

# THE NORTH AMERICAN REPTILES AND BATRACHIANS.

A LIST OF THE SPECIES OCCURRING NORTH OF THE ISTHMUS  
OF TEHUANTEPEC, WITH REFERENCES.

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BY SAMUEL GARMAN.

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THE following list is presented in the shape in which it has proved most useful in my own work. As in other publications, I have placed the date immediately after the authority, as one naturally thinks it. In order accurately to determine species, comparison should be made with the original description rather than with the opinion of a subsequent writer; for this reason reference is made to the discoverer and not to one in whose opinion the species belongs to a genus some other than that in which it was originally placed. Consequently, the references are under names unaffected by frequent changes from one genus to another.

Heretofore, the faunal limit for North America has been patriotically placed at the Mexican boundary. The distribution of the reptiles and Batrachians proves this limit to be unscientific, and shows the nearest approach to a separation between the faunæ of the Americas, North and South, at the southern extremity of the tableland of Mexico. Attempt is made in this list to include all the species known to occur north of that point.

When several localities for a species are given, they are chosen to indicate the extent of its range as nearly as possible.

With a slight modification, the binomial system is followed. For various reasons, as will be seen below, the tri-

or polynomials affected by different authors, can hardly be considered improvements. Such names as, for example, *Cinosternum* (*Thyrosternum*) *pennsylvanicum pennsylvanicum* (v) x, or *Tropidonotus* (*Nerodia*) *compressicaudus compressicaudus flavirostris* (v) y, if there were varieties, have the appearance of doubtful advances from a binomial system. According to that system, if V first describes a species under a certain title, and W discovers one closely allied — giving it a name — and X says W's species is not sufficiently distinct, X is entitled to the credit rather than W, and the formula reads *Genus* (*Subgenus*) *species subspecies* (V) X. That is, V is credited with a form he never saw, and W is discredited by X who claims to rank with V because, for whatever reason, possibly insufficient knowledge, he arrives at a conclusion differing from that of W. If there are varieties, Y may displace X, and for authorities we should have (V) Y, or, if Z discovers that Y's variety is out of place, (V) Z, and in either case the authorities cited may give us no information concerning the form to which the names refer.

If we are now to adopt a polynomial system, we might, to be more consistent, accept the names given before Linné's time.

The modification suggested in the binomials consists in using a symbol, a letter, to represent each form or race of a species with its history or synonymy. To illustrate, *Eutænia sirtalis* Linn.; B. & G., is the first (A) of a group of forms of the species *sirtalis*, Linné being authority for the species, and Baird and Girard for its position in the genus. The A can always be understood and need not be written with the first described form. If either the symbol or the name following it is in italics there can be no confusion.

B *Eutæniæ sirtalis* is the form to which Catesby gave the name *Vipera gracilis maculatus*, afterward named by

Linné *Coluber ordinatus*. The authorities for the races succeeding the first may or may not be written. To write them, D *E. sirtalis* Say; Jan, is that described by Say as *Coluber parietalis*, but placed as a variety of *sirtalis* by Jan. In the synonymy, the history of each of the various forms is indicated under their respective letters. The use of the letter leaves little or no excuse for duplication, confusion, and excessive length in the name, or for a questionable disregard of the earlier authorities. It may be objected that the original name tells more about the form than would a symbol.

California Academy of Sciences

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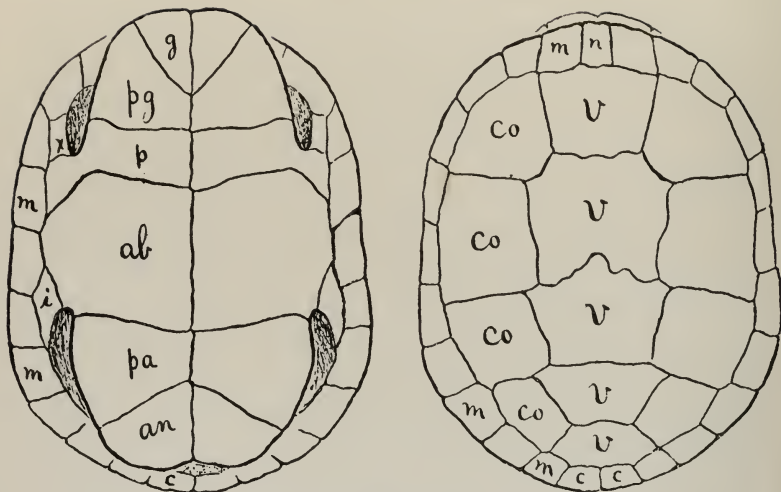
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... is easier to learn or remember than a single one.

