

Table S2

SPECIES	Occurrence Source (GBIF etc.)	GBIF DOI	Occurrence access date	Manual adjustments to occurrence data and notes	Range Source (IUCN etc.)	Range access date
<i>Acontias percivali</i>	GBIF	10.15468/dl.alvksi	01.2020		IUCN	01.2020
<i>Acrochordus granulatus</i>	GBIF	10.15468/dl.t6u4sr	01.2020	Two records in central Australia deleted	IUCN	01.2020
<i>Agama agama</i>	GBIF	10.15468/dl.i7jkj6	01.2020	Two records in Pacific Ocean, probably caused by missing decimal points in XY table, deleted together with another such point that was not displayed in ArcGIS but probably had the same problem	GBIF buffered	
<i>Amphisbaena alba</i>	GBIF	10.15468/dl.ygt1nm	01.2020		IUCN	01.2020
<i>Amphisbaena fuliginosa</i>	GBIF	10.15468/dl.6foszd	01.2020	Record on Cuba deleted	IUCN	01.2020
<i>Amphisbaena kingii</i>	GBIF	10.15468/dl.0ianus	01.2020	One elevational outlier at >2000 m removed; possibly due to binning and/or imprecise locality data, as point of collection is lower but adjacent to steep Andean front	IUCN	01.2020
<i>Anelytropsis papillosus</i>	GBIF	10.15468/dl.ayyj0f	01.2020	Many records lie outside the relatively small range shapefile, but only one of these appears to represent an elevational outlier and was deleted. Source of conflict unclear.	IUCN	01.2020
<i>Anilius scytale</i>	GBIF	10.15468/dl.h7wkrs	01.2020	Three records in Eastern Brazil deleted	IUCN	01.2020
<i>Anniella pulchra</i>	GBIF	10.15468/dl.dtbhllh	01.2020	One record around Massachusetts, two records in Rocky Mountains and Basin-and-Range, five records in Baja California deleted	IUCN	01.2020
<i>Anolis chlorocyanus</i>	GBIF	10.15468/dl.ysojpr	01.2020	One elevational outlier at >2400 m removed; the single point is of low precision (degrees only)	GBIF buffered	
<i>Anolis conspersus</i>	GBIF	10.15468/dl.t2m89g	10.2020		GBIF buffered	
<i>Anolis cristatellus</i>	GBIF	10.15468/dl.vlcd35	01.2020	One record west of Puerto Rico deleted	GBIF buffered	
<i>Anolis ricordi</i>	GBIF	10.15468/dl.ck14j4	01.2020		Schwartz & Henderson, 1985	
<i>Anomochilus leonardi</i>	GoogleEarth	N/A	01.2020		IUCN	01.2020
<i>Aspidites melanocephalus</i>	GBIF	10.15468/dl.trbbmk	01.2020	Four records in southeastern Australia deleted	IUCN	01.2020
<i>Aspidoscelis tigris</i>	GBIF	10.15468/dl.o58taj	01.2020	Three highly extralimital records in the Rocky Mountain interior and several in central Mexico deleted	IUCN	01.2020
<i>Basiliscus basiliscus</i>	GBIF	10.15468/dl.uxshxk	01.2020	Five records east of the continental divide (northeastern Andean range) deleted	IUCN	01.2020
<i>Basiliscus galeritus</i>	GBIF	10.15468/dl.dhe6pr	01.2020	Two records east of the continental divide and four in western Panama deleted	IUCN	01.2020
<i>Bipes biporus</i>	GBIF	10.15468/dl.t2doll	01.2020	One record off Baja California deleted	IUCN	01.2020

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<i>Bipes canaliculatus</i>	GBIF	10.15468/dl.mqs1of	01.2020		IUCN	01.2020
<i>Blanus cinereus</i>	GBIF	10.15468/dl.xhzvfg	01.2020	Most records here are of dubious precision, because they form a regular grid	IUCN	01.2020
<i>Blanus strauchi</i>	GBIF	10.15468/dl.d3jiud	01.2020		IUCN	01.2020
<i>Boa constrictor</i>	GBIF	10.15468/dl.5jrtiv	01.2020		Köhler 2008 + Henderson et al. + IUCN ( <i>imperator</i> )	01.2020
<i>Bolyeria multocarinata</i>	GoogleEarth	N/A	01.2020		Take all of Mauritius, because no climate data for Round Island	
<i>Brachylophus fasciatus</i>	GBIF	10.15468/dl.1za0yv	01.2020		IUCN	01.2020
<i>Brachymeles gracilis</i>	GBIF	10.15468/dl.j45mvr	01.2020	Two records on Luzon deleted	IUCN	01.2020
<i>Brachyseps splendidus</i>	GBIF	10.15468/dl.stzf99	01.2020	The two GBIF occurrences were located in the uplands, whereas the two parts of the disjunct range in the IUCN shapefile are at lower elevation and did not overlap with the points; we suspect the occurrences are errors due to automatic attribution of coordinates, so we took instead two points, one each at the center of the two parts of the range	IUCN	01.2020
<i>Brookesia superciliaris</i>	GBIF	10.15468/dl.hnj3w0	01.2020	Four records west of divide deleted	IUCN	01.2020
<i>Cadea palirostrata</i>	GBIF	10.15468/dl.ptjy84	01.2020		IUCN	01.2020
<i>Calabaria reinhardtii</i>	GBIF	10.15468/dl.bbc6lf	01.2020	One record with latitude 699 (possibly a decimal error) deleted	GBIF buffered	
<i>Callopietes maculatus</i>	GBIF	10.15468/dl.feolfr	01.2020		IUCN	01.2020
<i>Candoia carinata</i>	GBIF	10.15468/dl.ewr7rg	01.2020		GBIF buffered	
<i>Casarea dussumieri</i>	GoogleEarth	N/A	01.2020		IUCN	01.2020

