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This list updates the publication by Thomas Brennan and Andrew Holycross (2006)

Reptilia (117 species; 111 native and 6 non-native)

Testudines – Turtles (10 species; 7 native and 3 non-native)

Chelydridae (Snapping Turtles)

Chelydra Schweigger, 1812 — Snapping Turtles

H. Bradley Shaffer and colleagues (2008) concluded that *C. serpentina* is a "single, virtually invariant lineage" and did not recognize the subspecies *C. s. osceola*.

Chelydra serpentina

(Snapping Turtle)

Non-native

Emydidae (Box and Pond Turtles)

Philip Spinks and colleagues (2016) reviewed the phylogeny and temporal diversification of the New World pond turtles (Emydidae).

Chrysemys Gray, 1844 — Painted Turtles

Chrysemys picta (Schneider, 1783) — Painted Turtle

Chrysemys picta bellii

(Western Painted Turtle)

Terrapene Merrem, 1820 — American Box Turtles

Terrapene ornata (Agassiz, 1857) — Ornate Box Turtle

Terrapene ornata luteola

(Desert Box Turtle)

Protected

Bradley Martin and colleagues (2013) found no support for a distinction between the subspecies *ornata* and *luteola*, and thus recommended their synonymy. See Uwe Fritz and Peter Havaš (2014) for comments on the results of Martin and colleagues (2013).

Trachemys Agassiz, 1857 — Sliders

Trachemys scripta (Schoepff, 1792) — Pond Slider

T. s. elegans

(Red-eared Slider)

Non-native

Kinosternidae (American Mud and Musk Turtles)

Kinosternon Spix, 1824 — American Mud Turtles

John Iverson and colleagues (2013) provide updates on the phylogeny of American kinosternid turtles.

Kinosternon arizonense Kinosternon flavescens Kinosternon sonoriense (Arizona Mud Turtle) (Yellow Mud Turtle) (Sonora Mud Turtle)

Testudinidae (Tortoises)

Gopherus Rafinesque, 1832 — Gopher Tortoises

Gopherus morafkai Murphy and colleagues (2011) — Sonoran Desert Tortoise

Protected

In parts of its range, the desert tortoise was formerly recognized as *Gopherus agassizii*. Robert Murphy and colleagues (2011) provide taxonomic updates on the tortoises of North America.

Gopherus agassizii (Cooper, 1861) — Mohave Desert Tortoise

Protected

Trionychidae (Softshells)

Apalone Rafinesque, 1832 — North American Softshells

Apalone spinifera

(Spiny Softshell)

Non-native

Squamata – Lizards & Snakes (115 species; 112 native and 3 non-native)

Sauria – Lizards (63 Species; 3 non-native)

Anguidae (Glass lizards and Alligator Lizards)

Elgaria Gray, 1838 — Western Alligator Lizards

Elgaria kingii

(Madrean Alligator Lizard)

Crotaphytidae (Collard and Leopard Lizards)

Crotaphytus Holbrook, 1842 — Collared Lizards

Crotaphytus bicinctores Crotaphytus collaris Crotaphytus nebrius (Great Basin Collard Lizard) (Eastern Collard Lizard) (Sonoran Collard Lizard)

Gambelia Baird 1859 "1858" — Leopard Lizards

Gambelia wislizenii

(Long-nosed Leopard Lizard)

Eublepharidae (Terrestrial Geckos)

Coleonyx Gray, 1845 — Banded Geckos

Coleonyx variegatus

(Western Banded Gecko)

Gekkonidae (Geckos)

Hemidactylus Gray, 1825 — House Geckos

Hemidactylus turcicus

(Mediterranean House Gecko)

Non-native

Helodermatidae (Gila Monster and Beaded Lizards)

Heloderma Wiegmann, 1829 — Gila Monsters and Beaded Lizards

Heloderma suspectum

(Gila monster)

Venomous; Protected

Iguanidae (Iguanas and Relatives)

Callisaurus Blainville, 1835 — Zebra-tailed Lizards

Callisaurus draconoides

(Zebra-tailed Lizard)

Cophosaurus Troschel, 1852 "1850" — Greater Earless Lizards

Cophosaurus texanus (Greater Earless Lizard)

Dipsosaursus Hallowell, 1854 — Desert Iguanas

Dipsosaursus dorsalis (Desert Iguana)

Sauromalus Duméril, 1856 — Chuckwallas

Sauromalus ater (Common Chuckwalla)

