

Amphibians and Reptiles of Costa Rica

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INTRODUCTION

The list of the amphibians and reptiles of Costa Rica continues to grow. In addition, as knowledge increases there are ongoing changes in nomenclature. Following the comprehensive coverage of [Savage \(2002\)](#) a revised list of taxa was published by [Savage and Bolaños \(2009a\)](#). We now present an updated electronic version that will be revised on a continuing basis. Explanatory comments and cross reference are from [Savage and Bolaños \(2009a\)](#).

The number in parenthesis following each taxon above the species level indicates the number of species included. Following the names of higher taxa is the number of families and the number of genera (in brackets) included. Asterisks denotes introduced taxa. We wish to thank all those individuals who have provided us with publications and comments to contribute to this updated list and in advance we acknowledge all who continue with this collaboration.

HERPETOFAUNA OF COSTA RICA 47[157](435)

CLASS AMPHIBIA Linné, 1758 17[49](196)

ORDER ANURA Hogg, 1939 14[43](145)

FAMILY AROMOBATIDAE Grant, Frost, Caldwell, Gagliardo, Haddad, Kok, Means, Noonan, Schargel & Wheeler, 2006 1

Allobates Zimmermann & Zimmermann, 1988 (1)

Allobates talamancae (Cope, 1875)

FAMILY BUFONIDAE J. E. Gray, 1825 [5](18)

Atelopus C. Duméril & Bibron, 1841 (4)

Atelopus chiriquiensis Shreve, 1936

Atelopus chirripoensis [Savage & Bolaños, 2009b](#)

Atelopus senex Taylor, 1952

Atelopus varius (Lichtenstein & Martens, 1856)

Chaunus Wagler, 1828 (1)

Chaunus marinus (Linné, 1758)

Crepidophryne Cope, 1889 (3)

Crepidophryne chompipe Vaughan & Mendelson, 2007

Crepidophryne epiotica (Cope, 1875)

Crepidophryne guanacaste Vaughan & Mendelson, 2007

Incilius Cope, 1863 (9)

Incilius aucoinae (O'Neill & Mendelson, 2004)

Incilius coccifer (Cope, 1866)

Incilius coniferus (Cope, 1862)

Incilius fastidiosus (Cope, 1875)

Incilius holdridgei (Taylor, 1952)

Incilius luetkenii (Boulenger, 1891)

Incilius melanochlorus (Cope, 1877)

Incilius periglenes (Savage, "1966", 1967)

Incilius valliceps (Wiegmann, 1833)

Rhaebo Cope, 1862 (1)

Rhaebo haematiticus Cope, 1862

FAMILY CENTROLENIDAE Taylor, 1951 [5](13)

The generic classification follows [Guayasamin et al. \(2009\)](#).

Cochranella Taylor, 1951 (2)

Cochranella euknemos (Savage & Starrett, 1967)

Cochranella granulosa (Taylor, 1949)

Espadarana [Guayasamin, Castroviejo-Fisher, Trueb, Ayarzagüena, Rada & Vilá, 2009](#) (1)

The following species was included in *Centrolenella* by [Savage and Bolaños \(2009a\)](#).

Espadarana prosoblepon (Boettger, 1892)

Hyalinobatrachium Ruiz-Carranza & Lynch, 1991 (6)

Hyalinobatrachium chirripoi (Taylor, 1958)

Hyalinobatrachium colymbiphylum (Taylor, 1949)

Hyalinobatrachium fleischmanni (Boettger, 1893)

Hyalinobatrachium talamancae (Taylor, 1952)

Hyalinobatrachium valerioi (Dunn, 1931)

Hyalinobatrachium vireovittatum (Starrett & Savage, 1973)

Sachatamia [Guayasamin, Castroviejo-Fisher, Trueb, Ayarzagüena, Rada & Vilá, 2009](#) (2)

The following species was included in *Cochranella* by [Savage and Bolaños \(2009a\)](#).

Sachatamia albomaculata (Taylor, 1949)

The following species was included in *Centrolenella* by [Savage and Bolaños \(2009a\)](#).

Sachatamia ilex Savage, 1967

Teratohyla Taylor, 1951 (2)

The following species were included in *Cochranella* by [Savage and Bolaños \(2009a\)](#).

Teratohyla pulverata (W. Peters, 1873)

Teratohyla spinosa (Taylor, 1949)

FAMILY CRAUGASTORIDAE Hedges, Duellman & Heinicke, 2008 [1](28)

Craugastor Cope, 1862 (28)

Craugastor andi (Savage, 1974)

Craugastor angelicus (Savage, 1975)

Craugastor bransfordii (Cope, "1885", 1886)

Craugastor catalinae (Campbell & Savage, 2000)

Craugastor crassidigitus (Taylor, 1952)

Craugastor cuaquero (Savage, 1980)

Craugastor escoces (Savage, 1975)

Craugastor fitzingeri (O. Schmidt, 1857)

Craugastor fleischmanni (Boettger, 1892)

Craugastor gollmeri (W. Peters, 1863)

Craugastor gulosus (Cope, 1875)

Craugastor megacephalus (Cope, 1875)

Craugastor melanostictus (Cope, 1875)

Craugastor mimus (Taylor, 1955)

Craugastor noblei (Barbour & Dunn, 1921)

Craugastor obesus (Barbour, 1928)

Craugastor persimilis (Barbour, 1926)

Craugastor phasma (Lips & Savage, 1996)

Craugastor podiciferus (Cope, 1875)

Craugastor polyptychus (Cope, "1885", 1886)

