Appendix 1.

Checklist of recognized amphibian and reptile species in Costa Rica. In square brackets, we indicate how many species belong to the families (F) and genera (G) or high-level taxonomic categories. The asterisk (\*) indicates those species that have been introduced, while (‡) indicates species that are possibly extinct (not observed in the last 25 years).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CLASS AMPHIBIA GRAY, 1825 [17F/46G + 2\*G = 221 (218 + 3\*)]** | | | | | | | |
|  | **Order Gymnophiona Müller, 1832 [2F/4G = 9]** | | | | | | |
|  |  |  | **Family Caeciliidae Rafinesque, 1814 [2G = 2]** | | | | |
|  |  |  |  |  | *Caecilia* Linnaeus, 1758 [1] | | |
|  |  |  |  |  |  |  | *Caecilia volcani* Taylor, 1969 |
|  |  |  |  |  | *Oscaecilia* Taylor, 1968 [1] | | |
|  |  |  |  |  |  |  | *Oscaecilia osae* Lahanas & Savage, 1992 |
|  |  |  | **Family Dermophiidae Taylor, 1969 [2G = 7]** | | | | |
|  |  |  |  |  | *Dermophis* Peters, 1880 [6] | | |
|  |  |  |  |  |  |  | *Dermophis costaricense* Taylor, 1955 |
|  |  |  |  |  |  |  | *Dermophis glandulosus* Taylor, 1955 |
|  |  |  |  |  |  |  | *Dermophis gracilior* Günther, 1902 |
|  |  |  |  |  |  |  | *Dermophis mexicanus* (Duméril & Bibron, 1841) |
|  |  |  |  |  |  |  | *Dermophis occidentalis* Taylor, 1955 |
|  |  |  |  |  |  |  | *Dermophis parviceps* (Dunn, 1924) |
|  |  |  |  |  | *Gymnopis* Peters, 1874 [1] | | |
|  |  |  |  |  |  |  | *Gymnopis multiplicata* Peters, 1874 |
|  | **Order Caudata Fisher Von Waldheim, 1813 [1F/3G = 56]** | | | | | | |
|  |  |  | **Family Plethodontidae Gray, 1850 [3G = 56]** | | | | |
|  |  |  |  | **Subfamily Hemidactyliinae Hallowell, 1856 [3G = 56]** | | | |
|  |  |  |  |  | *Bolitoglossa* Duméril, Bibron & Duméril, 1854 [29] | | |
|  |  |  |  |  |  | Subgenus *Bolitoglossa* (*Bolitoglossa*)Duméril, Bibron & Duméril, 1854 [2] | |
|  |  |  |  |  |  |  | *Bolitoglossa lignicolor* (Peters, 1873) |
|  |  |  |  |  |  |  | *Bolitoglossa striatula* (Noble, 1918) |
|  |  |  |  |  |  | Subgenus *Bolitoglossa* (*Eladinea*)Miranda-Ribeiro, 1937 [26] | |
|  |  |  |  |  |  |  | *Bolitoglossa* *aurae* Kubicki & Arias, 2016 |
|  |  |  |  |  |  |  | *Bolitoglossa aureogularis* Boza-Oviedo, Rovito, Chaves, García-Rodríguez, Artavia, Bolaños & Wake, 2012 |
|  |  |  |  |  |  |  | *Bolitoglossa bolanosi* Arias, Chaves & Parra-Olea, 2023 |
|  |  |  |  |  |  |  | *Bolitoglossa bramei* Wake, Savage & Hanken, 2007 |
|  |  |  |  |  |  |  | *Bolitoglossa cerroensis* (Taylor, 1952) |
|  |  |  |  |  |  |  | *Bolitoglossa chiquitica* Arias, Chaves, Kubicki & Parra-Olea, 2024 |
|  |  |  |  |  |  |  | *Bolitoglossa colonnea* (Dunn, 1924) |
|  |  |  |  |  |  |  | *Bolitoglossa compacta* Wake, Brame & Duellman, 1973 |
|  |  |  |  |  |  |  | *Bolitoglossa diminuta* Robinson, 1976 |
|  |  |  |  |  |  |  | *Bolitoglossa epimela* Wake & Brame, 1963 |
|  |  |  |  |  |  |  | *Bolitoglossa gomezi* Wake, Bolaños & Hanken, 2007 |
|  |  |  |  |  |  |  | *Bolitoglossa gracilis* Bolaños, Robinson & Wake, 2007 |
|  |  |  |  |  |  |  | *Bolitoglossa kamuk* Boza-Oviedo, Rovito, Chaves, García-Rodríguez, Artavia, Bolaños & Wake, 2012 |
|  |  |  |  |  |  |  | *Bolitoglossa marmorea* (Tanner & Brame, 1961) |
|  |  |  |  |  |  |  | *Bolitoglossa minutula* Wake, Brame & Duellman, 1973 |
|  |  |  |  |  |  |  | *Bolitoglossa nigrescens* (Taylor, 1949) |
|  |  |  |  |  |  |  | *Bolitoglossa* *pesrubra* (Taylor, 1952) |
|  |  |  |  |  |  |  | *Bolitoglossa pygmaea* Bolaños & Wake, 2009 |
|  |  |  |  |  |  |  | *Bolitoglossa robinsoni* Bolaños & Wake, 2009 |
|  |  |  |  |  |  |  | *Bolitoglossa robusta* (Cope, 1894) |
|  |  |  |  |  |  |  | *Bolitoglossa schizodactyla* Wake & Brame, 1966 |
|  |  |  |  |  |  |  | *Bolitoglossa silentium* Arias, Chaves, Kubicki & Parra-Olea, 2024 |
|  |  |  |  |  |  |  | *Bolitoglossa sooyorum* Vial, 1963 |
|  |  |  |  |  |  |  | *Bolitoglossa splendida* Boza-Oviedo, Rovito, Chaves, García-Rodríguez, Artavia, Bolaños & Wake, 2012 |
|  |  |  |  |  |  |  | *Bolitoglossa* *subpalmata* (Boulenger, 1896) |
|  |  |  |  |  |  |  | *Bolitoglossa tica* García-París, Parra-Olea & Wake, 2008 |
|  |  |  |  |  |  | Subgenus *Bolitoglossa* (*Pachymandra*)Parra-Olea, García-París & Wake [1] | |
|  |  |  |  |  |  |  | *Bolitoglossa alvaradoi* Taylor, 1954 |
|  |  |  |  |  | *Nototriton* Wake & Elias, 1983 [11] | | |
|  |  |  |  |  |  | Subgenus *Nototriton* (*Nototriton*) Wake & Elias, 1983 [8] | |
|  |  |  |  |  |  |  | *Nototriton abscondens* (Taylor, 1948) |
|  |  |  |  |  |  |  | *Nototriton costaricense* Arias & Kubicki, 2018 |
|  |  |  |  |  |  |  | *Nototriton gamezi* García-París & Wake, 2000 |
|  |  |  |  |  |  |  | *Nototriton guanacaste* Good & Wake, 1993 |
|  |  |  |  |  |  |  | *Nototriton kenorum* Kubicki, Reyes & Arias, 2022 |
|  |  |  |  |  |  |  | *Nototriton lateomuscus* Kubicki, Reyes & Arias, 2022 |
|  |  |  |  |  |  |  | *Nototriton maximo* Kubicki, Reyes & Arias, 2022 |
|  |  |  |  |  |  |  | *Nototriton picadoi* (Stejneger, 1911) |
|  |  |  |  |  |  | Subgenus *Nototriton* (*Taylorotriton*) Kubicki, Reyes & Arias, 2022 [3] | |
|  |  |  |  |  |  |  | *Nototriton richardi* (Taylor, 1949) |
|  |  |  |  |  |  |  | *Nototriton tapanti* Good & Wake, 1993 |
|  |  |  |  |  |  |  | *Nototriton vereh* Kubicki, Reyes & Arias, 2022 |
|  |  |  |  |  | *Oedipina* Keferstein, 1868 [16] | | |
|  |  |  |  |  |  | Subgenus *Oedipina* (*Oedipina*) Keferstein, 1868 [11] | |
|  |  |  |  |  |  |  | *Oedipina alfaroi* Brame, 1968 |
|  |  |  |  |  |  |  | *Oedipina altura* Dunn, 1921 |
|  |  |  |  |  |  |  | *Oedipina collaris* (Stejneger, 1907) |
|  |  |  |  |  |  |  | *Oedipina cyclocauda* Taylor, 1952 |
|  |  |  |  |  |  |  | *Oedipina gracilis* Taylor, 1952 |
|  |  |  |  |  |  |  | *Oedipina grandis* Brame & Duellman, 1970 |
|  |  |  |  |  |  |  | *Oedipina pacificenses* Taylor, 1952 |
|  |  |  |  |  |  |  | *Oedipina paucidentata* Brame, 1968 |