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<i>Causus defilippii</i>	GBIF	10.15468/dl.hxkgav	01.2020		Spawls et al. 2002 / Branch 1998	
<i>Celestus enneagrammus</i>	GBIF	10.15468/dl.wkr4ql	01.2020		IUCN	01.2020
<i>Chalarodon madagascariensis</i>	GBIF	10.15468/dl.z7pdqy	01.2020		IUCN	01.2020
<i>Charina bottae</i>	GBIF	10.15468/dl.yvsrqk	01.2020	One record in Midwest and two in Pacific Ocean deleted	IUCN	01.2020
<i>Colobosaura modesta</i>	GBIF	10.15468/dl.aqswle	01.2020		GBIF buffered	
<i>Cordylorus subtessellatus</i>	GBIF	10.15468/dl.3s4w5x	01.2020		Branch [now IUCN available]	
<i>Corytophanes cristatus</i>	GBIF	10.15468/dl.pbsrkm	01.2020	One record in Amazon deleted	IUCN	01.2020
<i>Cricosaura typica</i>	GBIF	10.15468/dl.jpsyjx	01.2020		IUCN	01.2020
<i>Crotaphytus collaris</i>	GBIF	10.15468/dl.v6zwh5	01.2020	Records in Florida, Veracruz, Washington State and North Dakota deleted. The remainder of records outside the IUCN range result from splitting of the species (McGuire 1996). Because these now extralimital records are numerically significant, we manually deleted those from approximately outside the range of <i>C. collaris</i> following that author and Stebbins (2003)	IUCN	01.2020
<i>Cylindrophis ruffus</i>	GBIF	10.15468/dl.lojgp3	01.2020	One record in India deleted	IUCN	01.2020
<i>Dibamus novaeguineae</i>	GBIF	10.15468/dl.27dnmb	01.2020		IUCN	01.2020
<i>Diplometopon zarudnyii</i>	GBIF	10.15468/dl.yvzwx9	01.2020	One record in Mecca deleted	IUCN	01.2020
<i>Dipsosaurus dorsalis</i>	GBIF	10.15468/dl.v395wz	01.2020	Eight extralimital northern and Mexican records deleted	IUCN	01.2020
<i>Elgaria multicarinata</i>	GBIF	10.15468/dl.vd35oy	01.2020	Records in Hawaii, south-central Mexico, eastern United States, Colombia River delta, and southern Baja California were deleted. The Baja records result from the splitting of the species	IUCN	01.2020
<i>Enyalioides laticeps</i>	GBIF	10.15468/dl.qwyymbt	01.2020	Two records west of the Andes were deleted	IUCN	01.2020
<i>Enyalioides oshaughnessyi</i>	GBIF	10.15468/dl.cqhoat	01.2020	One record east of the Andes was deleted	IUCN	01.2020
<i>Eryx conicus</i>	GBIF	10.15468/dl.pj9qdp	01.2020		GBIF buffered	
<i>Eryx miliaris</i>	GBIF	10.15468/dl.paarxu	01.2020		GBIF buffered	
<i>Eugongylus rufescens</i>	GBIF	10.15468/dl.dqd6p4	01.2020	One record in southern Queensland deleted	GBIF buffered	
<i>Eumeces schneideri</i>	GBIF	10.15468/dl.434us5	01.2020	One record in Indonesia deleted	GBIF buffered	

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<i>Eunectes notaeus</i>	GBIF	10.15468/dl.oeyq6p	01.2020		GBIF buffered	
<i>Exiliboa placata</i>	GBIF	10.15468/dl.zodcuy	01.2020	Two records in lowlands of Chiapas deleted	IUCN	01.2020
<i>Feylinia polylepis</i>	GBIF	10.15468/dl.3xgalp	01.2020		GBIF buffered	
<i>Gallotia atlantica</i>	GBIF	10.15468/dl.vjrljj	01.2020	One extralimital Canary and one record over deep ocean deleted	IUCN	01.2020
<i>Gambelia wislizenii</i>	GBIF	10.15468/dl.hbtixc	01.2020	One record each in Midwest and near Mexico City deleted. Additionally, records in the ranges of the species <i>G. copei</i> and <i>G. silas</i> , which were split, were deleted	IUCN	01.2020
<i>Geocalamus acutus</i>	GBIF	10.15468/dl.fucc4c	01.2020		GBIF buffered	
<i>Heloderma horridum</i>	GBIF	10.15468/dl.ne12fg	01.2020	One record near tip of Gulf of California and in central Mexico deleted	IUCN	01.2020
<i>Heloderma suspectum</i>	GBIF	10.15468/dl.ix7bt	01.2020	Three extralimital northern and western (Mojave desert) records deleted	IUCN	01.2020
<i>Hoplocercus spinosus</i>	GBIF	10.15468/dl.kzqlmo	01.2020		GBIF buffered	
<i>Iguana iguana</i>	GBIF	10.15468/dl.aopgw2	01.2020	Records in Baja California including Tijuana and Galapagos deleted	IUCN	01.2020
<i>Lacerta viridis</i>	GBIF	10.15468/dl.qvbbpp	01.2020	All records west of longitude +13 (including USA, Scotland) deleted, to deal with splitting issue. Records in central Poland, Italy, and southern Turkey deleted	IUCN	01.2020
<i>Laemantus longipes</i>	GBIF	10.15468/dl.pwsxdb	01.2020		IUCN	01.2020
<i>Lanthanotus borneensis</i>	GBIF + Yaap	10.15468/dl.que3ad	01.2020		GBIF + Yaap et al. 2012 buffered	
<i>Leiocephalus melanochlorus</i>	GBIF	10.15468/dl.7hqciw	01.2020		IUCN	01.2020
<i>Leiocephalus personatus</i>	GBIF	10.15468/dl.isws72	01.2020		IUCN	01.2020
<i>Leiolepis belliana</i>	GBIF	10.15468/dl.ne0bjq	01.2020	One elevational outlier at 1171 m excluded; given habitat of this species this is very likely in error (J. Grismer, pers. comm., 2020)	IUCN	01.2020
<i>Lepidophyma flavimaculatum</i>	GBIF	10.15468/dl.tkc2xm	01.2020	Records from western Mexico and Yucatán deleted	IUCN	01.2020
<i>Leposternon microcephalum</i>	GBIF	10.15468/dl.icre61	01.2020		IUCN	01.2020