Letters are in use among English and French writers to indicate varieties, the custom dating back half a century or more.

The method suggested has been applied in a few of the following genera. There are numerous others in which the present list of species, as in *Sceloporus*, *Geotriton*, and others, is susceptible of a considerable reduction, which will be a necessary consequence of further study.

## TESTUDINATA.



CHRYSEMYS PICTA.

- |                       |                               |
|-----------------------|-------------------------------|
| <i>g.</i> Gular.      | <i>x.</i> Axillary.           |
| <i>pg.</i> Postgular. | <i>i.</i> Inguinal.           |
| <i>p.</i> Pectoral.   | <i>n.</i> Nuchal.             |
| <i>ab.</i> Abdominal. | <i>m-m.</i> Eleven Marginals. |
| <i>pa.</i> Preanal.   | <i>co.</i> Four Costals.      |
| <i>an.</i> Anal.      | <i>c.</i> Caudal.             |
|                       | <i>v-v.</i> Five Vertebrales. |

## SPHARGIDIDAE.

**DERMATOCHELYS** Blainv., 1816, Bull. Soc. Philom., p. 111.

**Testudo coriacea** (Rond.) Linn., 1766, Syst., Ed. 12, 350.

Tropical Atlantic and adjacent waters.

**D. schlegeli**

Tropical Pacific and Indian oceans.

## CHELONIOIDAE.

**THALASSOCHELYS** Fitz., 1836, Ann. Mus. Wien, I, 121.

**Testudo cephalo** Schneid., 1783, Schildkr., 303 (*caouana* auct.).

Tropical Atlantic and adjacent waters.

*Chelonia olivacea* Eschsch., 1829, Zool. Atlas, p. 3, pl. 3.  
Tropical Pacific and Indian oceans.

**COLPOCHELYS** Garman, 1880, Bull. Mus. Comp. Zool., 124.

*C. kempfi* Grmn., l. c. 123.

Northeastern part of the Gulf of Mexico.

**ERETMOCHELYS** Fitz., 1843, Syst. Rept., 30.

*Testudo imbricata* Linn., 1766, Syst., 350.

Tropical Atlantic and adjacent waters.

*Caretta squamata* Krefft, 1871, Austral. Vertebr., 39.

Tropical Pacific and Indian oceans.

**CHELONIA** Brongn., 1805, Essai d'une Class. Rept.

*Testudo mydas* Linn., 1758, Syst., 197.

Tropical Atlantic and adjacent waters.

(B) *Chelonia marmorata* D. & B., 1835, Erp., II, 546.

Atlantic around Ascension Island.

*Chelonia agassizii* Bocourt, 1870, Miss. Sci. Mex., Rept., p. 26,  
pl. 6.

Tropical part of the eastern Pacific.

#### TRIONYCHIDAE.

**AMYDA** Fitz., 1843, Syn. Rept., 30.

*Trionyx muticus* Les., 1827, Mem. Mus., XV, 263.

**PLATYPELTIS** Fitz., 1836, Ann. Wien Mus.

*Testudo ferox* Penn., 1767, Phil. Trans., LVI.

Mississippi valley and eastward.

**ASPIDONECTES** Wagl., 1830, Amph., 134.

*Trionyx spiniferus* Les., 1827, Mem. Mus., XV, 253.

Mississippi river, tributaries and eastward.

*A. asper* Ag., 1857, Contr., I, 405.

Valley of the lower Mississippi.

*A. nuchalis* Ag., l. c., 406.

Tennessee river and eastward.

*A. emoryi* Ag., l. c., 407.

Texas to Mexico.

#### CHELYDROIDAE.

**CHELYDRA** Schweigg., 1814 (read 1809), Prodr. Monogr. Chelon.,  
23.

**Testudo serpentina** Linn., 1754, Mus. Ad. Fridr., 36,—1758  
Syst., 199.

From Canada southward, east of the Rocky mountains.