|  |  |  |  |  |  |  | *Oedipina poelzi* Brame, 1963 |
|  |  |  |  |  |  |  | *Oedipina pseudouniformis* Brame, 1968 |
|  |  |  |  |  |  |  | *Oedipina uniformis* Keferstein, 1868 |
|  |  |  |  |  |  | Subgenus *Oedipina* (*Oedipinola*) Hilton, 1946 [5] | |
|  |  |  |  |  |  |  | *Oedipina alleni* Taylor, 1954 |
|  |  |  |  |  |  |  | *Oedipina berlini* Kubicki, 2016 |
|  |  |  |  |  |  |  | *Oedipina carablanca* Brame, 1968 |
|  |  |  |  |  |  |  | *Oedipina* *nimaso* Boza-Oviedo, Rovito, Chaves, García-Rodríguez, Artavia, Bolaños & Wake, 2012 |
|  |  |  |  |  |  |  | *Oedipina savagei* García-París & Wake, 2000 |
|  | **Order Anura Fisher Von Waldheim, 1813 [14F/39G + 2\*G = 156 (153 + 3\*)]** | | | | | | |
|  |  | **Superfamily Brachycephaloidea Günther, 1858 [3F/4G + 1\*G = 50 (48 + 2\*)]** | | | | | |
|  |  |  | **Family Craugastoridae Hedges, Duellman & Heinicke, 2008 [1G = 31]** | | | | |
|  |  |  |  |  | *Craugastor* Cope, 1862 [31] | | |
|  |  |  |  |  |  |  | *Craugastor aenigmaticus* Arias, Chaves & Parra-Olea, 2018 |
|  |  |  |  |  |  |  | *Craugastor andi* (Savage, 1975) |
|  |  |  |  |  |  |  | *Craugastor angelicus* (Savage, 1975) |
|  |  |  |  |  |  |  | *Craugastor bransfordii* (Cope, 1886) |
|  |  |  |  |  |  |  | ‡*Craugastor catalinae* (Campbell & Savage, 2000) |
|  |  |  |  |  |  |  | *Craugastor crassidigitus* (Taylor, 1952) |
|  |  |  |  |  |  |  | ‡*Craugastor cuaquero* (Savage, 1980) |
|  |  |  |  |  |  |  | *Craugastor escoces* (Savage, 1975) |
|  |  |  |  |  |  |  | *Craugastor fitzingeri* (Schmidt, 1857) |
|  |  |  |  |  |  |  | *Craugastor fleischmanni* (Boettger, 1892) |
|  |  |  |  |  |  |  | *Craugastor gabbi* Arias, Chaves, Crawford & Parra-Olea, 2016 |
|  |  |  |  |  |  |  | *Craugastor gollmeri* (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, 1926) |
|  |  |  |  |  |  |  | *Craugastor persimilis* (Barbour, 1926) |
|  |  |  |  |  |  |  | ‡*Craugastor phasma* (Lips & Savage, 1996) |
|  |  |  |  |  |  |  | *Craugastor podiciferus* (Cope, 1875) |
|  |  |  |  |  |  |  | *Craugastor ranoides* (Cope, 1886) |
|  |  |  |  |  |  |  | *Craugastor rayo* (Savage & DeWeese, 1979) |
|  |  |  |  |  |  |  | *Craugastor rearki* (Taylor, 1952) |
|  |  |  |  |  |  |  | ‡*Craugastor rhyacobatrachus* (Campbell & Savage, 2000) |
|  |  |  |  |  |  |  | *Craugastor rugosus* (Peters, 1873) |
|  |  |  |  |  |  |  | *Craugastor stejnegerianus* (Cope, 1893) |
|  |  |  |  |  |  |  | *Craugastor talamancae* (Dunn, 1931) |
|  |  |  |  |  |  |  | *Craugastor taurus* (Taylor, 1958) |
|  |  |  |  |  |  |  | *Craugastor underwoodi* (Boulenger, 1896) |
|  |  |  |  |  |  |  | *Craugastor zunigai* Arias, Hertz & Parra-Olea, 2019 |
|  |  |  | **Family Eleutherodactylidae Lutz, 1954 [1G + 1\*G = 8 (6+2\*)]** | | | | |
|  |  |  |  |  | *Diasporus* Hedges, Duellman & Heinicke, 2008 [6] | | |
|  |  |  |  |  |  |  | *Diasporus amirae* Arias, Chaves, Salazar, Salazar-Zúñiga & García-Rodríguez, 2019 |
|  |  |  |  |  |  |  | *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* Duméril & Bibron, 1841 [2\*] | | |
|  |  |  |  |  |  |  | *\*Eleutherodactylus coqui* Thomas, 1966 |
|  |  |  |  |  |  |  | *\*Eleutherodactylus planirostris* (Cope, 1862) |
|  |  |  | **Family Strabomantidae Hedges, Duellman & Heinicke, 2008 [2G = 11]** | | | | |
|  |  |  |  | **Subfamily Pristimantinae Ohler & Dubois, 2012 [1G = 10]** | | | |
|  |  |  |  |  | *Pristimantis* Jiménez de la Espada, 1870 [9] | | |
|  |  |  |  |  |  |  | *Pristimantis altae* (Dunn, 1942) |
|  |  |  |  |  |  |  | *Pristimantis caryophyllaceus* (Barbour, 1928) |
|  |  |  |  |  |  |  | *Pristimantis cerasinus* (Cope, 1875) |
|  |  |  |  |  |  |  | *Pristimantis cruentus* (Peters, 1873) |
|  |  |  |  |  |  |  | *Pristimantis gaigei* (Dunn, 1942) |
|  |  |  |  |  |  |  | *Pristimantis moro* (Savage, 1965) |
|  |  |  |  |  |  |  | *Pristimantis museosus* (Ibañez, Jaramillo & Arosemena, 1994) |
|  |  |  |  |  |  |  | *Pristimantis pardalis* (Barbour, 1928) |
|  |  |  |  |  |  |  | *Pristimantis ridens* (Cope, 1866) |
|  |  |  |  |  |  |  | *Pristimantis taeniatus* (Boulenger, 1912) |
|  |  |  |  | **Subfamily Strabomantinae Hedges, Duellman & Heinicke, 2008 [1G = 1]** | | | |
|  |  |  |  |  | *Strabomantis* Peters, 1863 [1] | | |
|  |  |  |  |  |  |  | *Strabomantis bufoniformis* (Boulenger, 1896) |
|  |  |  | **Family Bufonidae Gray, 1825 [4G = 18]** | | | | |
|  |  |  |  |  | *Atelopus* Duméril & Bibron, 1841 [4] | | |
|  |  |  |  |  |  |  | ‡*Atelopus chiriquiensis* Shreve, 1936 |
|  |  |  |  |  |  |  | ‡*Atelopus chirripoensis* Savage & Bolaños, 2009 |
|  |  |  |  |  |  |  | ‡*Atelopus senex* Taylor, 1952 |
|  |  |  |  |  |  |  | *Atelopus varius* (Lichtenstein & Martens, 1856) |
|  |  |  |  |  | *Incilius* Cope, 1863 [12] | | |
|  |  |  |  |  |  |  | *Incilius aucoinae* (O’Neill & Mendelson, 2004) |
|  |  |  |  |  |  |  | *Incilius chompipe* (Vaughan & Mendelson, 2007) |
|  |  |  |  |  |  |  | *Incilius coccifer* (Cope, 1866) |
|  |  |  |  |  |  |  | *Incilius coniferus* (Cope, 1862) |
|  |  |  |  |  |  |  | *Incilius epioticus* (Cope, 1875) |
|  |  |  |  |  |  |  | ‡*Incilius fastidiosus* (Cope, 1875) |
|  |  |  |  |  |  |  | *Incilius guanacaste* (Vaughan & Mendelson, 2007) |
|  |  |  |  |  |  |  | *Incilius holdridgei* (Taylor, 1952) |
|  |  |  |  |  |  |  | *Incilius luetkenii* (Boulenger, 1891) |
|  |  |  |  |  |  |  | *Incilius melanochlorus* (Cope, 1877) |
|  |  |  |  |  |  |  | ‡*Incilius periglenes* (Savage, 1967) |
|  |  |  |  |  |  |  | *Incilius valliceps* (Wiegmann, 1833) |
|  |  |  |  |  | *Rhaebo* Cope, 1862 [1] | | |
|  |  |  |  |  |  |  | *Rhaebo haematiticus* (Cope, 1862) |
|  |  |  |  |  | *Rhinella* Fitzinger, 1826 [1] | | |
|  |  |  |  |  |  |  | *Rhinella horribilis* (Wiegmann, 1833) |
|  |  |  | **Family Centrolenidae Taylor, 1951 [5G = 15]** | | | | |
|  |  |  |  | **Subfamily Centroleninae Taylor, 1951 [4G = 7]** | | | |
|  |  |  |  |  | *Cochranella* Taylor, 1951 [2] | | |