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<i>Lichanura trivirgata</i>	GBIF	10.15468/dl.ycpwdn	01.2020	Record in central Mexico and record in Midwest deleted. Also, extralimital records in California deleted to deal with a splitting issue	IUCN	01.2020
<i>Liolaemus pictus</i>	GBIF	10.15468/dl.pmerx3	01.2020	Extralimital records in northern Chile and in Patagonia deleted	IUCN	01.2020
<i>Loveridgea ionidesii</i>	GBIF	10.15468/dl.totpix	01.2020		IUCN	01.2020
<i>Loxocemus bicolor</i>	GBIF	10.15468/dl.dhg2f8	01.2020		IUCN	01.2020
<i>Mesaspis moreletii</i>	GBIF	10.15468/dl.w9bt79	01.2020		IUCN	01.2020
<i>Mesoscincus schwartzei</i>	GBIF	10.15468/dl.avcov3	01.2020	One record in Sierra Madre deleted	IUCN	01.2020
<i>Microlophus occipitalis</i>	GBIF	10.15468/dl.nkodr5	01.2020	One record high in Andes and one in southern Peru deleted	IUCN	01.2020
<i>Monopeltis capensis</i>	GBIF	10.15468/dl.diw1sn	02.2020	Two records in Namibia, one in northern Tanzania deleted. Remaining conflict between range and occurrence data affecting part of the range will require specialist attention	IUCN	01.2020
<i>Monopeltis jugularis</i>	GBIF	10.15468/dl.yffhbp	02.2020	The single record is far away from the IUCN range, and the numbers suggest that latitude and longitude may have been switched. Due to uncertainty, however, we deleted the record and added a single point at the approximate centre of the IUCN range	IUCN	01.2020
<i>Morunasaurus groi</i>	GBIF	10.15468/dl.fbpq0o	01.2020	One record east of Andes deleted	IUCN	01.2020
<i>Ophisaurus ventralis</i>	GBIF	10.15468/dl.6okbcg	01.2020	Seven highly extralimital records in central United States deleted	IUCN	01.2020
<i>Oplurus cuvieri</i>	GBIF	10.15468/dl.ku8lrk	01.2020		IUCN	01.2020
<i>Oplurus quadrimaculatus</i>	GBIF	10.15468/dl.zq2e6d	01.2020		IUCN	01.2020
<i>Petrosaurus thalassinus</i>	GBIF	10.15468/dl.zrw1iz	01.2020	Records in California and most of Baja California, except tip, deleted	IUCN	01.2020
<i>Pholidobolus montium</i>	GBIF	10.15468/dl.nmfoz4	01.2020	Three records well south of the IUCN range deleted. Others extend in a continuous band south of the IUCN range, but these were left as is, because they overlap with the IUCN and are continuous. As they follow the Andes, the difference is probably not significant in effect. One record with latitude -217 (possibly a decimal error) was deleted	IUCN	01.2020
<i>Phrynosoma platyrhinos</i>	GBIF	10.15468/dl.hxqapc	01.2020	Twelve extralimital records were deleted based on Stebbins (2003)	IUCN	01.2020

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<i>Phymaturus palluma</i>	GBIF	10.15468/dl.wxolyv	01.2020	Two records in Patagonia, and two west of Andes in Chile, were deleted	IUCN	01.2020
<i>Physignathus cocincinus</i>	GBIF	10.15468/dl.y3izrz	01.2020		IUCN	01.2020
<i>Platysaurus imperator</i>	GBIF	10.15468/dl.dx2vy2	01.2020		IUCN	01.2020
<i>Plestiodon fasciatus</i>	GBIF	10.15468/dl.j6ust5	01.2020	Three records too far west, one in ocean, and three in southern Florida were deleted	IUCN	01.2020
<i>Plica umbra</i>	GBIF	10.15468/dl.rsmjvf	01.2020	Two records from the high Andes were deleted	IUCN	01.2020
<i>Polychrus acutirostris</i>	Avila Pires, Garda et al.	10.15468/dl.7hwp7m	01.2020		IUCN	01.2020
<i>Polychrus marmoratus</i>	GBIF	10.15468/dl.tlssmc	01.2020	One record each in Israel, Florida, and Chile were deleted	IUCN	01.2020
<i>Pristidactylus torquatus</i>	GBIF	10.15468/dl.cbw277	01.2020	One record in northern Chile deleted	IUCN	01.2020
<i>Pseudopus apodus</i>	GBIF	10.15468/dl.ng79t8	08.2021	One record with longitude -117 deleted	GBIF buffered	
<i>Python molurus</i>	GBIF	10.15468/dl.7izq8o	01.2020		IUCN + GBIF buffered	01.2020
<i>Rena humilis</i>	GBIF	10.15468/dl.tuatz	01.2020	Three records in north-central USA deleted	GBIF buffered	
<i>Rhineura floridana</i>	GBIF	10.15468/dl.odxlv	01.2020	One record in western Florida Panhandle deleted	IUCN	01.2020