Craugastor ranoides (Cope, "1885", 1886)

Craugastor rayo (Savage & DeWeese, 1979)
Craugastor rhyacobatrachus (Campbell & Savage, 2000)
Craugastor rugosus (W. Peters, 1873)
Craugastor stejnerianus (Cope, 1893)
Craugastor talamancae (Dunn, 1931)
Craugastor taurus (Taylor, 1958)
Craugastor underwoodi (Boulenger, 1896)

FAMILY DENDROBATIDAE Cope, 1865 (1850) [4](7)

Dendrobates Wagler, 1830 (1)

Dendrobates auratus (Girard, "1854", 1855)

Oophaga Bauer, 1994 (2)

Oophaga granulifera (Taylor, 1958)

Oophaga pumilio (O. Schmidt, 1857)

Phyllobates C. Duméril & Bibron, 1841 (2)

Phyllobates lugubris (O. Schmidt, 1857)

Phyllobates vittatus (Cope, 1893)

Silverstoneia Grant, Frost, Caldwell, Gagliardo, Haddad, Kok, Means, Noonan, Schargel & Wheeler, 2006 (2)

Silverstoneia flotator (Dunn, 1931)

Silverstoneia nubicola (Dunn, 1924)

FAMILY ELEUTHERODACTYLIDAE Lutz, 1954 [2](7)

Diasporus Hedges, Duellman & Heinicke, 2008 (5)

Diasporus diastema (Cope, 1875)

Diasporus hylaeformis (Cope, 1875)

Diasporus tigrillo (Savage, 1997)

Diasporus ventrimaculatus [Chaves, García-Rodríguez, Mora & Leal, 2009](#)

Diasporus vocator (Taylor, 1955)

**Eleutherodactylus* C. Duméril & Bibron, 1841 (2)

The following species was recently collected (UCR 20746-20747) in Turrialba.

Eleutherodactylus coqui* Thomas, 1966, **addition to fauna

[AmphibiaWeb \(2009\)](#) does not list the following species for Costa Rica because it is introduced and without established populations ([Savage and Bolaños 2009a](#)).

**Eleutherodactylus johnstonei* Barbour, 1914

FAMILY HEMIPHRACTIDAE Peters, 1862 1

Gastrotheca Fitzinger, 1843 (1)

Gastrotheca cornuta (Boulenger, 1898)

FAMILY HYLIDAE Rafinesque, 1815 [15](43)

SUBFAMILY HYLINAE Rafinesque, 1815 [13](37)

Anotheca H. M. Smith, 1939 (1)

Anotheca spinosa (Steindachner, 1864)

Dendropsophus Fitzinger, 1843 (3)

Dendropsophus ebraccatus (Cope, 1874)

Dendropsophus microcephalus (Cope, "1885", 1886)

Dendropsophus phlebodes (Stejneger, 1906)

Duellmanohyla Campbell & E. Smith, 1992 (3)

- Duellmanohyla lythrodes* (Savage, 1968)
Duellmanohyla rufiocularis (Taylor, 1952)
Duellmanohyla uranochroa (Cope, 1875)
Ecnomiohyla Faivovich, Haddad, Garcia, Frost, Campbell & Wheeler, 2005 (3)
Ecnomiohyla fimbrimembra (Taylor, 1948)
Ecnomiohyla miliaria (Cope, "1885", 1886)
 The following species was included as *Ecnomiohyla miliaria* by [Savage and Bolaños 2009a](#). It was recognized as different by [Savage and Kubicki \(2010\)](#).
Ecnomiohyla sukia [Savage & Kubicki, 2010](#)
Hyloscirtus W. Peters, 1882 (2)
Hyloscirtus colymba (Dunn, 1931)
Hyloscirtus palmeri (Boulenger, 1908)
Hypsiboas Wagler, 1830 (2)
Hypsiboas rosenbergi (Boulenger, 1898)
Hypsiboas rufitelus (Fouquette, 1961)
Isthmohyla Faivovich, Haddad, Garcia, Frost, Campbell & Wheeler, 2005 (11)
Isthmohyla angustilineata (Taylor, 1952)
Isthmohyla calypsa (Lips, 1996)
Isthmohyla debilis (Taylor, 1952)
Isthmohyla lancasteri (Barbour, 1928)
Isthmohyla picadoi (Dunn, 1937)
Isthmohyla pictipes (Cope, 1875)
Isthmohyla pseudopuma (Günther, 1901)
Isthmohyla rivularis (Taylor, 1952)
Isthmohyla tica (Starrett, 1966)
Isthmohyla xanthosticta (Duellman, 1968)
Isthmohyla zeteki (Gauge, 1929)
 **Osteopilus* Fitzinger, 1843 (1)
 **Osteopilus septentrionalis* (C. Duméril & Bibron, 1841)
Ptychohyla Taylor, 1944 (1)
Ptychohyla legleri (Taylor, 1958)
Scinax Wagler, 1830 (3)
Scinax boulengeri (Cope, 1887)
Scinax elaeochroa (Cope, 1875)
Scinax staufferi (Cope, 1865)
Smilisca Cope, 1865 (5)
Smilisca baudinii (C. Duméril & Bibron, 1841)
Smilisca phaeota (Cope, 1862)
Smilisca puma (Cope, "1884", 1885)
Smilisca sila Duellman & Trueb, 1966
Smilisca sordida (W. Peters, 1863)
Tlalocohyla Faivovich, Haddad, Garcia, Frost, Campbell & Wheeler, 2005 (1)
Tlalocohyla loquax (Gauge & Stuart, 1934)
Trachycephalus Tschudi, 1838 (1)
Trachycephalus venulosus (Laurenti, 1768)
 SUBFAMILY PHYLLomedusinae Günther, 1858 [2](6)
Agalychnis Cope, 1864 (5)
Agalychnis annae (Duellman, 1963)
Agalychnis callidryas (Cope, 1862)

The following species was included in the genus *Hylomantis* by [Savage and Bolaños \(2009a\)](#) but was referred to *Agalychnis* by [Faivovich et al. \(2009\)](#).