|  |  |  |  |  |  |  | *Cochranella euknemos* (Savage & Starrett, 1967) |
|  |  |  |  |  |  |  | *Cochranella granulosa* (Taylor, 1949) |
|  |  |  |  |  | *Espadarana* Guayasamin, Castroviejo-Fisher, Trueb, Ayarzagüena, Rada & Vilà, 2009 [1] | | |
|  |  |  |  |  |  |  | *Espadarana prosoblepon* (Boettger, 1892) |
|  |  |  |  |  | *Sachatamia* Guayasamin, Castroviejo-Fisher, Trueb, Ayarzagüena, Rada & Vilà, 2009 [2] | | |
|  |  |  |  |  |  |  | *Sachatamia albomaculata* (Taylor, 1949) |
|  |  |  |  |  |  |  | *Sachatamia ilex* (Savage, 1967) |
|  |  |  |  |  | *Teratohyla* Taylor, 1951 [2] | | |
|  |  |  |  |  |  |  | *Teratohyla pulverata* (Peters, 1873) |
|  |  |  |  |  |  |  | *Teratohyla spinosa* (Taylor, 1949) |
|  |  |  |  | **Subfamily Hyalinobatrachinae Guayasamin, Castroviejo-Fisher, Trueb, Ayarzagüena, Rada & Vilà, 2009 [1G = 8]** | | | |
|  |  |  |  |  | *Hyalinobatrachium* Ruiz-Carranza & Lynch, 1991 [8] | | |
|  |  |  |  |  |  |  | *Hyalinobatrachium chirripoi* (Taylor, 1958) |
|  |  |  |  |  |  |  | *Hyalinobatrachium colymbiphyllum* (Taylor, 1949) |
|  |  |  |  |  |  |  | *Hyalinobatrachium dianae* Kubicki, Salazar & Puschendorf, 2015 |
|  |  |  |  |  |  |  | *Hyalinobatrachium fleischmanni* (Boettger, 1893) |
|  |  |  |  |  |  |  | *Hyalinobatrachium talamancae* (Taylor, 1952) |
|  |  |  |  |  |  |  | *Hyalinobatrachium tatayoi* Castroviejo-Fisher, Ayarzagüena & Vilà, 2007 |
|  |  |  |  |  |  |  | *Hyalinobatrachium valerioi* (Dunn, 1931) |
|  |  |  |  |  |  |  | *Hyalinobatrachium vireovittatum* (Starret & Savage, 1973) |
|  |  | **Superfamily Dendrobatoidea Cope, 1865 [2F/5G = 8]** | | | | | |
|  |  |  | **Family Aromobatidae Grant, Frost, Caldwell, Gagliardo, Haddad, Kok, Means, Noonan, Schargel & Wheeler, 2006 [1G =1]** | | | | |
|  |  |  |  |  | *Allobates* Zimmermann & Zimmermann, 1988 [1] | | |
|  |  |  |  |  |  |  | *Allobates talamancae* (Cope, 1875) |
|  |  |  | **Family Dendrobatidae Cope, 1865 [4G = 7]** | | | | |
|  |  |  |  | **Subfamily Colostethinae Cope, 1867 [1G = 2]** | | | |
|  |  |  |  |  | *Silverstoneia* Grant, Frost, Caldwell, Gagliardo, Haddad, Kok, Means, Noonan, Schargel & Wheeler, 2006 [2] | | |
|  |  |  |  |  |  |  | *Silverstoneia flotator* (Dunn, 1931) |
|  |  |  |  |  |  |  | *Silverstoneia nubicola* (Dunn, 1924) |
|  |  |  |  | **Subfamily Dendrobatinae Cope, 1865 [3G = 5]** | | | |
|  |  |  |  |  | *Dendrobates* Wagler, 1830 [1] | | |
|  |  |  |  |  |  |  | *Dendrobates auratus* (Girard, 1855) |
|  |  |  |  |  | *Oophaga* Bauer, 1994 [2] | | |
|  |  |  |  |  |  |  | *Oophaga granulifera* (Taylor, 1958) |
|  |  |  |  |  |  |  | *Oophaga pumilio* (Schmidt, 1857) |
|  |  |  |  |  | *Phyllobates* Bibron, 1840 [2] | | |
|  |  |  |  |  |  |  | *Phyllobates lugubris* (Schmidt, 1857) |
|  |  |  |  |  |  |  | *Phyllobates vittatus* (Cope, 1893) |
|  |  |  | **Family Hemiphractidae Peters, 1862 [1G = 1]** | | | | |
|  |  |  |  |  | *Gastrotheca* Fitzinger, 1843 [1] | | |
|  |  |  |  |  |  |  | *Gastrotheca cornuta* (Boulenger, 1898) |
|  |  | **Superfamily Hyloidea Rafinesque, 1815 [2F/42G + 1\*G = 48 (47 +1\*)]** | | | | | |
|  |  |  | **Family Hylidae Rafinesque, 1815 [11G + 1\*G = 41 (40 + 1\*)]** | | | | |
|  |  |  |  | **Subfamily Cophomantinae Hoffmann, 1878 [2G = 4]** | | | |
|  |  |  |  |  | *Boana* Gray, 1825 [2] | | |
|  |  |  |  |  |  |  | *Boana rosenbergi* (Boulenger, 1898) |
|  |  |  |  |  |  |  | *Boana rufitela* (Fouquette, 1961) |
|  |  |  |  |  | *Hyloscirtus* Peters, 1862 [2] | | |
|  |  |  |  |  |  |  | *Hyloscirtus colymba* (Dunn, 1931) |
|  |  |  |  |  |  |  | *Hyloscirtus palmeri* (Boulenger, 1908) |
|  |  |  |  | **Subfamily Hylinae Rafinesque, 1815 [9G +1\*G = 37 (36 + 1\*]** | | | |
|  |  |  |  |  | *Dendropsophus* Fitzinger, 1843 [3] | | |
|  |  |  |  |  |  |  | *Dendropsophus ebraccatus* (Cope, 1874) |
|  |  |  |  |  |  |  | *Dendropsophus microcephalus* (Cope, 1886) |
|  |  |  |  |  |  |  | *Dendropsophus phlebodes* (Stejneger, 1906) |
|  |  |  |  |  | *Duellmanohyla* Campbell & Smith, 1992 [4] | | |
|  |  |  |  |  |  |  | *Duellmanohyla legleri* (Taylor, 1958) |
|  |  |  |  |  |  |  | *Duellmanohyla lythrodes* (Savage, 1968) |
|  |  |  |  |  |  |  | *Duellmanohyla rufioculis* (Taylor, 1952) |
|  |  |  |  |  |  |  | *Duellmanohyla uranochroa* (Cope, 1875) |
|  |  |  |  |  | *Ecnomiohyla* Faivovich, Haddad, García, Frost, Campbell & Wheeler, 2005 [4] | | |
|  |  |  |  |  |  |  | *Ecnomiohyla bailarina* Batista, Hertz, Mebert, Köhler, Lotzkat, Ponce & Vesely, 2014 |
|  |  |  |  |  |  |  | *Ecnomiohyla fimbrimembra* (Taylor, 1948) |
|  |  |  |  |  |  |  | *Ecnomiohyla miliaria* (Cope, 1886) |
|  |  |  |  |  |  |  | *Ecnomiohyla sukia* Savage & Kubicki, 2010 |
|  |  |  |  |  | *Isthmohyla* Faivovich, Haddad, García, 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* (Starret, 1966) |
|  |  |  |  |  |  |  | *Isthmohyla xanthosticta* (Duellman, 1968) |
|  |  |  |  |  |  |  | *Isthmohyla zeteki* (Gaige, 1929) |
|  |  |  |  |  | *\*Osteopilus* Fitzinger, 1843 [1] | | |
|  |  |  |  |  |  |  | *\*Osteopilus septentrionalis* (Duméril & Bibron, 1841) |
|  |  |  |  |  | *Scinax* Wagler, 1830 [4] | | |
|  |  |  |  |  |  |  | *Scinax altae* (Dunn, 1933) |
|  |  |  |  |  |  |  | *Scinax boulengeri* (Cope, 1887) |
|  |  |  |  |  |  |  | *Scinax elaeochroa* (Cope, 1875) |
|  |  |  |  |  |  |  | *Scinax staufferi* (Cope, 1865) |
|  |  |  |  |  | *Smilisca* Cope, 1865 [6] | | |
|  |  |  |  |  |  |  | *Smilisca baudinii* (Duméril & Bibron, 1841) |
|  |  |  |  |  |  |  | *Smilisca manisorum* (Taylor, 1954) |
|  |  |  |  |  |  |  | *Smilisca phaeota* (Cope, 1862) |
|  |  |  |  |  |  |  | *Smilisca puma* (Cope, 1885) |
|  |  |  |  |  |  |  | *Smilisca sila* Duellman & Trueb, 1966 |
|  |  |  |  |  |  |  | *Smilisca sordida* (Peters, 1863) |
|  |  |  |  |  | *Tlalocohyla* Faivovich, Haddad, García, Frost, Campbell & Wheeler, 2005 [2] | | |