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<i>Rhinophis melanogaster</i>	GBIF	10.15468/dl.lrbfj	01.2020		GBIF buffered	
<i>Saara hardwickii</i>	GBIF	10.15468/dl.ykxqfh	01.2020		GBIF buffered	
<i>Sanzinia madagascarensis</i>	GBIF	10.15468/dl.wru8qh	01.2020		IUCN	01.2020
<i>Sceloporus undulatus</i>	GBIF	10.15468/dl.vzudrb	01.2020	Eight records in western USA and six in southern Mexico deleted	IUCN	01.2020
<i>Scincus scincus</i>	GBIF	10.15468/dl.mapzcx	01.2020		GBIF buffered	
<i>Shinisaurus crocodilurus</i>	GBIF	10.15468/dl.lau263	01.2020	Two records in north China deleted	Zollweg and Kühne 2013 / data in Ziegler et al. 2008 for Vietnam	
<i>Smaug mossambicus</i>	GBIF	10.15468/dl.iqyjem	01.2020		IUCN	01.2020
<i>Sphenodon punctatus</i>	GBIF	10.15468/dl.jmehxw	01.2020	Many records on mainland and in ocean deleted	GBIF buffered	01.2020
<i>Sphenomorphus solomonis</i>	GBIF	10.15468/dl.mmomke	01.2020		GBIF buffered	
<i>Stenocercus scapularis</i>	GBIF	10.15468/dl.xlfpsv	01.2020		IUCN	01.2020
<i>Takydromus sexlineatus</i>	GBIF	10.15468/dl.giyhhv	01.2020	One record in USA, records in central China deleted	IUCN	01.2020

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<i>Teius teyou</i>	GBIF	10.15468/dl.cir0o4	01.2020	Rather extensive records southeast of mapped range in Argentina, Paraguay and Brazil. These were left as is, for now. One elevational outlier at >1800 m removed; possibly due to binning and/or imprecise locality data, as point of collection is lower but adjacent to steep Andean front	IUCN	01.2020
<i>Tiliqua scincoides</i>	GBIF	10.15468/dl.uoikqv	01.2020	Two records in Western Australia, two in Tasmania, and two in Pacific Ocean deleted. Those in Indonesia left as is, although they are outside the IUCN range	IUCN	01.2020
<i>Trachyboa boulengeri</i>	GBIF	10.15468/dl.3wfv6	01.2020	One record above 90 degrees latitude deleted (possibly a decimal problem)	IUCN	01.2020
<i>Trachylepis quinquetaeniata</i>	GBIF	10.15468/dl.exgg8l	01.2020	One record in ocean west of Africa deleted. After thesis at Villanova University by K. E. Allen (A. Bauer student) the GBIF records used to create buffer for range might reflect an older conception of the species, but range and point record are consistent	GBIF buffered	
<i>Trogonophis wiegmanni</i>	GBIF	10.15468/dl.h53vtj	01.2020	One record in Sahara deleted	IUCN	01.2020
<i>Tropidophis haetianus</i>	GBIF	10.15468/dl.kszkse	01.2020		GBIF buffered	
<i>Tropidurus torquatus</i>	GBIF	10.15468/dl.n8ct2o	01.2020		IUCN + GBIF buffered	01.2020
<i>Tupinambis tequixin</i>	GBIF	10.15468/dl.d8ept	01.2020	Three outliers at >2500 m probably due to binning and/or imprecise locality data, as points of collection are close to steep Andean front	GBIF buffered	
<i>Typhlops jamaicensis</i>	GBIF	10.15468/dl.2ia2gv	01.2020	Two records in ocean deleted	IUCN	01.2020
<i>Ungaliophis continentalis</i>	GBIF	10.15468/dl.5rtes0	01.2020		GBIF buffered	
<i>Ungaliophis panamensis</i>	GBIF	10.15468/dl.acl3pl	01.2020		IUCN	01.2020
<i>Uromastyx acanthinura</i>	GBIF	10.15468/dl.mwxzmy	01.2020		GBIF buffered	