Ctenosaura Wiegmann, 1828 — Spiny-tailed Iguanas

Ctenosaura hybrids (Spiny-tailed Iguana) Non-native

Phrynosomatidae (Horned Lizards, Spiny Lizards, and Relatives)

Holbrookia Girard, 1851 — Lesser Earless Lizards

Holbrookia maculata (Lesser Earless Lizard) Holbrookia elegans (Elegant Earless Lizard)

Phrynosoma Wiegmann, 1828 — Horned Lizards

Phrynosoma cornutum (Texas Horned Lizard)
Phrynosoma goodei (Goode's Horned Lizard)

Phrynosoma hernandesi (Greater Shorthorn Horned Lizard)

Phrynosoma mcallii (Flat-tailed Horned Lizard)
Phrynosoma modestum (Round-tailed Horned Lizard)
Phrynosoma platyrhinos (Desert Horned Lizard)

Phrynosoma platyrninos (Desert Horned Lizard)
Phrynosoma solare (Regal Horned Lizard)

Sceloporus Wiegmann, 1828 — Spiny Lizards

Sceloporus bimaculosus (Twin-spotted Spiny Lizard)
Sceloporus clarkii (Clark's Spiny Lizard)
Sceloporus cowlesi (Southwestern Fence Lizard)

Sceloporus graciosus (Sagebrush Lizard)
Sceloporus jarrovii (Yarrow's Spiny Lizard)
Sceloporus magister (Desert Spiny Lizard)
Sceloporus slevini (Slevin's Bunchgrass Lizard)

Sceloporus tristichus (Plateau Lizard)

Sceloporus uniformis (Yellow-backed Spiny Lizard)
Sceloporus virgatus (Striped Plateau Lizard)

Uma Baird, 1859 "1858" — Fringe-toed Lizards

Uma rufopunctata Uma scoparia (Yuman Fringe-toed Lizard) (Mohave Fringe-toed lizard)

Urosaurus Hallowell, 1854 — Tree and Brush Lizards

Urosaurus graciosus Urosaurus ornatus (Long-tailed Brush Lizard) (Ornate Tree Lizard)

Uta Baird and Girard, 1852 — Side-blotched Lizards

Uta stansburiana

(Side-blotched Lizard)

Scincidae (Skinks)

Plestiodon Duméril & Bibron, 1839 — Toothy Skinks ³

Plestiodon callicephalus
Plestiodon gilbert
Plestiodon multivirgatus
Plestiodon obsoletus
Plestiodon skiltonianus
(Mountain Skink)
(Gilbert's Skink)
(Many-lined Skink)
(Western Skink)

Teiidae (Whiptails, Tegus, and Relatives)

Aspidoscelis Fitzinger, 1843 — Whiptails

Aspidoscelis arizonae Aspidoscelis burti Aspidoscelis exsanguis Aspidoscelis flagellicauda Aspidoscelis neomexicana Aspidoscelis pai Aspidoscelis tigris Aspidoscelis uniparens Aspidoscelis velox Aspidoscelis xanthonota (Arizona Striped Whiptail)
(Canyon Spotted Whiptail)
(Chihuahuan Spotted Whiptail)
(Gila Spotted Whiptail)
(New Mexico Whiptail)
(Pai Striped Whiptail)
(Tiger Whiptail)
(Desert Grassland Whiptail)
(Plateau Striped Whiptail)
(Red-backed Whiptail)

Parthenogenetic Parthenogenetic Non-native

Parthenogenetic Parthenogenetic

Xantusidae (Night Lizards)

Xantusia Baird, 1859 "1858" — Night Lizards

Xantusia arizonae (Arizona Night Lizard) Xantusia bezyi (Bezy's Night Lizard) Xantusia vigilis (Desert Night Lizard)

Serpentes – Snakes (53 species, all native)

Leptotyphlopidae (Threadsnakes)

Rena Baird and Girard, 1853 — Threadsnakes

Solný Adalsteinsson and colleagues (2009) demonstrated that the former genus *Leptotyphlops* was composed of two large clades each composed of Old World or New World taxa. The type for the genus *Leptotyphlops* is associated with Old World taxa, leaving the clade of North and Central American threadsnakes as *Rena*, which has been restored.

Rena dissecta (New Mexico Threadsnake) Rena humilus (Western Threadsnake)

Boidae (Boas)

Lichanura Cope, 1861 — Rosy Boas

Dustin Wood and colleagues (2008) used mtDNA and found three main clades within *trivirgata* that do not correspond to currently recognized subspecies. They concluded that these clades corresponded to two species, *Lichanura orcutti* and *Lichanura trivirgata*.