|  |  |  |  |  |  |  | *Tlalocohyla celeste* Varela-Soto, Abarca, Brenes-Mora, Aspinall, Leenders & Shepack, 2022 |
|  |  |  |  |  |  |  | *Tlalocohyla loquax* (Gaige & Stuart, 1934) |
|  |  |  |  |  | *Trachycephalus* Tschudi, 1838 [1] | | |
|  |  |  |  |  |  |  | *Trachycephalus tiphonius* (Linnaeus, 1758) |
|  |  |  |  |  | *Triprion* Cope, 1866 [1] | | |
|  |  |  |  |  |  |  | *Triprion spinosus* (Steindachner, 1864) |
|  |  |  | **Family Phyllomedusidae Günther, 1858 [2G = 7]** | | | | |
|  |  |  |  |  | *Agalychnis* Cope, 1864 [5] | | |
|  |  |  |  |  |  |  | *Agalychnis annae* (Duellman, 1963) |
|  |  |  |  |  |  |  | *Agalychnis callidryas* (Cope, 1862) |
|  |  |  |  |  |  |  | *Agalychnis lemur* (Boulenger, 1882) |
|  |  |  |  |  |  |  | *Agalychnis saltator* Taylor, 1955 |
|  |  |  |  |  |  |  | *Agalychnis spurrelli* Boulenger, 1913 |
|  |  |  |  |  | *Cruziohyla* Faivovich, Haddad, García, Frost, Campbell & Wheeler, 2005 [2] | | |
|  |  |  |  |  |  |  | *Cruziohyla calcarifer* (Boulenger, 1902) |
|  |  |  |  |  |  |  | *Cruziohyla sylviae* Gray, 2018 |
|  |  |  | **Family Leptodactylidae Werner, 1896 [2G = 6]** | | | | |
|  |  |  |  | **Subfamily Leiuperinae Bonaparte, 1850 [1G = 1]** | | | |
|  |  |  |  |  | *Engystomops* Jiménez de la Espada, 1872 [1] | | |
|  |  |  |  |  |  |  | *Engystomops pustulosus* (Cope, 1864) |
|  |  |  |  | **Subfamily Leptodactylinae Werner, 1896 [1G = 5]** | | | |
|  |  |  |  |  | *Leptodactylus* Fitzinger, 1826 [5] | | |
|  |  |  |  |  |  |  | *Leptodactylus fragilis* (Brocchi, 1877) |
|  |  |  |  |  |  |  | *Leptodactylus insularum* Barbour, 1906 |
|  |  |  |  |  |  |  | *Leptodactylus melanonotus* (Hallowell, 1861) |
|  |  |  |  |  |  |  | *Leptodactylus poecilochilus* (Cope, 1862) |
|  |  |  |  |  |  |  | *Leptodactylus savagei* Heyer, 2005 |
|  |  |  | **Family Microhylidae Günther, 1858 [3G = 4]** | | | | |
|  |  |  |  |  | *Ctenophryne* Mocquard, 1904 [1] | | |
|  |  |  |  |  |  |  | *Ctenophryne aterrima* (Günther, 1901) |
|  |  |  |  |  | *Elachistocleis* Parker, 1927 [1] | | |
|  |  |  |  |  |  |  | *Elachistocleis pearsei* (Ruthven, 1914) |
|  |  |  |  |  | *Hypopachus* Keferstein, 1867 [2] | | |
|  |  |  |  |  |  |  | *Hypopachus pictiventris* (Cope, 1886) |
|  |  |  |  |  |  |  | *Hypopachus variolosus* (Cope, 1866) |
|  |  |  | **Family Ranidae Batsch, 1796 [1G = 5]** | | | | |
|  |  |  |  |  | *Lithobates* Fitzinger, 1843 [5] | | |
|  |  |  |  |  |  |  | *Lithobates forreri* (Boulenger, 1883) |
|  |  |  |  |  |  |  | *Lithobates taylori* (Smith, 1959) |
|  |  |  |  |  |  |  | *Lithobates vaillanti* (Brocchi, 1877) |
|  |  |  |  |  |  |  | *Lithobates vibicarius* (Cope, 1894) |
|  |  |  |  |  |  |  | *Lithobates warszewistschii* (Schmidt, 1857) |
|  |  |  | **Family Rhinophrynidae Günther, 1858 [1G = 1]** | | | | |
|  |  |  |  |  | *Rhinophrynus* Duméril & Bibron, 1841 [1] | | |
|  |  |  |  |  |  |  | *Rhinophrynus dorsalis* Duméril & Bibron, 1841 |
|  |  |  |  |  |  |  |  |
| **CLASS REPTILIA LAURENTI, 1768 [36F/110G +3\*G = 257 (250+7\*)]** | | | | | | | |
|  | **Order Crocodilia Owen, 1842 [2F/2G = 2]** | | | | | | |
|  |  |  | **Family Alligatoridae Cuvier, 1807 [1G = 1]** | | | | |
|  |  |  |  |  | *Caiman* Spix, 1825 [1] | | |
|  |  |  |  |  |  |  | *Caiman crocodilus* (Linnaeus, 1758) |
|  |  |  | **Family Crocodylidae Gmelin, 1789 [1G = 1]** | | | | |
|  |  |  |  |  | *Crocodylus* Laurenti, 1768 [1] | | |
|  |  |  |  |  |  |  | *Crocodylus acutus* (Cuvier, 1807) |
|  | **Order Testudines Batsch, 1788 [6F/9G = 14]** | | | | | | |
|  |  | **Superfamily Chelonioidea Oppel, 1811 [2F/5G = 5]** | | | | | |
|  |  |  | **Family Cheloniidae Oppel, 1811 [4G = 4]** | | | | |
|  |  |  |  | **Subfamily Carettinae Gray, 1825 [3G = 3]** | | | |
|  |  |  |  |  | *Caretta* Rafinesque, 1814 [1] | | |
|  |  |  |  |  |  |  | *Caretta caretta* (Linnaeus, 1758) |
|  |  |  |  |  | *Eretmochelys* Fitzinger, 1843 [1] | | |
|  |  |  |  |  |  |  | *Eretmochelys imbricata* (Linnaeus, 1766) |
|  |  |  |  |  | *Lepidochelys* Fitzinger 1843 [1] | | |
|  |  |  |  |  |  |  | *Lepidochelys olivacea* (Eschscholtz, 1829) |
|  |  |  |  | **Subfamily Cheloniinae Opel, 1811 [1G = 1]** | | | |
|  |  |  |  |  | *Chelonia* Brongniart, 1800 [1] | | |
|  |  |  |  |  |  |  | *Chelonia mydas* (Linnaeus, 1758) |
|  |  |  | **Family Dermochelyidae Fitzinger, 1843 [1G = 1]** | | | | |
|  |  |  |  |  | *Dermochelys* Blainville, 1816[1] | | |
|  |  |  |  |  |  |  | *Dermochelys coriacea* (Vandelli, 1761) |
|  |  | **Superfamily Chelydroidea Gray, 1831 [1F/1G = 1]** | | | | | |
|  |  |  | **Family Chelydridae Gray, 1831 [1G = 1]** | | | | |
|  |  |  |  |  | *Chelydra* Schweigger, 1812 [1] | | |
|  |  |  |  |  |  |  | *Chelydra acutirostris* Peters, 1862 |
|  |  | **Superfamily Kinosternoidea Joyce, Parham & Gauthier, 2004 [1F/1G = 3]** | | | | | |
|  |  |  | **Family Kinosternidae Agassiz, 1857 [1G = 3]** | | | | |
|  |  |  |  |  | *Kinosternon* Spix, 1824 [3] | | |
|  |  |  |  |  |  |  | *Kinosternon angustipons* Legler, 1965 |
|  |  |  |  |  |  |  | *Kinosternon leucostomum* Dumeril and Bribon, 1851 |
|  |  |  |  |  |  |  | *Kinosternon scorpioides* (Linnaeus, 1766) |
|  |  | **Superfamily Testudinoidea Fitzinger, 1826 [2F/5G = 5]** | | | | | |
|  |  |  | **Family Emydidae Rafinesque, 1815 [1G = 2]** | | | | |
|  |  |  |  |  | *Trachemys* Agassiz, 1857 [2] | | |
|  |  |  |  |  |  |  | *Trachemys grayi* (Bocourt, 1868) |
|  |  |  |  |  |  |  | *Trachemys venusta* Gray, 1856 |
|  |  |  | **Family Geoemydidae Theobald, 1868 [1G = 2]** | | | | |
|  |  |  |  |  | *Rhinoclemmys* Fitzinger, 1835 [3] | | |
|  |  |  |  |  |  |  | *Rhinoclemmys annulata* (Gray, 1860) |
|  |  |  |  |  |  |  | *Rhinoclemmys funerea* (Cope, 1875) |
|  |  |  |  |  |  |  | *Rhinoclemmys pulcherrima* (Gray, 1855) |
|  | **Order Squamata Oppel, 1811 [28F/99G + 3\*G = 241 (234+7\*)]** | | | | | | |
|  | **Sauria Macartney, 1802 [16F/31G + 2\*G = 94 (88+6\*)]** | | | | | | |