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<i>Varanus acanthurus</i>	GBIF	10.15468/dl.nrqzum	02.2020	Three records in southern Australia and four records in eastern Queensland deleted	IUCN	01.2020
<i>Varanus exanthematicus</i>	GBIF	10.15468/dl.clw0op	01.2020	One record in Pacific Ocean deleted	IUCN	01.2020
<i>Varanus salvator</i>	GBIF	10.15468/dl.a6j1k3	01.2020	One record in central India and records in Philippines deleted	IUCN	01.2020
<i>Xantusia vigilis</i>	GBIF	10.15468/dl.pnvqge	01.2020	Records in Mexico outside of the area immediately around the Gulf of California deleted	IUCN	01.2020
<i>Xenodermus javanicus</i>	GBIF	10.15468/dl.dhdt68	01.2020		IUCN	01.2020
<i>Xenopeltis unicolor</i>	GBIF	10.15468/dl.l0so1a	01.2020	One record in Bay Area of California deleted	IUCN	01.2020
<i>Xenosaurus grandis</i>	GBIF	10.15468/dl.asyv1h	01.2020	Six records west of established populations deleted. The IUCN range includes species that are sometimes split, notably <i>X. agrenon</i> and <i>X. rackhami</i> . Because the GBIF records also include these, we have not scrubbed them	IUCN	01.2020
<i>Xenosaurus platyceps</i>	GBIF	10.15468/dl.slzngn	01.2020	One record near Texas border deleted	IUCN	01.2020
<i>Zonosaurus ornatus</i>	GBIF	10.15468/dl.zeskto	01.2020		IUCN	01.2020

SPECIES	Manual adjustments to range data	Elevation max (m)	Elevation source	Manual adjustments to elevation	References
<i>Acontias percivali</i>		1000	IUCN		
<i>Acrochordus granulatus</i>		100	IUCN		
<i>Agama agama</i>		2000	Chirio & LeBreton 2007		Chirio, L. and M. LeBreton (2007) <i>Atlas des reptiles du Cameroun</i> . Vol. 67. IRD Editions.
<i>Amphisbaena alba</i>		220	IUCN		
<i>Amphisbaena fuliginosa</i>		850	IUCN		
<i>Amphisbaena kingii</i>		1195	Based on maximum elevation of GBIF occurrences (excluding outlier)		
<i>Anelytropsis papillosus</i>		500	IUCN		
<i>Anilius scytale</i>		1000	IUCN		
<i>Anniella pulchra</i>		1550	Stebbins 2003		Stebbins, R. C. (2003). <i>Western reptiles and amphibians</i> (p. 533). Boston, MA: Houghton Mifflin Company.
<i>Anolis chlorocyanus</i>		1409	Based on maximum elevation of GBIF occurrences (excluding outlier)		
<i>Anolis conspersus</i>		20	Maximum elevation of Grand Cayman		
<i>Anolis cristatellus</i>		1145	Based on maximum elevation of GBIF occurrences		
<i>Anolis ricordi</i>		1350	Schwartz 1974		Schwartz, A., & Henderson, R. W. (1985). <i>A guide to the identification of the amphibians and reptiles of the West Indies (exclusive of Hispaniola)</i> . Milwaukee Public Museum.
<i>Anomochilus leonardi</i>		500	IUCN		
<i>Aspidites melanocephalus</i>		1047	Based on maximum elevation of GBIF occurrences		
<i>Aspidoscelis tigris</i>		2130	Stebbins 2003		Stebbins, R. C. (2003). <i>Western reptiles and amphibians</i> (p. 533). Boston, MA: Houghton Mifflin Company.
<i>Basiliscus basiliscus</i>		1600	IUCN		
<i>Basiliscus galeritus</i>		980	IUCN		
<i>Bipes biporus</i>		644	Based on maximum elevation of GBIF occurrences		

SPECIES	Manual adjustments to range data	Elevation max (m)	Elevation source	Manual adjustments to elevation	References
<i>Bipes canaliculatus</i>		1273	Based on maximum elevation of GBIF occurrences		
<i>Blanus cinereus</i>		1800	IUCN		
<i>Blanus trauchi</i>		1400	IUCN		
<i>Boa constrictor</i>	<i>Boa imperator</i> is now separated from <i>B. constrictor</i> . Because the species identity of specimens used in phylogenetic analyses are not immediately attributable to a currently recognised species, we elected to retain <i>B. constrictor</i> as a composite. Accordingly, we merged the published geographic range of <i>B. constrictor</i> in South America with the IUCN range of <i>B. imperator</i>	1000	Köhler 2008		Köhler, G. (2008). <i>Reptiles of central America</i> (No. C AC/598.109728 K64).
<i>Bolyeria multocarinata</i>		280	Maximum elevation of Round Island		
<i>Brachylophus fasciatus</i>		200	IUCN		
<i>Brachymeles gracilis</i>		1000	IUCN		
<i>Brachyseps splendidus</i>		1054	See note	The 2 GBIF occurrences of <i>Brachyseps splendidus</i> , when projected onto the DEM grid, are at a much higher elevation than the maximum (300 m) given by the IUCN. Although mis-identification is a potential issue, the IUCN range of this species includes large portions of Madagascar above 300 m. Thus, we chose to set an arbitrary maximum of 1054 m, just above the lower of the two occurrences	
<i>Brookesia superciliaris</i>		1250	IUCN		
<i>Cadea palirostrata</i>		75	IUCN		
<i>Calabaria reinhardtii</i>		1050	Chirio & LeBreton 2007		Chirio, L. and M. LeBreton (2007) <i>Atlas des reptiles du Cameroun</i> . Vol. 67. IRD Editions.
<i>Callopistes maculatus</i>		2200	IUCN		
<i>Candoia carinata</i>		1630	GBIF occurrence (cf. McDowell 1979)		McDowell, S. B. (1979). A catalogue of the snakes of New Guinea and the Solomons, with special reference to those in the Bernice P. Bishop Museum. Part III. Boinae and Acrochordoidea (Reptilia, Serpentes). <i>Journal of Herpetology</i> , 1-92.
<i>Casarea dussumieri</i>		280	Maximum elevation of Round Island		