**MACROCLEMYS** Gray, 1855, Cat. Sh. Rept., 48.

**Chelydra lacertina** Schw., 1814, Chelon., 23.

Florida to Texas.

### CINOSTERNOIDAE.

**AROMOCHELYS** Gray, 1855, Cat. Sh. Rept., 46.

**Testudo odorata** Latr., 1801, Rept., I, 122.

Maine to Texas.

**GONIOCHELYS** Ag., 1857, Contr., I, 423.

**Aromochelys carinata** Gray, 1855, Cat. Sh. Rept., 47.

Florida to Texas.

**G. minor** Ag., 1857, l. c., 424. \*

Alabama to Louisiana.

**THYROSTERNUM** Ag., 1857, Contr., I, 427.

**Testudo pennsylvanica** Gmel., 1788, Syst. Linn., I, 1042.

Virginia to Florida.

**Cinosternum sonoriense** LeC., 1854, Pr. Phil. Ac., 184.

Arizona; Sonora.

**C. integrum** LeC., l. c., 183.

Mexico.

**C. henrici** LeC., l. c., 182.

Arizona.

**C. doubledayi** Gray, 1844, Cat. Tort., 33.

California.

**C. cruentatum** Dum., 1851, Cat. Met., 16.

Mexico; Texas.

**K. punctatum** Gray, 1855, Cat. Sh. Rept., 45 (s. d.).

Eastern Florida.

**K. shavianum** Bell., 1825, Zool. Jour., II, 304.

**PLATYTHYRA** Ag., 1857, Contr., I, 429.

**P. flavescens** Ag., l. c., 430.

California; Texas; Utah.

## EMYDOIDAE.

- PSEUDEMYS** Gray, 1855, Cat. Sh. Rept., 33.  
*Testudo rugosa* Shaw, 1802, Zool., III, 28.  
 New Jersey; North Carolina.
- T. concinna** LeC., 1820, Ann. N. Y. Lyc., 106.  
 North Carolina; Missouri; Louisiana.
- Emys mobiliensis** Holbr., 1842, Herp., I, 71.  
 Florida to Mexico.
- E. hieroglyphica** Holbr., l. c., 111.  
 Gulf States to Tennessee.
- E. ornata** Gray, 1831, Syn. Rept., 30.  
 Mexico.
- Callichelys? pulcherrima?** Gray, 1863, Ann. Mag., 181.  
 Mexico.
- TRACHEMYS** Ag., 1857, Contr., I, 434.  
*Testudo scabra* Linn., 1758, Syst., I, 193.  
 North Carolina to Georgia.
- Emys troostii** Holbr., 1842, Herp., I, 123.  
 Illinois and southward.
- E. elegans** Wied., 1839, Reise N. Amer., I, 176, 213.  
 Dakota to Texas.
- GRAPTEMYS** Ag., 1857, Contr., I, 436.  
*Testudo geographica* Les., Jour. Phil. Ac., I, 85, pl. 5.  
 New York to Texas.
- Emys lesueurii** Gray, 1831, Syn. Rept., 12.
- MALACOCLEMMYS** Gray, 1844, Cat. Tort., 28.  
*Testudo palustris* Gmel., 1788, Syst. Linn., I, 1041.  
 New York to Texas.
- CHRYSEMYS** Gray, 1844, Cat. Tort., 27.  
*Testudo picta* (Herrm.) Schneid., 1783, Schildkr., 348.  
 Nova Scotia to Louisiana.
- C. marginata** Ag., 1857, Contr., I, 439.  
 Michigan to Iowa.
- C. dorsalis** Ag., l. c., 441.  
 Mississippi to Louisiana.
- Emys belli** Gray, 1831, Syn., 12.  
 Illinois to Missouri.
- E. oregonensis** Harl., 1837, Am. Jour. Sc., 382, pl. 31.  
 Oregon.
- ESSEX INST. BULLETIN, VOL. XVI. 1\*