|  |  | ***Infraorder Gekkota Cuvier, 1817 [4F/6G + 2\*G = 13 (9+4\*)]*** | | | | | |
|  |  |  | **Family Eublepharidae Boulenger, 1883 [1G = 1]** | | | | |
|  |  |  |  |  | *Coleonyx* Gray, 1845 [1] | | |
|  |  |  |  |  |  |  | *Coleonyx mitratus* (Peters, 1863) |
|  |  |  | **Family Gekkonidae Gray, 1825 [2\*G = 4\*]** | | | | |
|  |  |  |  |  | \**Hemidactylus* Oken, 1817 [3\*] | | |
|  |  |  |  |  |  |  | \**Hemidactylus frenatus* (Duméril & Bibron, 1836) |
|  |  |  |  |  |  |  | \**Hemidactylus garnotii* (Duméril & Bibron, 1836) |
|  |  |  |  |  |  |  | *\*Hemidactylus mabouia* (Moreau de Jonnès, 1818) |
|  |  |  |  |  | \**Lepidodactylus* Fitzinger, 1843 [1] | | |
|  |  |  |  |  |  |  | *\*Lepidodactylus lugubris* (Duméril & Bibron, 1836) |
|  |  |  | **Family Phyllodactylidae Gamble, Bauer, Greenbaum & Jackman, 2008 [2G = 2]** | | | | |
|  |  |  |  |  | *Phyllodactylus* Gray, 1828 [1] | | |
|  |  |  |  |  |  |  | *Phyllodactylus tuberculosus* Wiegmann, 1835 |
|  |  |  |  |  | *Thecadactylus* Oken, 1817 [1] | | |
|  |  |  |  |  |  |  | *Thecadactylus rapicauda* (Houttuyn, 1782) |
|  |  |  | **Family Sphaerodactylidae Underwood, 1954 [3G = 6]** | | | | |
|  |  |  |  |  | *Gonatodes* Fitzinger, 1843 [1] | | |
|  |  |  |  |  |  |  | *Gonatodes albogularis* (Duméril & Bibron, 1836) |
|  |  |  |  |  | *Lepidoblepharis* Peracca, 1897 [1] | | |
|  |  |  |  |  |  |  | *Lepidoblepharis xanthostigma* (Noble, 1916) |
|  |  |  |  |  | *Sphaerodactylus* Wagler, 1830 [4] | | |
|  |  |  |  |  |  |  | *Sphaerodactylus graptolaemus* Harris & Kluge, 1984 |
|  |  |  |  |  |  |  | *Sphaerodactylus homolepis* Cope, 1886 |
|  |  |  |  |  |  |  | *Sphaerodactylus millepunctatus* (Hallowell, 1861) |
|  |  |  |  |  |  |  | *Sphaerodactylus pacificus* Stejneger, 1903 |
|  |  | ***Infraorder Scincomorpha Camp, 1923 [2F/4G = 7]*** | | | | | |
|  |  |  | **Family Scincidae Gray, 1825 [3G = 5]** | | | | |
|  |  |  |  | **Subfamily Mabuyinae Mittleman, 1952 [1G = 3]** | | | |
|  |  |  |  |  | *Marisora* Hedges & Conn, 2012 [3] | | |
|  |  |  |  |  |  |  | *Marisora alliacea* (Cope, 1875) |
|  |  |  |  |  |  |  | *Marisora brachypoda* (Taylor, 1956) |
|  |  |  |  |  |  |  | *Marisora unimarginata* (Cope, 1862) |
|  |  |  |  | **Subfamily Scincinae Gray, 1825 [1G = 1]** | | | |
|  |  |  |  |  | *Mesoscincus* Griffith, Ngo & Murphy, 2000 [1] | | |
|  |  |  |  |  |  |  | *Mesoscincus managuae* (Dunn, 1933) |
|  |  |  |  | **Subfamily Sphenomorphinae [1G = 1]** | | | |
|  |  |  |  |  | *Scincella* Mittleman, 1950 [1] | | |
|  |  |  |  |  |  |  | *Scincella cherriei* (Cope, 1893) |
|  |  |  | **Family Xantusiidae Baird, 1858 [1G = 2]** | | | | |
|  |  |  |  |  | *Lepidophyma* Duméril, 1851 [2] | | |
|  |  |  |  |  |  |  | *Lepidophyma flavimaculatum* Duméril, 1851 |
|  |  |  |  |  |  |  | *Lepidophyma reticulatum* Taylor, 1955 |
|  |  | ***Infraorder Laterata Vidal & Hedges, 2005 [3F/9G = 13]*** | | | | | |
|  |  |  | **Family Alopoglossidae Goicoechea, Frost, De la Riva, Pellegrino, Sites Jr., Rodrigues & Padial, 2016 [1G = 1]** | | | | |
|  |  |  |  |  | *Alopoglossus* Boulenger, 1885 [1] | | |
|  |  |  |  |  |  |  | *Alopoglossus plicatus* (Taylor, 1949) |
|  |  |  | **Family Gymnophthalmidae Fitzinger, 1826 [5G = 6]** | | | | |
|  |  |  |  | **Subfamily Cercosaurinae Gray, 1838 [4G = 5]** | | | |
|  |  |  |  |  | *Anadia* Gray, 1845 [1] | | |
|  |  |  |  |  |  |  | *Anadia ocellata* Gray, 1845 |
|  |  |  |  |  | *Bachia* Gray, 1845 [1] | | |
|  |  |  |  |  |  |  | *Bachia blairi* (Dunn, 1940) |
|  |  |  |  |  | *Centrosaura* Vásquez-Restrepo, Ibáñez, Sánchez-Pacheco & Daza, 2020 [1] | | |
|  |  |  |  |  |  |  | *Centrosaura apodema* (Uzzell, 1966) |
|  |  |  |  |  | *Loxopholis* Cope, 1869 [2] | | |
|  |  |  |  |  |  |  | *Loxopholis rugiceps* Cope, 1869 |
|  |  |  |  |  |  |  | *Loxopholis southi* (Ruthven & Gaige, 1924) |
|  |  |  |  | **Subfamily Gymnophthalminae Fitzinger, 1826 [1G = 1]** | | | |
|  |  |  |  |  | *Gymnophthalmus* Merrem, 1820 [1] | | |
|  |  |  |  |  |  |  | *Gymnophthalmus speciosus* (Hallowell, 1861) |
|  |  |  | **Family Teiidae Gray, 1827 [3G = 6]** | | | | |
|  |  |  |  |  | *Ameiva* Meyer, 1795 [1] | | |
|  |  |  |  |  |  |  | *Ameiva praesignis* (Baird & Girard, 1852) |
|  |  |  |  |  | *Aspidoscelis* Fitzinger, 1843 [1] | | |
|  |  |  |  |  |  |  | *Aspidoscelis deppii* (Wiegmann, 1834) |
|  |  |  |  |  | *Holcosus* Cope, 1862 [4] | | |
|  |  |  |  |  |  |  | *Holcosus festivus* (Lichtenstein & Von Martens, 1856) |
|  |  |  |  |  |  |  | *Holcosus leptophrys* (Cope, 1893) |
|  |  |  |  |  |  |  | *Holcosus parvus* (Barbour & Noble, 1915) |
|  |  |  |  |  |  |  | *Holcosus quadrilineatus* (Hallowell, 1861) |
|  |  | ***Infraorder Iguania Cuvier, 1817 [5F/7G = 54 (52 + 2\*)]*** | | | | | |
|  |  |  | **Family Anolidae Cocteau, 1836 [1G = 43 (41 + 2\*]** | | | | |
|  |  |  |  |  | *Anolis* Daudin, 1802[45 (43 + 2\*)] | | |
|  |  |  |  |  |  |  | *Anolis alocomyos* (Köhler, Vargas & Lotzkat, 2014) |
|  |  |  |  |  |  |  | *Anolis altae* Dunn, 1930 |
|  |  |  |  |  |  |  | *Anolis aquaticus* Taylor, 1956 |
|  |  |  |  |  |  |  | *Anolis arenal* (Köhler & Vargas, 2019) |
|  |  |  |  |  |  |  | *Anolis auratus* Daudin, 1802 |
|  |  |  |  |  |  |  | *Anolis benedikti* Lotzkat, Bienentreu, Hertz & Köhler, 2011 |
|  |  |  |  |  |  |  | *Anolis biporcatus* (Wiegmann, 1834) |
|  |  |  |  |  |  |  | *Anolis capito* Peters, 1863 |
|  |  |  |  |  |  |  | *Anolis carpenteri* Echelle, Echelle & Fitch, 1971 |
|  |  |  |  |  |  |  | *Anolis charlesmyersi* Köhler, 2010 |
|  |  |  |  |  |  |  | \**Anolis cristatellus* Duméril & Bibron, 1837 |
|  |  |  |  |  |  |  | *Anolis cryptolimifrons* Köhler & Sunyer, 2008 |
|  |  |  |  |  |  |  | *Anolis cupreus* Hallowell, 1860 |
|  |  |  |  |  |  |  | *Anolis datzorum* Köhler, Ponce, Sunyer & Batista, 2007 |
|  |  |  |  |  |  |  | *Anolis frenatus* Cope, 1899 |
|  |  |  |  |  |  |  | *Anolis fungosus* Myers, 1971 |