SPECIES	Manual adjustments to range data	Elevation max (m)	Elevation source	Manual adjustments to elevation	References
<i>Causus defilippii</i>		1800	Spawls et al. 2002		Spawls, S., K. Howell and R. C. Drewes (2002). <i>Field guide to the reptiles of East Africa</i> . Academic; Branch, B. (1998). <i>Field guide to snakes and other reptiles of southern Africa</i> . Struik.
<i>Celestus enneagrammus</i>		1830	IUCN		
<i>Chalarodon madagascariensis</i>		1260	Based on maximum elevation of GBIF occurrences		
<i>Charina bottae</i>		3050	IUCN		
<i>Colobosaura modesta</i>		757	Based on maximum elevation of GBIF occurrences		
<i>Cordylosaurus subtessellatus</i>		1920	Based on maximum elevation of GBIF occurrences		
<i>Corytophanes cristatus</i>		1640	IUCN		
<i>Cricosaura typica</i>		200	IUCN		
<i>Crotaphytus collaris</i>		3000	Stebbins 2003		Stebbins, R. C. (2003). <i>Western reptiles and amphibians</i> (p. 533). Boston, MA: Houghton Mifflin Company; McGuire, J. (1996). Phylogenetic systematics of crotaphytid lizards (Reptilia: Iguania: Crotaphytidae). <i>Bulletin of Carnegie Museum of Natural History</i> .
<i>Cylindrophis ruffus</i>		1091	Based on maximum elevation of GBIF occurrences (cf. Chan et al. 2019, working in Malaysia)		Chan, K. O., Muin, M. A., Anuar, S., Andam, J., Razak, N., & Aziz, M. A. (2019). First checklist on the amphibians and reptiles of Mount Korbu, the second highest peak in Peninsular Malaysia. <i>Check List</i> , 15(6), 1055-1069.
<i>Dibamus novaeguineae</i>		909	IUCN		
<i>Diplometopon zarudnyii</i>		1000	IUCN		
<i>Dipsosaurus dorsalis</i>		1520	IUCN		
<i>Elgaria multicarinata</i>		1524	IUCN		
<i>Enyalioides laticeps</i>		1600	IUCN		
<i>Enyalioides oshaughnessyi</i>		1600	IUCN		
<i>Eryx conicus</i>		607	Based on maximum elevation of GBIF occurrences		
<i>Eryx miliaris</i>		1000	IUCN		
<i>Eugongylus rufescens</i>		1957	Based on maximum elevation of GBIF occurrences		
<i>Eumeces schneideri</i>		1800	IUCN		

SPECIES	Manual adjustments to range data	Elevation max (m)	Elevation source	Manual adjustments to elevation	References
<i>Eunectes notaeus</i>		807	Based on maximum elevation of GBIF occurrences		
<i>Exiliboa placata</i>		2000	IUCN		
<i>Feylinia polylepis</i>		603	Based on maximum elevation of GBIF occurrences		
<i>Gallotia atlantica</i>		800	IUCN		
<i>Gambelia wislizenii</i>		1830	Stebbins 2003		Stebbins, R. C. (2003). <i>Western reptiles and amphibians</i> (p. 533). Boston, MA: Houghton Mifflin Company.
<i>Geocalamus acutus</i>		593	Based on maximum elevation of GBIF occurrences		
<i>Heloderma horridum</i>		1529	IUCN		
<i>Heloderma suspectum</i>		1950	IUCN		
<i>Hoplocercus spinosus</i>		784	Based on maximum elevation of GBIF occurrences		
<i>Iguana iguana</i>	Florida range deleted	1000	IUCN		
<i>Lacerta viridis</i>		2130	IUCN		
<i>Laemactus longipes</i>		750	IUCN		
<i>Lanthanotus borneensis</i>		397	Based on maximum elevation of GBIF occurrences		Yaap, B., Paoli, G. D., Angki, A., Wells, P. L., Wahyudi, D., & Auliya, M. (2012). First record of the Borneo Earless Monitor <i>Lanthanotus borneensis</i> (Steindachner, 1877) (Reptilia: Lanthanotidae) in West Kalimantan (Indonesian Borneo). <i>Journal of Threatened Taxa</i> , 4, 3067-3074.
<i>Leiocephalus melanochlorus</i>		1650	IUCN		
<i>Leiocephalus personatus</i>		625	IUCN		
<i>Leiolepis belliana</i>		510	Based on maximum elevation of GBIF occurrences (excluding outlier)		
<i>Lepidophyma flavimaculatum</i>		1500	IUCN		
<i>Leposternon microcephalum</i>		783	Based on maximum elevation of GBIF occurrences		