- DEIROCHELYS** Ag., 1857, Contr., I, 441.  
*Testudo reticulata* (Bosc.) Daud., 1805, Rept., II, 144.  
 North Carolina to Louisiana.
- EMYS** Brongn., 1803, Mem. des Sav. Étrang.  
*Testudo melagris* Shaw & Nodder, 1793, Nat. Misc., pl. 144.  
 New England to Wisconsin.
- NANEMYS** Ag., 1857, Contr., I, 442.  
*Testudo guttata* Schn., 17—, Berl. Gesellsch. Nat. Fr., IV, pl. 4.  
 New England to North Carolina.
- CALEMYS** Ag., 1857, Contr., I, 443.  
*Testudo muhlenbergii* Schoepff, 1792, Test., 132.  
 Pennsylvania to New Jersey.
- GLYPTEMYS** Ag., 1857, Contr., I, 443.  
*Testudo insculpta* LeC., 1828-1836, Ann. Lyc. N. Y., III, 112.  
 Nova Scotia to Kentucky.  
*Emys incisa* Boc., 1870, Miss. Sci. Mex., Rept., 11, pls. 1 and 2.  
 Mexico.
- ACTINEMYS** Ag., 1857, l. c., 444.  
*Emys marmorata* B. & G., 1852, Pr. Phil. Ac., 177.  
 California to Puget sound.
- CISTUDO** Flem., 1822, Philos. Zool., 270.  
*Testudo carinata* Linn., 1758, Syst., I, 198.  
 New England; South Carolina; Michigan.
- C. triunguis** Ag., 1857, Contr., I, 445.  
 Georgia; Louisiana.
- C. ornata** Ag., l. c., 445.  
 Kansas; Dakota.
- C. major** Ag., l. c., 445.  
 Alabama; Florida.
- Onychotria mexicana** Gray, 1849, P. Z. S. Lond., 17.  
 Mexico.

## TESTUDINIDAE.

- XEROBATES** Ag., 1857, Contr., I, 446.  
*Testudo carolina* Linn., 1758, Syst., 198.  
 South Carolina; Texas.
- X. berlandieri** Ag., l. c., 447.  
 Texas; Mexico.
- X. agassizi** Cooper, 1863, Pr. Cal. Acad., II, 120.  
 California; Sonora.



RHIZODONTA.

CROCODILIDAE.

**CROCODILUS** Gronow, 1756, Mus. Ichth., II, 74,—1763, Zooph., 1, 10.

**C. acutus** Cuv., 1807, Ann. Mus., X, 55.

South America; West Indies; Florida.

**C. pacificus** Boc., 1870, Miss. Sci. Mex., Rept., 31.

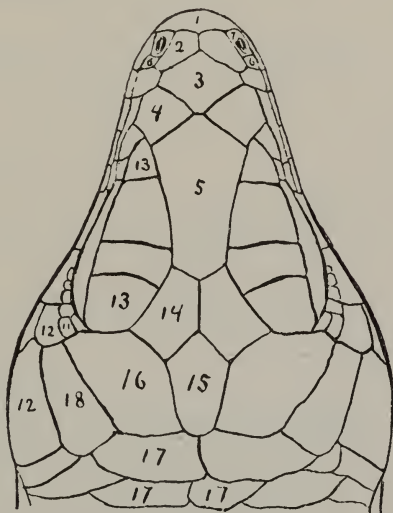
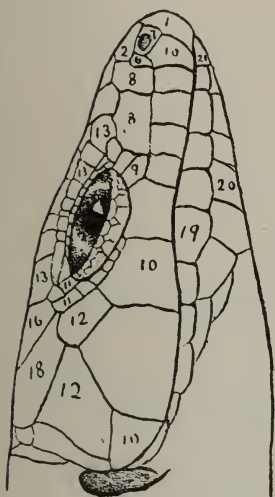
Mexico; Ecuador.

**ALLIGATOR** Cuv., 1807, Ann. Mus., X.

**Crocodilus mississippiensis**, Daud., 1805, Rept., II, 412.

North Carolina to Mexico.

SAURIA.



EUMECES FASCIATUS.

- 1 Rostral.
- 2 Supranasals.
- 3 Internasal.
- 4 Prefrontals.
- 5 Frontal.
- 6 Postnasals.
- 7 Nasals.
- 8 Loreals.
- 9 Preorbitals.
- 10 Labials.