Agalychnis lemur (Boulenger, 1882)

Agalychnis saltator Taylor, 1955

Agalychnis spurrelli Boulenger, 1913

Cruzirohyla Faivovich, Haddad, Garcia, Frost, Campbell & Wheeler, 2005 (1)

Cruzirohyla calcarifer (Boulenger, 1902)

FAMILY LEIUPERIDAE Bonaparte, 1850 1

Engystomops Jiménez de la Espada, 1872 (1)

Engystomops pustulosus (Cope, 1864)

FAMILY LEPTODACTYLIDAE Werner, 1896 (1838) [1](5)

Leptodactylus Fitzinger, 1826 (5)

Leptodactylus fragilis (Brocchi, 1877)

Leptodactylus insularum Barbour, 1906

Leptodactylus melanonotus (Hallowell, "1860", 1861)

Leptodactylus poecilochilus (Cope, 1862)

Leptodactylus savagei Heyer, 2005

FAMILY MICROHYLIDAE Günther, "1858", 1859 3

Gastrophryne Fitzinger, 1843 (1)

Gastrophryne pictiventris (Cope, "1885", 1886)

Hypopachus Keferstein, 1867 (1)

Hypopachus variolosus (Cope, 1866)

Nelsonophryne Frost, 1987 (1)

Nelsonophryne aterrima (Günther, 1900)

FAMILY RANIDAE Rafinesque, 1814 [1](6)

Lithobates Fitzinger, 1843 (6)

[AmphibiaWeb \(2009\)](#) does not list the following species for Costa Rica because it is introduced and without established populations ([Savage and Bolaños 2009a](#)).

**Lithobates catesbeianus* (Shaw, 1802)

Lithobates forreri (Boulenger, 1883)

Lithobates taylori (H. M. Smith, 1959)

Lithobates vaillanti (Brocchi, 1877)

Lithobates vibicarius (Cope, 1894)

Lithobates warszewitschii (O. Schmidt, 1857)

FAMILY RHINOPHRYNIDAE Günther, "1858", 1859 1

Rhinophrynus C. Duméril & Bibron, 1841 (1)

Rhinophrynus dorsalis C. Duméril & Bibron, 1841

FAMILY STRABOMANTIDAE Hedges, Duellman & Heinicke, 2008 [2](11)

Pristimantis Jiménez de la Espada, "1870", 1871 (10)

Pristimantis altae (Dunn, 1942)

Pristimantis caryophyllaceus (Barbour, 1928)

Pristimantis cerasinus (Cope, 1875)

Pristimantis cruentus (W. Peters, 1873)

Pristimantis educatoris [Ryan, Lips & Giermakowski, 2010](#)

Pristimantis gaigeae (Dunn, 1931)

Pristimantis moro (Savage, 1965)

Pristimantis pardalis (Barbour, 1928)

Pristimantis ridens (Cope, 1866)

The following species was recently collected (UCR 20301-20303) in the area of La Lucha and Tres Colinas in the Talamanca mountain range.

Pristimantis taeniatus (Boulenger, 1912), **addition to fauna**

Strabomantis Peters, 1863 (1)

Strabomantis bufoniformis (Boulenger, 1896)

ORDER CAUDATA Scopoli, 1777 1[3](44)

FAMILY PLETHODONTIDAE J. E. Gray, 1850 [3](44)

Bolitoglossa C. Duméril, Bibron & A. Duméril, 1854 (23)

[Frost \(2009\)](#) lists *Bolitoglossa anthracina* and *Bolitoglossa pygmaea* as possibly occurring in Costa Rica. They are known from localities in western Panama near the Costa Rica frontier but have not been collected in Costa Rica.

Subgénero *Bolitoglossa* C. Duméril, Bibron & A. Duméril, 1854 (2)

Bolitoglossa lignicolor (W. Peters, 1873)

Bolitoglossa striatula (Noble, 1918)

Subgénero *Eladinea* Miranda Ribeiro, 1937 (20)

Bolitoglossa bramei Wake, Savage & Hanken, 2007

Bolitoglossa cerroensis (Taylor, 1952)

Bolitoglossa colonea (Dunn, 1924)

Bolitoglossa compacta Wake, Brame & Duellman, 1973

Bolitoglossa diminuta Robinson, 1976

Bolitoglossa epimela Wake & Brame, 1963

Bolitoglossa gomezi Wake, Savage & Hanken, 2007

Bolitoglossa gracilis Bolaños, Robinson & Wake, 1987

Bolitoglossa marmorea (Tanner & Brame, 1961)

Bolitoglossa minutula Wake, Brame & Duellman, 1973

Bolitoglossa nigrescens (Taylor, 1949)

Bolitoglossa obscura Hanken, Wake & Savage, 2005

Bolitoglossa pesrubra (Taylor, 1952)

Bolitoglossa robinsoni Bolaños & Wake, 2009

Bolitoglossa robusta (Cope, 1894)