SPECIES	Manual adjustments to range data	Elevation max (m)	Elevation source	Manual adjustments to elevation	References
<i>Lichanura trivirgata</i>		2070	IUCN		Wood, D. A., Fisher, R. N., & Reeder, T. W. (2008). Novel patterns of historical isolation, dispersal, and secondary contact across Baja California in the Rosy Boa ( <i>Lichanura trivirgata</i> ). <i>Molecular Phylogenetics and Evolution</i> , 46(2), 484-502.
<i>Liolaemus pictus</i>		1600	IUCN		
<i>Loveridgea ionidesii</i>		1200	IUCN		
<i>Loxocemus bicolor</i>		800	IUCN		
<i>Mesaspis moreletii</i>		2530	IUCN		
<i>Mesoscincus schwartzei</i>		300	IUCN		
<i>Microlophus occipitalis</i>		900	IUCN		
<i>Monopeltis capensis</i>		1605	Based on maximum elevation of GBIF occurrences		
<i>Monopeltis jugularis</i>		654	Based on maximum elevation of GBIF occurrences		
<i>Morunasaurus groi</i>		900	IUCN		
<i>Ophisaurus ventralis</i>		293	Based on maximum elevation of GBIF occurrences		
<i>Oplurus cuvieri</i>		1758	Based on maximum elevation of GBIF occurrences		
<i>Oplurus quadrimaculatus</i>		2050	IUCN		
<i>Petrosaurus thalassinus</i>		2020	Grismer 2002		Grismer, L. L. (2002). <i>Amphibians and reptiles of Baja California, including its Pacific islands and the islands in the Sea of Cortés</i> (Vol. 4). Univ of California Press.
<i>Pholidobolus montium</i>		4051	Based on maximum elevation of GBIF occurrences (cf. Torres-Carvajal and Mafla-Endara, 2013)		Torres-Carvajal, O., & Mafla-Endara, P. (2013). Evolutionary history of Andean <i>Pholidobolus</i> and <i>Macropholidus</i> (Squamata: Gymnophthalmidae) lizards. <i>Molecular Phylogenetics and Evolution</i> , 68(2), 212-217.
<i>Phrynosoma platyrhinos</i>		1980	IUCN		Stebbins, R. C. (2003). <i>Western reptiles and amphibians</i> (p. 533). Boston, MA: Houghton Mifflin Company

SPECIES	Manual adjustments to range data	Elevation max (m)	Elevation source	Manual adjustments to elevation	References
<i>Phymaturus palluma</i>		2200	IUCN		
<i>Physignathus cocincinus</i>		770	IUCN		
<i>Platysaurus imperator</i>		1263	Based on maximum elevation of GBIF occurrences		
<i>Plestiodon fasciatus</i>		1480	Based on maximum elevation of GBIF occurrences		
<i>Plica umbra</i>		500	IUCN		
<i>Polychrus acutirostris</i>		1198	Based on maximum elevation of GBIF occurrences (cf. Da Silva Bonfim et al. 2016)		da Silva Bonfim, M., Tinôco, M. S., Dantas, B. C., & Sales, M. C. B. (2016) CARACTERIZAÇÃO DE UM GRADIENTE DE ALTITUDE DA HERPETOFAUNA EM FORMAÇÃO DE CAMPO RUPESTRE–MUCUGÊ–BAHIA–BRASIL. SEMOC, Outubro
<i>Polychrus marmoratus</i>		1500	IUCN		
<i>Pristidactylus torquatus</i>		3363	Based on maximum elevation of GBIF occurrences (consistent with Nuñez 1992)		Nuñez, H. (1992). Geographical data of Chilean lizards and snakes in the Museo Nacional de Historia Natural, Santiago, Chile.
<i>Pseudopus apodus</i>		700	Based on maximum elevation for Europe in Glandt (2010); up to 2300 m elsewhere		Glandt, D. (2010). <i>Taschenlexikon der amphibien und reptilien europas: Alle arten von den kanarischen inseln bis zum ural</i> . Quelle & Meyer.
<i>Python molurus</i>	<i>Python bivittatus</i> is now considered distinct from <i>P. molurus</i> . The IUCN range is for <i>P. molurus</i> s.s., whereas the GBIF data included <i>P. molurus</i> and <i>P. bivittatus</i> . Furthermore, the specimens used in phylogenetic analyses are not immediately attributable to a currently recognised species. Thus, we elected to retain <i>P. molurus</i> as a composite. Accordingly, we merged the IUCN range with a 50-km buffer around records of <i>P. molurus</i> and <i>P. bivittatus</i> , which effectively adds to the range of <i>P. molurus</i>	4050	IUCN		
<i>Rena humilis</i>		1520	Stebbins 2003 (maximum lower limit to cover desert sinks)		Stebbins, R. C. (2003). <i>Western reptiles and amphibians</i> (p. 533). Boston, MA: Houghton Mifflin Company
<i>Rhineura floridana</i>		63	Based on maximum elevation of GBIF occurrences		