Lichanura orcutti (Rosy Boa)

Lichanura trivirgata (Three-lined Rosy Boa)

Colubridae (Colubrids or "Advanced" Snakes)

Arizona Kennicott, in Baird, 1859 — Glossy Snakes

Further study of the Arizona group may result in taxonomic revision (SSAR, 2017).

Arizona elegans (Glossy Snake)

Chilomeniscus Cope, 1860 — Sandsnakes

Chilomeniscus stramineus (Variable Sandsnake)

Chionactis Cope, 1860 — Shovel-nosed Snakes

Chionactis palarostris (Sonoran Shovel-nosed Snake) Chionactis occipitalis (Western Shovel-nosed Snake)

Coluber Linnaeus, 1758—North American Racers

Coluber constrictor (North American Racer)

Diadophis Baird and Girard, 1853 — Ring-necked Snakes

There is robust evidence that more than one species (lineage) exists in *Diadophis*.

Feldman and Spicer (2006) and Fontanella and colleagues (2008) discovered at least 14 lineages of *Diadophis* that were not congruent with the geographic range of described subspecies. See Frank Fontanella and Mark E. Siddall (2009).

Diadophis punctatus regalis (Regal Ring-necked Snake)

Gyalopion Cope, 1861 — Western Hook-nosed Snakes

Gyalopion canum (Chihuahuan Hook-nosed Snake) Gyalopion quadrangulare (Thornscrub Hook-nosed Snake)

Heterodon Latreille, 1801 — North American Hog-nosed Snakes

Heterodon kennerlyi (Mexican Hog-nosed Snake)

Hypsiglena Cope, 1860 — North American Nightsnakes

Mulcahy (2008) recognized six species in formerly what was recognized as a single taxon (sensu *Hypsiglena torquata*). Of these, five were are consistent with previously described subspecies, and one represents a unique lineage (species) that is undescribed from the biogeographic region known as Cochise Filter Barrier of southeastern Arizona and New Mexico. Currently, *Hypsiglena torquata* is restricted to Mexico, and three described species occur in the United States.

Hypsiglena chlorophaea (Desert Nightsnake) Hypsiglena jani (Chihuahuan Nightsnake)

Lampropeltis Fitzinger, 1843 — Kingsnakes and Milksnakes

Alexander Pyron & Frank Burbrink (2009 a, b) elevated many of the subspecies of *Lampropeltis getula* to full species. Changes in milksnake taxonomy are provided by Sara Ruana and colleagues (2014, 2015). See P. David Polly and colleagues (2016) for information on geometric morphometrics in taxonomy. Taxonomic changes of mountain kingsnakes of Arizona and Mexico are presented by Frank Burbrink and colleagues (2011).

Lampropeltis californiae (California Kingsnake)
Lampropeltis nigrita (Western Black Kingsnake)

Lampropeltis splendida (Desert Kingsnake) Lampropeltis gentilis (Western Milk)

Lampropeltis pyromelana (Arizona Mountain Kingsnake) Lampropeltis knoblochi (Madrean Mountain Kingsnake)

Masticophis Linnaeus, 1758 — North American Racers, Coachwhips, and Whipsnakes

For a recent taxonomic review of this group, see Edward Myers and colleagues (2017).

Masticophis bilineatus (Sonoran Whipsnake)
Masticophis taeniatus (Striped Whipsnake)

Masticophis flagellum (Coachwhip)

Oxybelis Wagler, 1830 — American Vinesnakes

Oxybelis aeneus (Brown Vinesnake)

Pituophis Holbrook, 1842 — Bullsnakes, Pinesnakes, and Gophersnakes

Further study of the Pituophis group may result in taxonomic revision (SSAR, 2017).

Pituophis catenifer (Gophersnake)

Pituophis catenifer affinis (Sonoran Gophersnake)

Phyllorhynchus Stejneger, 1890 — Leaf-nosed Snakes

Phyllorhynchus browni (Saddled Leaf-nosed Snake)
Phyllorhynchus decurtatus (Spotted Leaf-nosed Snake)

Rhinocheilus Baird and Girard, 1853—Longnosed Snakes

Rhinocheilus lecontei (Long-nosed Snake)

Salvadora Baird & Girard, 1853 — Patch-nosed Snakes

Salvadora grahamiae (Eastern Patch-nosed Snake) Salvadora hexalepis (Western Patch-nosed Snake)

Senticolis Dowling and Fries, 1987 — Green Ratsnakes

Senticolis triaspis intermedia (Northern Green Ratsnake)

Sonora Baird and Girard, 1853 — North American Groundsnakes

Sonora semiannulata (Western Groundsnake)