Bolitoglossa schizodactyla Wake & Brame, 1966

Bolitoglossa sombra Hanken, Wake & Savage, 2005

Bolitoglossa sooyorum Vial, 1963

Bolitoglossa subpalmata (Boulenger, 1896)

Bolitoglossa tica García-París, Parra-Olea & Wake, 2008

Subgénero *Pachymandra* Parra-Olea, García-París & Wake, 2004 (1)

Bolitoglossa alvaradoi Taylor, 1954

Nototriton Wake & Elias, 1983 (7)

Nototriton abscondens (Taylor, 1948)

Nototriton gamezi García-París & Wake, 2000

Nototriton guanacaste Good & Wake, 1993

Nototriton major Good & Wake, 1993

- Nototriton picadoi* (Stejneger, 1911)
Nototriton richardi (Taylor, 1949)
Nototriton tapanti Good & Wake, 1993
Oedipina Keferstein, 1868 (14)
Oedipina alfaroi Dunn, 1921
Oedipina alleni Taylor, 1954
Oedipina altura Brame, 1968
Oedipina carablanca Brame, 1968
Oedipina collaris (Stejneger, 1907)
Oedipina cyclocauda Taylor, 1952
Oedipina gracilis Taylor, 1952
Oedipina grandis Brame & Duellman, 1970
Oedipina pacificensis Taylor, 1952
Oedipina paucidentata Brame, 1968
Oedipina poelzi Brame, 1963
Oedipina pseudouniformis Brame, 1968
Oedipina savagei García-París & Wake, 2000
Oedipina uniformis Keferstein, 1868

ORDER GYMNOPHIONA Müller, 1832 2[3](7)

FAMILY CAECILIIDAE Rafinesque, 1814 1

- Osaecilia* Taylor, 1968 (1)
Osaecilia osae Lahanas & Savage, 1992

The following family was included as Caeciliidae by [Savage and Bolaños \(2009a\)](#), it was recognized as different by [Wilkinson et al. \(2011\)](#)

FAMILY DERMOPHIIDAE Taylor, 1969 [2](6)

- Dermophis* W. Peters, 1880 (5)
Dermophis costaricense Taylor, 1955
Dermophis glandulosus Taylor, 1955
Dermophis gracilior Günther, 1902
Dermophis occidentalis Taylor, 1955
Dermophis parviceps (Dunn, 1924)
Gymnopsis W. Peters, 1874 (1)
Gymnopsis multiplicata W. Peters, 1874

CLASE REPTILIA Laurenti, 1768 30[108](239)

ORDER CROCODILIA Gmelin, "1788", 1789 22

FAMILY ALLIGATORIDAE Cuvier, 1807 1

- Caiman* Spix, 1825 (1)
Caiman crocodilus (Linné, 1758)

FAMILY CROCODYLIDAE Gmelin, "1788", 1789 1

- Crocodylus* Laurenti, 1768 (1)
Crocodylus acutus (Cuvier, 1807)

ORDER SQUAMATA Opper, 1811 22[97](222)**SUBORDER SAURIA Macartney, 1802 11[33](83)****FAMILY ANGUIDAE J. E. Gray, 1825 [4](7)***Celestus* J. E. Gray, 1839 (3)*Celestus cyanochloris* Cope, 1894*Celestus hylaius* Savage & Lips, 1993*Celestus orobius* Savage & Lips, 1993*Coloptychon* Tihen, 1943 (1)*Coloptychon rhombifer* (W. Peters, 1876)*Diploglossus* Wiegmann, 1834 (2)*Diploglossus bilobatus* (O'Shaughnessy, 1874)*Diploglossus monotropis* (Kuhl, 1820)*Mesaspis* Cope, 1877 (1)*Mesaspis monticola* (Cope, "1878", 1877)**FAMILY CORYTOPHANIDAE Fitzinger, 1843 [2](4)***Basiliscus* Laurenti, 1768 (3)*Basiliscus basiliscus* (Linné, 1758)*Basiliscus plumifrons* Cope, 1875*Basiliscus vittatus* Wiegmann, 1828*Corytophanes* Boie in Schlegel, 1827 (1)*Corytophanes cristatus* (Merrem, "1821", 1822)**FAMILY EUBLEPHARIDAE Boulenger, 1883 1***Coleonix* J. E. Gray, 1845 (1)*Coleonix mitratus* (W. Peters, 1863)**FAMILY GEKKONIDAE J. E. Gray, 1845 [7](12)****SUBFAMILY GEKKONINAE J. E. Gray, 1845 [4](6)****Hemidactylus* Oken, 1817 (3)**Hemidactylus frenatus* Schlegel, 1836**Hemidactylus garnoti* C. Duméril & Bibron, 1836**Hemidactylus mabouia* (Moreau de Jonnés, 1818)**Lepidodactylus* Fitzinger, 1843 (1)**Lepidodactylus lugubris* (C. Duméril & Bibron, 1836)*Phyllodactylus* J. E. Gray, 1828 (1)*Phyllodactylus tuberculosus* Wiegmann, "1834", 1835*Thecadactylus* Oken, 1817 (1)*Thecadactylus rapicauda* (Houttuyn, 1782)**SUBFAMILY SPHAERODACTYLINAE Underwood, 1954 [3](6)***Gonatodes* Fitzinger, 1843 (1)*Gonatodes albogularis* (C. Duméril & Bibron, 1836)*Lepidoblepharis* Peracca, 1897 (1)*Lepidoblepharis xanthostigma* (Noble, 1916)*Sphaerodactylus* Wagler, 1830 (4)*Sphaerodactylus graptolaemus* Harris & Kluge, 1984*Sphaerodactylus homolepis* Cope, "1885", 1886