|  |  |  |  |  |  |  | *Anolis humilis* Peters, 1863 |
|  |  |  |  |  |  |  | *Anolis ibanezi* Poe, Latella, Ryan & Schaad, 2009 |
|  |  |  |  |  |  |  | *Anolis insignis* Cope, 1871 |
|  |  |  |  |  |  |  | *Anolis kemptoni* Dunn, 1940 |
|  |  |  |  |  |  |  | *Anolis laeviventris* (Wiegmann, 1834) |
|  |  |  |  |  |  |  | *Anolis leditzigorum* (Köhler, Vargas & Lotzkat, 2014) |
|  |  |  |  |  |  |  | *Anolis lemurinus* Cope, 1861 |
|  |  |  |  |  |  |  | *Anolis limifrons* Cope, 1862 |
|  |  |  |  |  |  |  | *Anolis marsupialis* Taylor, 1956 |
|  |  |  |  |  |  |  | *Anolis microtus* Cope, 1871 |
|  |  |  |  |  |  |  | *Anolis monteverde* Köhler, 2009 |
|  |  |  |  |  |  |  | *Anolis osa* Köhler, Dehling & Köhler, 2010 |
|  |  |  |  |  |  |  | *Anolis oxylophus* Cope, 1875 |
|  |  |  |  |  |  |  | *Anolis pachypus* Cope, 1875 |
|  |  |  |  |  |  |  | *Anolis pentaprion* Cope, 1863 |
|  |  |  |  |  |  |  | *Anolis polylepis* Peters, 1874 |
|  |  |  |  |  |  |  | *Anolis purpurescens* Cope, 1899 |
|  |  |  |  |  |  |  | *Anolis riparius* Chaves, Ryan, Bolaños, Márquez, Köhler & Poe, 2023 |
|  |  |  |  |  |  |  | *Anolis robinsoni* Chaves, Ryan, Bolaños, Márquez, Köhler & Poe, 2023 |
|  |  |  |  |  |  |  | \**Anolis sagrei* Duméril & Bibron, 1837 |
|  |  |  |  |  |  |  | *Anolis salvini* Boulenger, 1885 |
|  |  |  |  |  |  |  | *Anolis savagei* Poe & Ryan, 2017 |
|  |  |  |  |  |  |  | *Anolis tenorioensis* Köhler, 2011 |
|  |  |  |  |  |  |  | *Anolis townsendi* Stejneger, 1900 |
|  |  |  |  |  |  |  | *Anolis tropidolepis* Boulenger, 1885 |
|  |  |  |  |  |  |  | *Anolis unilobatus* Köhler & Vessely, 2010 |
|  |  |  |  |  |  |  | *Anolis woodi* Dunn, 1940 |
|  |  |  | **Family Corytophanidae Fitzinger, 1843 [2G = 4]** | | | | |
|  |  |  |  |  | *Basiliscus* Laurenti, 1768 [3] | | |
|  |  |  |  |  |  |  | *Basiliscus basiliscus* (Linneaeus, 1758) |
|  |  |  |  |  |  |  | *Basiliscus plumifrons* Cope, 1875 |
|  |  |  |  |  |  |  | *Basiliscus vittatus* Wiegmann, 1828 |
|  |  |  |  |  | *Corytophanes* Boie, 1826 [1] | | |
|  |  |  |  |  |  |  | *Corytophanes cristatus* (Merrem, 1820) |
|  |  |  | **Family Iguanidae Oppel, 1811 [2G = 3]** | | | | |
|  |  |  |  |  | *Ctenosaura* Wiegmann, 1828 [2] | | |
|  |  |  |  |  |  |  | *Ctenosaura quinquecarinata* (Gray, 1842) |
|  |  |  |  |  |  |  | *Ctenosaura similis* (Gray, 1831) |
|  |  |  |  |  | *Iguana* Laurenti, 1768 [1] | | |
|  |  |  |  |  |  |  | *Iguana iguana* (Linnaeus, 1758) |
|  |  |  | **Family Phrynosomatidae Fitzinger, 1843 [1G = 3]** | | | | |
|  |  |  |  |  | *Sceloporus* Wiegmann, 1828 [3] | | |
|  |  |  |  |  |  |  | *Sceloporus malachiticus* Cope, 1864 |
|  |  |  |  |  |  |  | *Sceloporus squamosus* Bocourt, 1874 |
|  |  |  |  |  |  |  | *Sceloporus variabilis* Wiegmann, 1834 |
|  |  |  | **Family Polychrotidae Fitzinger, 1843 [1G = 1]** | | | | |
|  |  |  |  |  | *Polychrus* Cuvier 1816 [1] | | |
|  |  |  |  |  |  |  | *Polychrus gutturosus* Berthold, 1845 |
|  |  | ***Infraorder Anguimorpha Fürbringer, 1900 [2F/5G = 7]*** | | | | | |
|  |  |  | **Family Anguidae Gray, 1825 [2G = 2]** | | | | |
|  |  |  |  |  | *Abronia* Gray, 1838 [1] | | |
|  |  |  |  |  |  |  | *Abronia monticola* (Cope, 1877) |
|  |  |  |  |  | *Gerrhonotus* Wiegmann, 1828 [1] | | |
|  |  |  |  |  |  |  | *Gerrhonotus rhombifer* Peters, 1876 |
|  |  |  | **Family Diploglossidae Bocourt, 1873 [3G = 5]** | | | | |
|  |  |  |  |  | *Diploglossus* Wiegmann, 1834 [2] | | |
|  |  |  |  |  |  |  | *Diploglossus monotropis* (Kuhl, 1820) |
|  |  |  |  |  | *Mesoamericus* Schools & Hedges, 2021 [1] | | |
|  |  |  |  |  |  |  | *Mesoamericus bilobatus* (O'Shaughnessy, 1874) |
|  |  |  |  |  | *Siderolamprus* Cope, 1861 [3] | | |
|  |  |  |  |  |  |  | *Siderolamprus cyanochloris* (Cope, 1894) |
|  |  |  |  |  |  |  | *Siderolamprus hylaius* (Savage & Lips, 1993) |
|  |  |  |  |  |  |  | *Siderolamprus orobius* (Savage & Lips, 1993) |
|  | **Serpentes Linnaeus, 1758 [12F/68G + 1\*G= 147 (146 + 1\*)]** | | | | | | |
|  |  | ***Infraorder Alethinophidia Nopcsa, 1923 [9F/63G =141]*** | | | | | |
|  |  | **Superfamily Booidea Gray, 1825 [2F/4G = 5]** | | | | | |
|  |  |  | **Family Boidae Gray, 1825 [3G = 4]** | | | | |
|  |  |  |  |  | *Boa* Linnaeus, 1758 [1] | | |
|  |  |  |  |  |  |  | *Boa imperator* Daudin, 1803 |
|  |  |  |  |  | *Corallus* Daudin, 1803 [2] | | |
|  |  |  |  |  |  |  | *Corallus annulatus* (Cope, 1875) |
|  |  |  |  |  |  |  | *Corallus ruschenbergerii* (Cope, 1875) |
|  |  |  |  |  | *Epicrates* Wagler, 1830 [1] | | |
|  |  |  |  |  |  |  | *Epicrates maurus* Gray, 1849 |
|  |  |  | **Family Ungaliophiidae McDowell, 1987 [1G = 1]** | | | | |
|  |  |  |  |  | *Ungaliophis* Müller, 1880 [1] | | |
|  |  |  |  |  |  |  | *Ungaliophis panamensis* Schmidt, 1933 |
|  |  | **Superfamily Colubroidea Oppel, 1811 [4F/47G = 110]** | | | | | |
|  |  |  | **Family Colubridae Oppel, 1811 [18G = 41]** | | | | |
|  |  |  |  |  | *Chironius* Fitzinger, 1826 [3] | | |
|  |  |  |  |  |  |  | *Chironius exoletus* (Linnaues, 1758) |
|  |  |  |  |  |  |  | *Chironius falvopictus* (Werner, 1909) |
|  |  |  |  |  |  |  | *Chironius grandisquamis* (Peters, 1868) |
|  |  |  |  |  | *Dendrophidion* Fitzinger, 1843 [6] | | |
|  |  |  |  |  |  |  | *Dendrophidion apharocybe* Cadle, 2012 |
|  |  |  |  |  |  |  | *Dendrophidion clarkii* Dunn, 1933 |
|  |  |  |  |  |  |  | *Dendrophidion crybelum* Cadle, 2012 |
|  |  |  |  |  |  |  | *Dendrophidion paucicarinatum* (Cope, 1894) |
|  |  |  |  |  |  |  | *Dendrophidion percarinatum* (Cope, 1893) |
|  |  |  |  |  |  |  | *Dendrophidion rufiterminorum* Cadle & Savage, 2012 |
|  |  |  |  |  | *Drymarchon* Fitzinger, 1843 [1] | | |
|  |  |  |  |  |  |  | *Drymarchon melanurus* (Duméril, Bibron & Duméril, 1854) |
|  |  |  |  |  | *Drymobius* Fitzinger, 1843 [3] | | |
|  |  |  |  |  |  |  | *Drymobius margaritiferus* (Schlegel, 1837) |