Trimorphodon Cope, 1861 — Lyresnakes

Trimorphodon lambda (Sonoran Lyresnake)

Tantilla Baird and Girard, 1853 — Black-headed Snakes

Tantilla hobartsmithi(Smith's Black-headed Snake)Tantilla nigriceps(Plain's Black-headed Snake)Tantilla wilcoxi(Chihuahuan Black-headed Snake)

Tantilla yaquia (Yaqui Black-headed Snake)

Thamnophis Fitzinger, 1843 — North American Gartersnakes

Thamnophis c. cyrtopsis (Western Black-necked Gartersnake)

Thamnophis elegans vagrans (Wandering Gartersnake)
Thamnophis marcianus (Checkered Gartersnake)
Thamnophis eques (Mexican Gartersnake)

Thamnophis eques (Mexican Gartersnake) Protected
Thamnophis rufipunctatus (Narrow-headed Gartersnake) Protected

Taxonomic changes for Mexican populations of this lineage are in Dustin Wood and colleagues (2011).

Elapidae (1 species, native). DANGEROUSLY VENOMOUS

Micruroides Schmidt, 1928 — Sonoran Coralsnakes

Micruroides euryxanthus (Kennicott, 1860) — Sonoran Coralsnake

Micruroides e. euryxanthus (Arizona Coralsnake)

Viperidae (16 species, all native). DANGEROUSLY VENOMOUS

Crotalus Linnaeus, 1758 — Rattlesnakes

Michael Douglas and colleagues (2002) elevated most of the subspecies of *Crotalus viridis* and synonymized *C. v. nuntius* with *C. v. viridis*.

Davis and colleagues (2016) combined mtDNA and geometric morphometric analyses to provide support for Douglas et al. (2002) and the six species proposed within the *Crotalus viridis* rattlesnake group.

Western Group (sometimes called the Crotalus viridis group)

Crotalus abyssus (Grand Canyon Rattlesnake)
Crotalus cerberus (Arizona Black Rattlesnake)
Crotalus concolor (Midget Faded Rattlesnake)
Crotalus lutosus (Great Basin Rattlesnake)
Crotalus viridis (Prairie Rattlesnake)

For recent studies of lineage diversity in Crotalus atrox, see Drew Schield and colleagues (2015).

Crotalus atrox (Western Diamond-backed Rattlesnake)

Michael Douglas and colleagues (2006) used mtDNA and found several geographically distinct lineages within *C. cerastes*. Only one of these lineages corresponded to a recognized subspecies. (*C. c. laterorepens*).

Crotalus cerastes (Sidewinder)

Crotalus c. cerastes (Mohave Desert Sidewinder)

Crotalus c. cercobombus (Sonoran Sidewinder)

Crotalus c. laterorepens (Colorado Desert Sidewinder)

Crotalus lepidus klauberi (Banded Rock Rattlesnake)
Crotalus molossus (Black-tailed Rattlesnake)
Crotalus pricei (Twin-spotted Rattlesnake)
Crotalus scutulatus (Mohave Rattlesnake)

Jesse M. Meik and colleagues (2015) demonstrated that *Crotalus mitchellii pyrrhus* is a distinct species from *Crotalus mitchellii*, which is now restricted to Baja California, Mexico. The new arrangement is *Crotalus pyrrhus*.

Crotalus pyrrhus (Southwestern Speckled Rattlesnake)

Crotalus tigris (Tiger Rattlesnake)

David G. Barker (2016) proposed elevating the 5 subspecies of Crotalus willardi to species.

Crotalus obscurus (New Mexico Ridge-nosed Rattlesnake)

Crotalus willardi (Arizona Ridge-nosed Rattlesnake)

Sistrurus Garman, 1883 — Massauga and Pygmy Rattlesnakes

Sistrurus catenatus (Rafinesque, 1818) — Eastern Massasauga

Sistrurus tergeminus (Western Massasauga)

Andrew T Holycross and colleagues (2008) discuss taxonomic mistakes and corrective procedures for this taxon. A molecular (DNA) analysis by Laura S. Kubatko and colleagues (2011) revealed two distinct groups (clades) among the three subspecies of *Sistrurus catenatus*. One clade contained the eastern subspecies (*Sistrurus. c. catenatus*) and the other clade contained the two western subspecies (*S. c. tergeminus* and *S. c. edwardsii*). The SSAR (2017) follows the recommendation of Kubatko et al. (2011) and recognizes *Sistrurus tergeminus* as a species; no recognized subspecies for *S. catenatus*.

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