Sphaerodactylus millepunctatus Hallowell, "1860", 1861
Sphaerodactylus pacificus Stejneger, 1903

FAMILY GYMNOPHTHALMIDAE MacLean, 1974 6

Anadia J. E. Gray, 1845 (1)
Anadia ocellata J. E. Gray, 1845
Bachia J. E. Gray, 1845 (1)
Bachia blairi (Dunn, 1940)
Gymnophthalmus Merrem, 1820 (1)
Gymnophthalmus speciosus (Hallowell, "1860", 1861)
Leposoma Spix, 1825 (1)
Leposoma southi Ruthven & Gaige, 1924
Potamites Doan & Castoe, 2005 (1)
Potamites apodemus (Uzzell, 1966)
Ptychoglossus Boulenger, 1890 (1)
Ptychoglossus plicatus (Taylor, 1949)

FAMILY IGUANIDAE Gray, 1827 [2](3)

Ctenosaura Wiegmann, 1828 (2)
Ctenosaura quinquecarinata (J. E. Gray, 1842)
Ctenosaura similis (J. E. Gray, 1831)
Iguana Laurenti, 1768 (1)
Iguana iguana (Linné, 1758)

FAMILY PHRYNOSOMATIDAE Fitzinger, 1843 [1](3)

Sceloporus Wiegmann, 1828 (3)
Sceloporus malachiticus Cope, 1864
Sceloporus squamosus Bocourt, 1874
Sceloporus variabilis Wiegmann, 1834

FAMILY POLYCHROTIDAE Fitzinger, 1843 [4](36)

**Ctenonotus* Fitzinger, 1843 (1)
**Ctenonotus cristatellus* (C. Duméril & Bibron, 1837)
Dactyloa Wagler, 1830 (4)
Dactyloa frenata (Cope, 1899)
The following species was included in *Dactyloa chocorum* by [Savage and Bolaños \(2009a\)](#) but was recognized as distinct by [Poe et al. \(2009\)](#).
Dactyloa ibanezi ([Poe, Latella, Ryan & Schaad, 2009](#))
Dactyloa insignis (Cope, 1871)
Dactyloa microtus (Cope, 1871)
Norops Wagler, 1830 (30)
Norops altae (Dunn, 1930)
Norops aquaticus (Taylor, 1956)
Norops auratus (Daudin, 1802)
Norops biporcatus (Wiegmann, 1834)
Norops capito (W. Peters, 1863)
Norops carpenteri (A. A. Echelle, A. F. Echelle & Fitch, 1971)
The following species was included in *Norops pentaprion* by [Savage and Bolaños \(2009a\)](#) but was recognized as distinct by [Köhler \(2010\)](#)

Norops charlesmyersi ([Köhler, 2010](#))

Norops cryptolimifrons (Köhler & Sunyer, 2008)

Norops cupreus (Hallowell, "1860", 1861)

The following species was recently collected in Sitio Las Tablas ([Köhler and Vargas 2010](#))

Norops datzorom (Köhler, Ponce, Sunyer & Batista, 2007), **addition to fauna**

Norops fungosus (C. Myers, 1971)

Norops humilis (W. Peters, 1863)

Norops intermedius (W. Peters, 1863)

Norops kemptoni (Dunn, 1940)

Norops lemurinus (Cope, 1861)

Norops limifrons (Cope, 1862)

Norops marsupialis (Taylor, 1956)

The following species was included in *Norops altae* by [Savage and Bolaños \(2009a\)](#) but was recognized as distinct by [Köhler \(2009\)](#)

Norops monteverde ([Köhler, 2009](#))

Norops oxylophus (Cope, 1875)

Norops pachypus (Cope, 1875)

Norops pentaprion (Cope, 1862)

Norops polylepis (W. Peters, "1873", 1874)

Norops quaggulus (Cope, 1885)

**Norops sagrei* (C. Duméril and Bibron, 1837)

The following species was included in *Norops vociferans* by [Savage and Bolaños \(2009a\)](#) and recognized as a synonym by [Köhler \(2007\)](#).

Norops salvini (Boulenger, 1885)

The following species was included in *Norops altae* by [Savage and Bolaños \(2009a\)](#) but was recognized as distinct by [Köhler \(2011\)](#).

Norops tenorioensis ([Köhler, 2011](#))

Norops townsendi (Stejneger, 1900)

Norops tropidolepis (Boulenger, 1885)

The following species was included in *Norops sericeus* by [Savage and Bolaños \(2009a\)](#) but was recognized as distinct by [Köhler and Vesely \(2010\)](#) and represents the Costa Rican species of the species complex..