|  |  |  |  |  |  |  | *Drymobius melanotropis* (Cope, 1875) |
|  |  |  |  |  |  |  | *Drymobius rhombifer* (Günther, 1860) |
|  |  |  |  |  | *Lampropeltis* Fitzinger, 1843 [2] | | |
|  |  |  |  |  |  |  | *Lampropeltis abnorma* (Bocourt, 1886) |
|  |  |  |  |  |  |  | *Lampropeltis micropholis* Cope, 1860 |
|  |  |  |  |  | *Leptodrymus* Amaral, 1927 [1] | | |
|  |  |  |  |  |  |  | *Leptodrymus pulcherrimus* (Cope, 1874) |
|  |  |  |  |  | *Leptophis* Bell, 1825 [5] | | |
|  |  |  |  |  |  |  | *Leptophis depressirostris* (Cope, 1861) |
|  |  |  |  |  |  |  | *Leptophis mexicanus* Duméril, Bibron & Duméril, 1854 |
|  |  |  |  |  |  |  | *Leptophis nebulosus* Oliver, 1942 |
|  |  |  |  |  |  |  | *Leptophis occidentalis* (Günther, 1859) |
|  |  |  |  |  |  |  | *Leptophis riveti* Despax, 1910 |
|  |  |  |  |  | *Masticophis* Baird & Girard, 1853 [1] | | |
|  |  |  |  |  |  |  | *Masticophis mentovarius* (Duméril, Bibron & Duméril, 1854) |
|  |  |  |  |  | *Mastigodryas* Amaral, 1934 [1] | | |
|  |  |  |  |  |  |  | *Mastigodryas melanolomus* (Cope, 1868) |
|  |  |  |  |  | *Oxybelis* Wagler, 1830 [3] | | |
|  |  |  |  |  |  |  | *Oxybelis brevirostris* (Cope, 1861) |
|  |  |  |  |  |  |  | *Oxybelis fulgidus* (Daudin, 1803) |
|  |  |  |  |  |  |  | *Oxybelis koehleri* Jadin, Blair, Orlofske, Jowers, Rivas, Vitt, Ray, Smith & Murphy, 2020 |
|  |  |  |  |  | *Phrynonax* Cope, 1862 [1] | | |
|  |  |  |  |  |  |  | *Phrynonax poecilonotus* (Günther, 1858) |
|  |  |  |  |  | *Rhinobothryum* Wagler, 1830 [1] | | |
|  |  |  |  |  |  |  | *Rhinobothryum bovallii* Andersson, 1916 |
|  |  |  |  |  | *Scolecophis* Fitzinger, 1843 [1] | | |
|  |  |  |  |  |  |  | *Scolecophis atrocinctus* (Schlegel, 1837) |
|  |  |  |  |  | *Senticolis* Dowling & Fries, 1987 [1] | | |
|  |  |  |  |  |  |  | *Senticolis triaspis* (Cope, 1866) |
|  |  |  |  |  | *Spilotes* Wagler, 1830 [1] | | |
|  |  |  |  |  |  |  | *Spilotes pullatus* (Linneaeus, 1758) |
|  |  |  |  |  | *Stenorrhina* Duméril, 1853 [2] | | |
|  |  |  |  |  |  |  | *Stenorrhina degenhardtii* (Berthold, 1845) |
|  |  |  |  |  |  |  | *Stenorrhina freminvillii* Duméril, Bibron & Duméril, 1854 |
|  |  |  |  |  | *Tantilla* Baird and 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* (Peters, 1863) |
|  |  |  |  |  |  |  | *Tantilla vermiformis* (Hallowell, 1861) |
|  |  |  |  |  | *Trimorphodon* Cope, 1861 [1] | | |
|  |  |  |  |  |  |  | *Trimorphodon quadruplex* Smith, 1941 |
|  |  |  | **Family Dipsadidae Bonaparte, 1840 [27G = 66]** | | | | |
|  |  |  |  |  | *Amastridium* Cope, 1861 [1] | | |
|  |  |  |  |  |  |  | *Amastridium veliferum* Cope,1861 |
|  |  |  |  |  | *Clelia* Fitzinger, 1826 [2] | | |
|  |  |  |  |  |  |  | *Clelia clelia* (Daudin, 1803) |
|  |  |  |  |  |  |  | *Clelia scytalina* (Cope, 1867) |
|  |  |  |  |  | *Coniophanes* Hallowell, 1860 [3] | | |
|  |  |  |  |  |  |  | *Coniophanes bipunctatus* (Günther, 1858) |
|  |  |  |  |  |  |  | *Coniophanes fissidens* (Günther, 1858) (593) |
|  |  |  |  |  |  |  | *Coniophanes piceivittis* Cope, 1870 |
|  |  |  |  |  | *Conophis* W. Peters, 1860 [1] | | |
|  |  |  |  |  |  |  | *Conophis lineatus* (Duméril, Bibron & Duméril, 1854) |
|  |  |  |  |  | *Crisantophis* Villa, 1971 [1] | | |
|  |  |  |  |  |  |  | *Crisantophis nevermanni* (Dunn, 1937) |
|  |  |  |  |  | *Dipsas* Laurenti, 1768 [3] | | |
|  |  |  |  |  |  |  | *Dipsas articulata* (Cope, 1868) |
|  |  |  |  |  |  |  | *Dipsas bicolor* (Günther, 1895) |
|  |  |  |  |  |  |  | *Dipsas tenuissima* Taylor, 1954 |
|  |  |  |  |  | *Enuliophis* McCranie & Villa, 1993 [1] | | |
|  |  |  |  |  |  |  | *Enuliophis sclateri* (Boulenger, 1894) |
|  |  |  |  |  | *Enulius* Cope, 1871 [1] | | |
|  |  |  |  |  |  |  | *Enulius flavitorques* (Cope, 1869) |
|  |  |  |  |  | *Erythrolamprus* Wagler, 1830 [3] | | |
|  |  |  |  |  |  |  | *Erythrolamprus bizona* Jan, 1863 |
|  |  |  |  |  |  |  | *Erythrolamprus epinephalus* (Cope, 1862) |
|  |  |  |  |  |  |  | *Erythrolamprus mimus* (Cope, 1868) |
|  |  |  |  |  | *Geophis* Wagler, 1830 [7] | | |
|  |  |  |  |  |  |  | *Geophis brachycephalus* (Cope, 1871) |
|  |  |  |  |  |  |  | *Geophis downsi* Savage, 1981 |
|  |  |  |  |  |  |  | *Geophis godmani* Boulenger, 1894 |
|  |  |  |  |  |  |  | *Geophis hoffmanni* (Peters, 1859) |
|  |  |  |  |  |  |  | *Geophis ruthveni* Werner, 1925 |
|  |  |  |  |  |  |  | *Geophis talamancae* Lips & Savage, 1994 |
|  |  |  |  |  |  |  | *Geophis zeledoni* Taylor, 1954 |
|  |  |  |  |  | *Hydromorphus* Peters, 1859 [1] | | |
|  |  |  |  |  |  |  | *Hydromorphus concolor* Peters, 1859 |
|  |  |  |  |  | *Imantodes* Duméril, 1853 [3] | | |
|  |  |  |  |  |  |  | *Imantodes cenchoa* (Linnaeus, 1758) |
|  |  |  |  |  |  |  | *Imantodes gemmistratus* Cope, 1861 |
|  |  |  |  |  |  |  | *Imantodes inornatus* Boulenger, 1896 |
|  |  |  |  |  | *Leptodeira* Fitzinger, 1843 [4] | | |
|  |  |  |  |  |  |  | *Leptodeira nigrofasciata* Günther, 1868 |
|  |  |  |  |  |  |  | *Leptodeira rhombifera* Günther, 1872 |
|  |  |  |  |  |  |  | *Leptodeira rubricata* (Cope, 1893) (612) |
|  |  |  |  |  |  |  | *Leptodeira septentrionalis* (Kennicott, 1859) aff. *ornata* |
|  |  |  |  |  | *Ninia* Baird & Girard, 1853 [4] | | |
|  |  |  |  |  |  |  | *Ninia celata* McCranie & Wilson, 1995 |
|  |  |  |  |  |  |  | *Ninia maculata* (Peters, 1861) |
|  |  |  |  |  |  |  | *Ninia psephota* (Cope, 1875) |
|  |  |  |  |  |  |  | *Ninia sebae* (Duméril, Bibron & Duméril, 1854) |
|  |  |  |  |  | *Nothopsis* Cope, 1871 [1] | | |
|  |  |  |  |  |  |  | *Nothopsis rugosus* Cope, 1871 |
|  |  |  |  |  | *Oxyrhopus* Wagler, 1830 [1] | | |
|  |  |  |  |  |  |  | *Oxyrhopus petolarius* (Linnaeus, 1758) |
|  |  |  |  |  | *Pliocercus* Cope, 1860 [1] | | |
|  |  |  |  |  |  |  | *Pliocercus euryzonus* Cope, 1862 |
|  |  |  |  |  | *Pseudoboa* Schneider, 1801 [1] | | |
|  |  |  |  |  |  |  | *Pseudoboa neuwiedii* (Duméril, Bibron & Duméril, 1854) |