SPECIES	Manual adjustments to range data	Elevation max (m)	Elevation source	Manual adjustments to elevation	References
<i>Rhinophis melanogaster</i>		1000	See note	All 10 GBIF occurrences of <i>Rhinophis melanogaster</i> , when projected onto the DEM grid, are at a higher elevation than the maximum (250 m) given by Pyron et al. (2016), so we chose to set an arbitrary maximum of 1000 m, which includes 7 of the occurrences	Pyron, R. A., Ganesh, S. R., Sayyed, A., Sharma, V., Wallach, V., & Somaweera, R. (2016). A catalogue and systematic overview of the shield-tailed snakes (Serpentes: Uropeltidae). <i>Zoosystema</i> , 38(4), 453-506.
<i>Saara hardwickii</i>		800	Khan 2015		Khan, M. S. (2015). Affinities and altitudinal distribution of amphibians and reptiles in Pakistan. <a href="https://www.researchgate.net/profile/Muhammad-Khan-426/publication/281555001_table_affinities_and_altitudinal_distribution_of_amphibians_and_reptiles_in_pakistan/links/55ed8ff708aeb6516268eae3/table-affinities-and-altitudinal-distribution-of-amphibians-and-reptiles-in-pakistan.pdf">https://www.researchgate.net/profile/Muhammad-Khan-426/publication/281555001_table_affinities_and_altitudinal_distribution_of_amphibians_and_reptiles_in_pakistan/links/55ed8ff708aeb6516268eae3/table-affinities-and-altitudinal-distribution-of-amphibians-and-reptiles-in-pakistan.pdf</a>
<i>Sanzinia madagascarensis</i>		1300	IUCN		
<i>Sceloporus undulatus</i>		3990	Based on maximum elevation of GBIF occurrences		
<i>Scincus scincus</i>		1053	Based on maximum elevation of GBIF occurrences		
<i>Shinisaurus crocodilurus</i>		1500	IUCN		Zollweg, M., & Kühne, H. (2013). Krokodilschwanzzechsen- <i>Shinisaurus crocodilurus</i> . <i>Natur und Tier-Verlag, Münster, Germany</i> ; Ziegler, T., Quyet, L. K., Thanh, V. N., Hendrix, R., & Boehme, W. (2008). A comparative study of crocodile lizards ( <i>Shinisaurus crocodilurus</i> AHL, 1930) from Vietnam and China. <i>Raffles Bulletin of Zoology</i> , 56(1), 181-187.
<i>Smaug mossambicus</i>		347	Based on maximum elevation of GBIF occurrences		
<i>Sphenodon punctatus</i>		722	IUCN		
<i>Sphenomorphus solomonis</i>		2064	Based on maximum elevation of GBIF occurrences		
<i>Stenocercus scapularis</i>		1800	IUCN		
<i>Takydromus sexlineatus</i>		1965	Based on maximum elevation of GBIF occurrences (cf. Chettri et al. 2011)		Chettri, B., Bhupathy, S., & Acharya, B. K. (2011). An overview of the herpetofauna of Sikkim with emphasis on the elevational distribution pattern and threats and conservation issues. <i>Biodiversity of Sikkim: exploring and conserving a global hotspot. Gangtok: Information and Public Relations Department, Government of Sikkim</i> , 233-254.



SPECIES	Manual adjustments to range data	Elevation max (m)	Elevation source	Manual adjustments to elevation	References
<i>Teius teyou</i>		1241	Based on maximum elevation of GBIF occurrences (excluding outlier) (cf. Cacciali et al. 2016)		Cacciali, P. I. E. R., Morando, M. A. R. I. A. N. A., Köhler, G., & Avila, L. (2016). On the distribution of the genus <i>Teius</i> Merrem, 1820 (Reptilia: Squamata: Teiidae). <i>Zootaxa</i> , 4136(3), 491-514.
<i>Tiliqua scincoides</i>		1000	Hancock & Thompson (1997) - with note that it changes with latitude		Hancock, L. J., & Thompson, M. (1997). Distributional limits of Eastern Blue-tongue Lizards <i>Tiliqua scincoides</i> , Blotched Blue-tongue Lizards <i>T. nigrolutea</i> and Shingleback Lizards <i>T. rugosa</i> (Gray) in New South Wales. <i>Australian Zoologist</i> , 30(3), 340-345.
<i>Trachyboa boulengeri</i>		1000	IUCN		
<i>Trachylepis quinquetaeniata</i>		1900	Chirio & LeBreton 2007		Chirio, L. and M. LeBreton (2007) <i>Atlas des reptiles du Cameroun</i> . Vol. 67. IRD Editions.
<i>Trogonophis wiegmanni</i>		1900	IUCN		
<i>Tropidophis haetianus</i>		850	Schwartz 1975		Schwartz, A. (1975). Variation in the Antillean boid snake <i>Tropidophis haetianus</i> Cope. <i>Journal of Herpetology</i> , 303-311.
<i>Tropidurus torquatus</i>	<i>Tropidurus torquatus</i> has been split. Because the species identity of specimens used in phylogenetic analyses are not immediately attributable to a currently recognised species, we elected to retain <i>T. torquatus</i> as a composite. Following the Reptile Database (7/2020), many records north of equator in South America as well as in Argentina seem acceptable. For this reason, we merged the IUCN range with a 50-km buffer around GBIF records of “ <i>T. torquatus</i> ”, which effectively adds to the range of <i>T. torquatus</i> s.s.	1635	IUCN		
<i>Tupinambis tequixin</i>		1414	Based on maximum elevation of GBIF occurrences (excluding outliers)		
<i>Typhlops jamaicensis</i>		600	IUCN		
<i>Ungaliophis continentalis</i>		2130	Köhler 2008		Köhler, G. (2008). <i>Reptiles of central America</i> (No. C AC/598.109728 K64).
<i>Ungaliophis panamensis</i>		1487	IUCN		
<i>Uromastix acanthinura</i>		1823	Based on maximum elevation of GBIF occurrences		

SPECIES	Manual adjustments to range data	Elevation max (m)	Elevation source	Manual adjustments to elevation	References
<i>Varanus acanthurus</i>		931	Based on maximum elevation of GBIF occurrences		
<i>Varanus exanthematicus</i>		1400	IUCN		
<i>Varanus salvator</i>		1800	IUCN		
<i>Xantusia vigilis</i>		2830	Stebbins 2003		Stebbins, R. C. (2003). <i>Western reptiles and amphibians</i> (p. 533). Boston, MA: Houghton Mifflin Company
<i>Xenodermus javanicus</i>		1300	IUCN		
<i>Xenopeltis unicolor</i>		1300	IUCN		
<i>Xenosaurus grandis</i>		1800	Köhler 2008		Köhler, G. (2008). <i>Reptiles of central America</i> (No. C AC/598.109728 K64).
<i>Xenosaurus platyceps</i>		1876	Based on maximum elevation of GBIF occurrences		
<i>Zonosaurus ornatus</i>		2000	IUCN		