Norops unilobatus ([Köhler & Vesely, 2010](#))

Norops woodi (Dunn, 1940)

Polychrus Cuvier, "1817", 1816 (1)

Polychrus gutturosus Berthold, 1845

FAMILY SCINCIDAE J. E. Gray, 1825 3

Mabuya Fitzinger, 1826 (1)

Mabuya unimarginata Cope, 1862

Mesoscincus Griffith, Ngo & Murphy, 2000 (1)

Mesoscincus managuae (Dunn, 1933)

Sphenomorphus Fitzinger, 1843 (1)

Sphenomorphus cherriei (Cope, 1893)

FAMILY TEIIDAE J. E. Gray, 1827 [2](6)

Ameiva Meyer, 1795 (5)

Ameiva ameiva (Linné, 1758)

Ameiva festiva (Lichtenstein & von Martens, 1856)

- Ameiva leptophrys* (Cope, 1893)
- Ameiva quadrilineata* (Hallowell, "1860", 1861)
- Ameiva undulata* (Wiegmann, 1834)
- Aspidoscelis* Fitzinger, 1843 (1)
- Aspidoscelis deppii* (Wiegmann, 1834)

FAMILY XANTUSIIDAE Baird, 1859 [1](2)

- Lepidophyma* A. Duméril, 1851 (2)
- Lepidophyma flavimaculatum* A. Duméril, 1851
- Lepidophyma reticulatum* Taylor, 1955

SUBORDER SERPENTES Linné, 1758 11[64](139)

FAMILY ANOMALEPIDIDAE Taylor, 1939 3

- Anomalepis* Jan in Jan & Sordelli, 1860 (1)
- Anomalepis mexicanus* Jan in Jan & Sordelli, 1860
- Helminthophis* W. Peters, 1860 (1)
- Helminthophis frontalis* (W. Peters, 1860)
- Liotyphlops* W. Peters, 1881 (1)
- Liotyphlops albirostris* (W. Peters, 1857)

FAMILY BOIDAE J. E. Gray, 1825 [3](4)

- Boa* Linné, 1758 (1)
- Boa constrictor* Linné, 1758
- Corallus* Daudin, 1803 (2)
- Corallus annulatus* (Cope, 1875)
- Corallus ruschenbergerii* (Cope, 1875)
- Epicrates* Wagler, 1830 (1)
- Epicrates maurus* Gray, 1849

FAMILY COLUBRIDAE Oppel, "1810", 1811 [19](39)

Various authors have recently proposed major changes in the classification of snakes of this family. We follow [Zaher et al. \(2009\)](#) in referring only the genera included in the Colubrinae by [Savage and Bolaños \(2009a\)](#) to this family.

- Chironius* Fitzinger, 1826 (3)
- Chironius exoletus* (Linné, 1758)
- The following species, included in *Chironius carinatus* by [Savage and Bolaños \(2009a\)](#), was removed from the synonymy of that species by [Hollis \(2006\)](#).
- Chironius flavopictus* (Werner, 1909)
- Chironius grandisquamis* (W. Peters, 1868)
- Coluber* Linné, 1758 (1)
- Coluber mentovarius* (C. Duméril, Bibron & A. Duméril, 1854)
- Dendrophidion* Fitzinger, 1843 (4)
- Dendrophidion nuchale* (W. Peters, 1863)
- Dendrophidion paucicarinatum* (Cope, 1894)
- Dendrophidion percarinatum* (Cope, 1893)
- Dendrophidion vinitor* H. M. Smith, 1941
- Drymarchon* Fitzinger, 1843 (1)
- Drymarchon melanurus* (C. Duméril, Bibron & A. Duméril, 1854)

- Drymobius* Fitzinger, 1843 (3)
Drymobius margaritiferus (Schlegel, 1837)
Drymobius melanotropis (Cope, 1875)
Drymobius rhombifer (Günther, 1860)
- Lampropeltis* Fitzinger, 1843 (1)
Lampropeltis triangulum (Lacépède, 1788)
- Leptodrymus* Amaral, 1927 (1)
Leptodrymus pulcherrimus (Cope, 1874)
- Leptophis* Bell, 1825 (5)
Leptophis ahaetulla (Linné, 1758)
Leptophis depressirostris (Cope, "1860", 1861)
Leptophis mexicanus C. Duméril, Bibron & A. Duméril, 1854
Leptophis nebulosus Oliver, 1942
Leptophis riveti Despax, 1910
- Mastigodryas* Amaral, "1934", 1935 (1)
Mastigodryas melanolomus (Cope, 1868)
- Oxybelis* Wagler, 1830 (3)
Oxybelis aeneus (Wagler, 1824)
Oxybelis brevirostris (Cope, "1860", 1861)
Oxybelis fulgidus (Daudin, 1803)
- Pseustes* Fitzinger, 1843 (1)
Pseustes poecilonotus (Günther, 1858)
- Rhinobothryum* Wagler, 1830 (1)
Rhinobothryum bovallii Andersson, 1916
- Scaphiodontophis* Taylor & H. M. Smith, 1943 (1)
Scaphiodontophis venustissimus (Günther, 1894)
- Scolecophis* Fitzinger, 1843 (1)
Scolecophis atrocinctus (Schlegel, 1837)
- Senticolis* Dowling & Fries, 1987 (1)
Senticolis triaspis (Cope, 1866)
- Spilotes* Wagler, 1830 (1)
Spilotes pullatus (Linné, 1758)
- Stenorrhina* C. Duméril, 1853 (2)
Stenorrhina degenhardtii (Berthold, 1845)
Stenorrhina freminivillii C. Duméril, Bibron & A. Duméril, 1854
- Tantilla* Baird & Girard, 1853 (7)
Tantilla alticola (Boulenger, 1903)
Tantilla armillata Cope, 1875
Tantilla reticulata Cope, 1860
Tantilla ruficeps (Cope, 1894)
Tantilla schistosa (Bocourt, 1883)
Tantilla supracincta (W. Peters, 1863)
Tantilla vermiformis (Hallowell, "1860", 1861)
- Trimorphodon* Cope, 1861 (1)
Trimorphodon quadruplex H. M. Smith, 1941

FAMILY DIPSADIDAE Bonaparte, 1838 [24](65)

