979	KU 183982
Guatemala	Escuintla	Puerto San José	13.9228	-90.8194	1975	UVGR 001471
Guatemala	Escuintla	Tiquisate	14.287	-91.364	1930	MCZ R-29414
Guatemala	Suchitepéquez	Putulul	14.42265	-91.16013	1937	MCZ R-43290
Mexico	Chiapas	12 kilometers N of Ocozocoautla	16.86604	-93.37496	1975	UTEP 4021
Mexico	Chiapas	5 km N Ciudad Hidalgo	14.72087	-92.15993	1965	KU 95790
Mexico	Chiapas	Cañón del Sumidero	16.84167	-93.08333	1979	CNAR 2917
Mexico	Chiapas	Finca San Antonio	16.16639	-93.44583	1954	CZRHE 788
Mexico	Chiapas	Puerto Arista	15.93361	-93.81028	1979	TCWC 57434
Mexico	Chiapas	Tonola	16.09167	-93.75278	1882	MCZ R-5001
Mexico	Colima	Colima	19.24167	-103.725	1976	MZFC-HE 33
Mexico	Colima	11 mi ESE El Colomo	19.01062	-104.14022	1964	KU 91596
Mexico	Colima	50 mi S of Colima	18.74	-103.39	1949	SDSNH 40349
Mexico	Colima	Near Colima	19.241	-103.728	1950	SDSNH 40607
Mexico	Guerrero	Chilpancingo	17.55571	-99.50344	1932	MCZ R-33679
Mexico	Guerrero	4 mi N Ocotito	17.29072	-99.47010	1960	KU 67736
Mexico	Guerrero	6 km SE of Puerto Marqués, Viveros El Huayacán La Poza	16.78	-99.79	1977	CNAR 1624
Mexico	Jalisco	5 km. S. of Chamela, Estacion de Biología, UNAM	19.49	-105.05	1977	CNAR 2291
Mexico	Jalisco	9.6 km E Limon	22.25047	-104.02023	1965	KU 95972
Mexico	Michoacán	17.4 mi S of Las Canas on Mex. Hwy 37	18.44066	-102.08017	1976	CAS 142633
Mexico	Morelos	1.5 km to S. de Chinameca	18.61	-98.99	1974	CNAR 5088
Mexico	Nayarit	15 km to W. de Acaponeta	22.39722	-105.48639	1977	CNAR 2508
Mexico	Nayarit	2.8 mi S of Tepic, Compostela-Tepic Road	21.46051	-104.89025	1964	CAS 95825
Mexico	Nayarit	22.6 mi NE San Blas	21.77247	-105.05299	1959	MVZ 70293

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Country	State or Department	Locality	Latitude	Longitude	Year	Voucher
Mexico	Nayarit	25.8 mi (by Mx Hwy 15) SSE Acaponeta at turnoff to Providencia	22.22047	-105.27026	1979	LACM 130076
Mexico	Oaxaca	Tapanatepec	16.37078	-94.18998	1927	MCZ R-27812
Mexico	Oaxaca	Lagunas de Chacahua	15.9969	-97.6912	1977	ENCB-IPN 10851
Mexico	Oaxaca	Region Puerto Ángel and Puerto Escondido	15.73	-96.75	1979	CNAR 4394
Mexico	Sinaloa	1 mile south Rancho Hua- nacastle	22.54045	-105.57027	1962	LACM 7191
Mexico	Sinaloa	4 miles SE of Villa Union, Concordia	23.18042	-106.15028	1961	UTEP 4022
Mexico	Sinaloa	50 mi. S. Culiacan	24.13038	-107.07031	1962	LACM 7193
Mexico	Sinaloa	6 mi NNW Teacapan	22.62019	-105.77790	1964	KU 91429
Mexico	Sinaloa	7.5 miles North Mazatlán	23.35042	-106.42029	1962	LACM 7192
Mexico	Sinaloa	8 km N Villa Union	23.26042	-106.21029	1963	KU 80766
Mexico	Sinaloa	Presidio	23.15833	-106.24167	1883	NHM 83.4.5.59
Mexico	Sinaloa	Rosario	23.00043	-105.85028	1962	KU 73644
Mexico	Sinaloa	San Ignacio	23.94039	-106.42029	1962	KU 73643
Mexico	Sonora	Rancho Guirocoba	26.90314	-108.69192	1947	SDSNH 40271

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