|  |  |  |  |  | *Rhadinaea* Cope, 1863 [3] | | |
|  |  |  |  |  |  |  | *Rhadinaea calligaster* (Cope, 1875) |
|  |  |  |  |  |  |  | *Rhadinaea decorate* (Günther, 1858) |
|  |  |  |  |  |  |  | *Rhadinaea pulveriventris* Boulenger, 1896 |
|  |  |  |  |  | *Rhadinella* Smith, 1941 [2] | | |
|  |  |  |  |  |  |  | *Rhadinella godmani* (Günther, 1865) |
|  |  |  |  |  |  |  | *Rhadinella 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, 2001 |
|  |  |  |  |  |  |  | *Sibon longifrenis* (Stejneger, 1909) |
|  |  |  |  |  |  |  | *Sibon nebulatus* (Linnaues, 1758) |
|  |  |  |  |  | *Siphlophis* Fitzinger, 1843 [1] | | |
|  |  |  |  |  |  |  | *Siphlophis compressus* (Daudin, 1803) |
|  |  |  |  |  | *Tretanorhinus* Duméril, Bibron & Duméril, 1854 [1] | | |
|  |  |  |  |  |  |  | *Tretanorhinus nigroluteus* Cope, 1861 |
|  |  |  |  |  | *Trimetopon* Cope, 1885 [6] | | |
|  |  |  |  |  |  |  | *Trimetopon barbouri* Dunn, 1930 |
|  |  |  |  |  |  |  | *Trimetopon gracile* (Günther, 1872) |
|  |  |  |  |  |  |  | *Trimetopon pliolepis* Cope, 1894 |
|  |  |  |  |  |  |  | *Trimetopon simile* Dunn, 1930 |
|  |  |  |  |  |  |  | *Trimetopon slevini* Dunn, 1940 |
|  |  |  |  |  |  |  | *Trimetopon viquezi* Dunn, 1937 |
|  |  |  |  |  | *Tropidodipsas* Günther, 1858 [1] | | |
|  |  |  |  |  |  |  | *Tropidodipsas sartorii* Cope, 1863 |
|  |  |  |  |  | *Urotheca* Bibron, 1843 [5] | | |
|  |  |  |  |  |  |  | *Urotheca decipiens* (Günther, 1893) |
|  |  |  |  |  |  |  | *Urotheca fulviceps* (Cope, 1886) |
|  |  |  |  |  |  |  | *Urotheca guentheri* (Dunn, 1938) |
|  |  |  |  |  |  |  | *Urotheca myersi* Savage & Lahanas, 1989 |
|  |  |  |  |  |  |  | *Urotheca pachyura* (Cope, 1875) |
|  |  |  |  |  | *Xenodon* Boie, 1827 [1] | | |
|  |  |  |  |  |  |  | *Xenodon angustirostris* (Wied-Neuwied, 1824) |
|  |  |  | **Family Natricidae Bonaparte, 1838 [1G = 2]** | | | | |
|  |  |  |  |  | *Thamnophis* Fitzinger, 1843 [2] | | |
|  |  |  |  |  |  |  | *Thamnophis marcianus* (Baird & Girard, 1853) |
|  |  |  |  |  |  |  | *Thamnophis proximus* (Say, 1823) |
|  |  |  | **Family Sibynophiidae Dunn, 1928 [1G = 1]** | | | | |
|  |  |  |  |  | *Scaphiodontophis* Taylor & Smith, 1943 [1] | | |
|  |  |  |  |  |  |  | *Scaphiodontophis venustissimus* (Günther, 1894) |
|  |  |  | **Family Elapidae Boie, 1827 [2G = 8]** | | | | |
|  |  |  |  |  | *Hydrophis* Latreille, 1801 [1] | | |
|  |  |  |  |  |  |  | *Hydrophis platurus* (Linnaeus, 1766) |
|  |  |  |  |  | *Micrurus* Wagler, 1824 [7] | | |
|  |  |  |  |  |  |  | *Micrurus alleni* Schmidt, 1936 |
|  |  |  |  |  |  |  | *Micrurus clarki* Schmidt, 1936 |
|  |  |  |  |  |  |  | *Micrurus mipartitus* (Duméril, Bibron & Duméril, 1854) |
|  |  |  |  |  |  |  | *Micrurus mosquitensis* Schmidt, 1933 |
|  |  |  |  |  |  |  | *Micrurus multifasciatus* Jan, 1858 |
|  |  |  |  |  |  |  | *Micrurus nigrocinctus* (Girard, 1854) |
|  |  |  |  |  |  |  | *Micrurus yatesi* (Dunn, 1942) |
|  |  |  | **Family Loxocemidae Cope, 1861 (1G = 1)** | | | | |
|  |  |  |  |  | *Loxocemus* Cope, 1861 [1] | | |
|  |  |  |  |  |  |  | *Loxocemus bicolor* Cope, 1861 |
|  |  |  | **Family Viperidae Oppel, 1811 [9G = 17]** | | | | |
|  |  |  |  |  | *Agkistrodon* Palisot de Beauvois, 1799 [1] | | |
|  |  |  |  |  |  |  | *Agkistrodon howardgloydi* (Conant, 1984) |
|  |  |  |  |  | *Atropoides* Werman, 1992 [1] | | |
|  |  |  |  |  |  |  | *Atropoides picadoi* (Dunn, 1939) |
|  |  |  |  |  | *Bothriechis* Peters, 1859 [5] | | |
|  |  |  |  |  |  |  | *Bothriechis lateralis* Peters, 1862 |
|  |  |  |  |  |  |  | *Bothriechis nigroadspersus* (Steindachner, 1870) |
|  |  |  |  |  |  |  | *Bothriechis nigroviridis* Peters, 1859 |
|  |  |  |  |  |  |  | *Bothriechis nubestris* Doan, Mason, Castoe, Sasa & Parkinson, 2016 |
|  |  |  |  |  |  |  | *Bothriechis supraciliaris* (Taylor, 1954) |
|  |  |  |  |  | *Bothrops* Wagler, 1824 [1] | | |
|  |  |  |  |  |  |  | *Bothrops asper* (Garman, 1884) |
|  |  |  |  |  | *Cerrophidion* Campbell & Lamar, 1992 [1] | | |
|  |  |  |  |  |  |  | *Cerrophidion sasai* Jadin, Townsend, Castoe & Campbell, 2012 |
|  |  |  |  |  | *Crotalus* Linnaeus, 1758 [1] | | |
|  |  |  |  |  |  |  | *Crotalus simus* Latrielle, 1801 |
|  |  |  |  |  | *Lachesis* Daudin, 1803 [2] | | |
|  |  |  |  |  |  |  | *Lachesis melanocephala* Solórzano & Cerdas, 1986 |
|  |  |  |  |  |  |  | *Lachesis stenophrys* Cope, 1875 |
|  |  |  |  |  | *Metlapilcoatlus* Campbell, Frost & Castoe, 2019 [1] | | |
|  |  |  |  |  |  |  | *Metlapilcoatlus mexicanus* (Duméril, Bibron & Duméril, 1854) |
|  |  |  |  |  | *Porthidium* Cope, 1871 [4] | | |
|  |  |  |  |  |  |  | *Porthidium nasutum* (Bocourt, 1868) |
|  |  |  |  |  |  |  | *Porthidium ophryomegas* (Bocourt, 1868) |
|  |  |  |  |  |  |  | *Porthidium porrasi* Lamar & Sasa, 2003 |
|  |  |  |  |  |  |  | *Porthidium volcanicum* Solórzano, 1994 |
|  |  | ***Infraorder Scolecophidia Cope, 1864* [3F, 5G + 1G\* = 6 (5 + 1\*)]** | | | | | |
|  |  |  | **Family Anomalepididae Taylor, 1939 [3G = 3]** | | | | |
|  |  |  |  |  | *Anomalepis* Jan, 1860 [1] | | |
|  |  |  |  |  |  |  | *Anomalepis mexicana* Jan, 1860 |
|  |  |  |  |  | *Helminthophis* Peters, 1860 [1] | | |
|  |  |  |  |  |  |  | *Helminthophis frontalis* (Peters, 1860) |
|  |  |  |  |  | *Liotyphlops* Peters, 1857 [1] | | |
|  |  |  |  |  |  |  | *Liotyphlops albirostris* (Peters, 1857) |
|  |  |  | **Family Leptotyphlopidae Stejneger, 1892 [1G = 1]** | | | | |
|  |  |  |  |  | *Epictia* Gray, 1845 [1] | | |
|  |  |  |  |  |  |  | *Epictia ater* (Taylor, 1940) |
|  |  |  | **Family Typhlopidae Merrem, 1820 [1G + 1G\* = 2 (1 + 1\*)]** | | | | |
|  |  |  |  |  | *Amerotyphlops* Hedges, Marion, Marin & Vidal, 2014 [1] | | |
|  |  |  |  |  |  |  | *Amerotyphlops costaricensis* (Jiménez & Savage, 1963) |
|  |  |  |  |  | \**Virgotyphlops* Daudin, 1803 [1] | | |
|  |  |  |  |  |  |  | *\*Virgotyphlops braminus* (Daudin, 1803) |