[Zaher et al. \(2009\)](#) recognized the Dipsadidae as a family distinct from the Colubridae. The subfamilies Dipsadinae and Xenodontinae recognized by [Savage and Bolaños \(2009a\)](#) as subdivisions of the

Colubridae were transferred to the Dipsadidae by [Zaher et al. \(2009\)](#). The genera *Crisantophis*, *Enulius* and *Hydromorphus* included in Dipsadinae by [Savage and Bolaños \(2009a\)](#) where not assigned to subfamily by [Zaher et al. \(2009\)](#), we continue to include this genera in the Dipsadinae. [Zaher et al. \(2009\)](#) included *Nothopsis* in the Dipsadidae but without subfamily assignment. We had followed [Dowling and Pinou \(2003\)](#) in placing this genus in the Xenoderminae (see [Savage and Bolaños 2009a](#) for discussion) but accept [Zaher et al.'s \(2009\)](#) conclusion that this placement is probably in error.

Nothopsis Cope, 1871 (1)

Nothopsis rugosus Cope, 1871

SUBFAMILY DIPSADINAE Bonaparte, 1838 [16](54)

Amastridium Cope, "1860", 1861 (1)

Amastridium veliferum Cope, "1860", 1861

Coniophanes Hallowell, 1860 (3)

Coniophanes bipunctatus (Günther, 1858)

Coniophanes fissidens (Günther, 1858)

Coniophanes piceivittis Cope, "1869", 1870

Crisantophis Villa, 1971 (1)

Crisantophis nevermanni (Dunn, 1937)

Dipsas Laurenti, 1768 (3)

Dipsas articulata (Cope, 1868)

Dipsas bicolor (Günther, 1895)

Dipsas tenuissima Taylor, 1954

Enulius Cope, "1870", 1871 (2)

Enulius flavitorques (Cope, 1869)

Enulius sclateri (Boulenger, 1894)

Geophis Wagler, 1830 (7)

Geophis brachycephalus (Cope, 1871)

Geophis downsi Savage, 1981

Geophis godmani Boulenger, 1894

Geophis hoffmanni (W. Peters, 1859)

Geophis ruthveni Werner, 1925

Geophis talamancae Lips & Savage, 1994

Geophis zeledoni Taylor, 1954

Hydromorphus W. Peters, 1859 (1)

Hydromorphus concolor W. Peters, 1859

Imantodes C. Duméril, 1853 (3)

Imantodes cenchoa (Linné, 1758)

Imantodes gemnistratus Cope, 1861

Imantodes inornatus Boulenger, 1896

Leptodeira Fitzinger, 1843 (4)

Leptodeira annulata (Linné, 1758)

Leptodeira nigrofasciata Günther, 1868

Leptodeira rubricata (Cope, 1893)

Leptodeira septentrionalis (Kennicott, 1859)

Ninia Baird & Girard, 1853 (4)

Ninia celata McCranie & Wilson, 1995

Ninia maculata (W. Peters, 1861)

Ninia psephota (Cope, 1875)

Ninia sebae (C. Duméril, Bibron & A. Duméril, 1854)

- Rhadinaea* Cope, 1863 (5)
Rhadinaea calligaster (Cope, 1875)
Rhadinaea decorata (Günther, 1858)
Rhadinaea godmani (Günther, 1865)
Rhadinaea pulveriventris Boulenger, 1896
Rhadinaea serperaster Cope, 1871
- Sibon* Fitzinger, 1826 (7)
Sibon annulatus (Günther, 1872)
Sibon anthracops (Cope, 1868)
Sibon argus (Cope, 1875)
Sibon dimidiatus (Günther, 1872)
Sibon lamari Solórzano, 2002
Sibon longifrenis (Stejneger, 1909)
Sibon nebulatus (Linné, 1758)
- Tretanorhinus* C. Duméril, Bibron & A. Duméril, 1854 (1)
Tretanorhinus nigroluteus Cope, "1861", 1862
- Trimetopon* Cope, "1884", 1885 (5)
Trimetopon gracile (Günther, 1872)
Trimetopon plirolepis Cope, 1894
Trimetopon simile Dunn, 1930
Trimetopon slevini Dunn, 1940
Trimetopon viquezi Dunn, 1937
- Tropidodipsas* Günther, 1858 (1)
Tropidodipsas sartorii Cope, 1863
- Urotheca* Bibron in Cocteau & Bibron, 1843 (6)
Urotheca decipiens (Günther, 1893)
Urotheca euryzona (Cope, 1862)
Urotheca fulviceps (Cope, "1885", 1886)
Urotheca guentheri (Dunn, 1938)
Urotheca myersi Savage & Lahanas, 1989
Urotheca pachyura (Cope, 1875)
- SUBFAMILY XENODONTINAE Bonaparte, 1845 [7](10)
- Clelia* Fitzinger, 1826 (3)
Clelia clelia (Daudin, 1803)
Clelia equatoriana (Amaral, 1924)
Clelia scytalina (Cope, "1866", 1867)
- Conophis* W. Peters, 1860 (1)
Conophis lineatus (C. Duméril, Bibron & A. Duméril, 1854)
- Erythrolamprus* F. Boie, 1826 (2)
[Zaher et al. \(2009\)](#) included *Erythrolamprus* as a synonym of *Liophis* but recognized this relationship need to be studied in more detail. Here we continue using the generic name *Erythrolamprus*.
Erythrolamprus bizona Jan, 1863
Erythrolamprus mimus (Cope, "1868", 1869)
- Liophis* Wagler, 1830 (1)
Liophis epinephelus Cope, 1862
- Oxyrhopus* Wagler, 1830 (1)
Oxyrhopus petolaris (Linné, 1758)
- Siphlophis* Fitzinger, 1843 (1)
Siphlophis compressus (Daudin, 1803)

Xenodon H. Boie in Schlegel, 1826 (1)
Xenodon rabdocephalus (Wied, 1824)

FAMILY ELAPIDAE F. Boie, 1827 [2](6)

Micrurus Wagler in Spix, 1824 (5)
Micrurus alleni K. Schmidt, 1936
Micrurus clarki K. Schmidt, 1936
Micrurus mipartitus (C. Duméril, Bibron & A. Duméril, 1854)
Micrurus mosquitensis K. Schmidt, 1933
Micrurus nigrocinctus (Girard, "1854", 1855)
Pelamis Daudin, 1803 (1)
Pelamis platura (Linné, 1766)

FAMILY LEPTOTYPHLOPIDAE Stejneger, "1891", 1892 1

Epictia J. E. Gray, 1845

[Adalsteinsson et al. \(2009\)](#) recognized *Epictia* as different from *Leptotyphlops*.

The following species was included in *Leptotyphlops* by [Savage and Bolaños \(2009a\)](#). For discussion of the species assignment see [Savage \(2002\)](#).

Epictia ater (Taylor, "1939", 1940)

FAMILY LOXOCEMIDAE Cope, 1861 1

Loxocemus Cope, 1861 (1)
Loxocemus bicolor Cope, 1861

FAMILY NATRICIDAE Bonaparte, 1838 [1](2)

[Zaher et al. \(2009\)](#) recognized Natricidae as distinct from the Colubridae. It was listed as a subfamily of the later by [Savage and Bolaños \(2009a\)](#).

Thamnophis Fitzinger, 1843 (2)
Thamnophis marcianus (Baird & Girard, 1853)
Thamnophis proximus (Say, 1823)

FAMILY TYPHLOPIDAE Fitzinger, 1826 1

Typhlops Oppel, "1810", 1811 (1)
Typhlops costaricensis Jiménez & Savage, 1962

FAMILY UNGALIOPHIIDAE McDowell, 1987 1

Ungaliophis Müller, 1880 (1)
Ungaliophis panamensis K. Schmidt, 1933

FAMILY VIPERIDAE Oppel, "1810", 1811 [8](16)

Agkistrodon Palisot de Beauvois, 1799 (1)
Agkistrodon bilineatus (Günther, 1863)
Atropoides Werman, 1992 (2)
Atropoides mexicanus (C. Duméril, Bibron & A. Duméril, 1854)
Atropoides picadoi (Dunn, 1939)
Bothriechis W. Peters, 1859 (4)
Bothriechis lateralis W. Peters, 1862
Bothriechis nigroviridis W. Peters, 1859
Bothriechis schlegelii (Berthold, 1845)

Bothriechis supraciliaris (Taylor, 1954)
Bothrops Wagler, 1824 (1)
Bothrops asper (Garman, "1883", 1884)
Cerrophidion Campbell & Lamar, 1992 (1)
Cerrophidion godmani (Günther, 1863)
Crotalus Linné, 1758 (1)
Crotalus simus Latrielle, 1801
Lachesis Daudin, 1803 (2)
Lachesis melanocephala Solórzano & Cerdas, 1986
Lachesis stenophrys Cope, 1875
Porthidium Cope, 1871 (4)
Porthidium nasutum (Bocourt, 1868)
Porthidium ophryomegas (Bocourt, 1868)
Porthidium porrasi Lamar & Sasa, 2003
Porthidium volcanicum Solórzano, 1994

ORDER TESTUDINATA Opper, 1811 6[9](15)

FAMILY CHELONIIDAE J. E. Gray, 1825 [4](5)

Caretta Rafinesque, 1814 (1)
Caretta caretta (Linné, 1758)
Chelonia Brongniart, 1800 (2)
Chelonia agassizii Bocourt, 1868
Chelonia mydas (Linné, 1758)
Eretmochelys Fitzinger, 1843 (1)
Eretmochelys imbricata (Linné, 1766)
Lepidochelys Fitzinger, 1843 (1)
Lepidochelys olivacea (Eschscholtz, 1829)

FAMILY CHELYDRIDAE Agassiz, 1857 (1839) 1

Chelydra Schweigger, 1812 (1)
Chelydra acutirostris W. Peters, 1862

FAMILY DERMOCHELYIDAE Baur, 1888 (1825) 1

Dermochelys Blainville, 1816 (1)
Dermochelys coriacea (Vandelli, 1761)

FAMILY EMYDIDAE Schmid, 1819 [1](2)

Trachemys Agassiz, 1857 (2)
Trachemys emolli (Legler, 1990)
Trachemys venusta (J. E. Gray, 1856)

FAMILY GEOEMYDIDAE Theobald, 1868 [1](3)

Rhinoclemmys Fitzinger, 1835 (3)
Rhinoclemmys annulata (J. E. Gray., 1860)
Rhinoclemmys funerea (Cope, 1875)
Rhinoclemmys pulcherrima (J. E. Gray, 1855)

FAMILY KINOSTERNIDAE J. E. Gray, 1869 [1](3)

Kinosternon Spix, 1824 (3)
Kinosternon angustipons Legler, 1965
Kinosternon leucostomum (C. Duméril & Bibron, 1851)
Kinosternon scorpioides (Linné, 1766)

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