- 11 Postorbitals.
- 12 Temporals.
- 13 Supraciliaries.
- 14 Frontoparietals.
- 15 Interparietal.
- 16 Parietals.
- 17 Occipitals.
- 18 Supratemporals.
- 19 Infralabials.
- 20 Submentals.

## EUBLEPHARIDAE.

**COLEONYX** Gray, 1845, Ann. Mag., XVI, 162.

*Stenodactylus variegatus* Bd., 1858, Pr. Phil. Ac., 254.  
Texas; California.

## GECCONIDAE.

**SPHAERODACTYLUS** Wagl., 1830, Amphib., 143.

*S. notatus* Bd., 1858, Pr. Phil. Ac., 254.  
Key West, Fla.

**PHYLLODACTYLUS** Gray, 1829, Spicil. Zool., 3.

*P. tuberculosus* Wieg., 1835, Act. Acad. Caes. Leop., XVII,  
241, pl. 18, f. 2.

Mexico.

*P. xanti* Cope, 1863, Pr. Phil. Ac., 102.

Cape St. Lucas.

**DIPLODACTYLUS** Gray, 1832, Pr. Zool. Soc., 40.

*D. unctus* Cope, 1863, Pr. Phil. Ac., 102.  
Lower California.

## HELODERMIDAE.

**HELODERMA** Wieg., 1829, Isis, 627.

*H. horridum* Wieg., l. c.  
Mexico.

*H. suspectum* Cope (name only) 1875, Checklist, 47.  
Utah to Mexico.

## TEIIDAE.

**CNEMIDOPHORUS** Wagl., 1830, Syst. Amph., 154.

*Lacerta 6-lineata* Linn., 1766, Syst., 364.  
Southern States to Colorado.

*Ameiva tessellata* Say, 1823, Long's Exp., II, 50.  
Colorado.

(B) *Cnem. gracilis* B. & G., 1852, Pr. Phil. Ac., 128.  
Desert of Colorado.

(C) *C. tigris* B. & G., 1852, Stansbury's Rep., 338.  
Texas to California.

(D) *C. melanostethus* Cope, 1863, Pr. Phil. Ac., 104.  
California.

*C. inornatus* B. & G., 1858, Pr. Phil. Ac., 255.  
New Leon.

- C. octolineatus* Bd., 1858, l. c.  
New Leon.
- C. grahami* B. & G., 1852, Pr. Phil. Ac., 128.  
Texas to California.
- C. maximus* Cope, 1863, Pr. Phil. Ac., 104.  
Lower California.
- C. perplexus* B. & G., 1852, l. c.  
Texas; New Mexico.
- C. mexicanus* Pet., 1869, Mb., Brl. Akad., 62, pl. 34.  
Mexico.
- C. deppii* Wieg., 1834, Herp. Mex., 28.  
Colima.
- C. guttatus* Wieg., l. c., 29.  
Mexico.
- C. hyperethra* Cope, 1863, Pr. Phil. Ac., 103. (?).  
Lower California.

**AMEIVA** Meyer, 1795, Syn. Rept.

- A. undulata* Wieg., 1834, Herp. Mex., 27.  
Mexico.
- Cnemidoph. praesignis* B. & G., 1852, Pr. Phil. Ac., 129.  
Acapulco.

## ZONURIDAE.

**BARISSIA**<sup>c</sup> Gray, 1838, Ann. Mag., 390.

- Gerrhonotus olivaceus* Bd., 1858, Pr. Phil. Ac., 255.  
Mexico; California.

**GERRHONOTUS** Wieg., 1828, Isis, 379.

- Elgaria nobilis* B. & G., 1852, Pr. Phil. Ac., 129.  
Arizona; Sonora.
- G. (Elgaria) kingi* (Bell) Gray, 1838, Ann. Mag., 390.  
Mexico.
- G. deppei* Wieg., 1828, Isis, 379.  
Mexico.
- G. leiocephalus* Wieg., l. c.  
Mexico.
- G. imbricatus* Wieg., l. c.  
Guanahuato.
- G. rudicollis* Wieg., l. c.
- Elgaria principis* B. & G., 1852, Pr. Phil. Ac., 175.  
California.

**G. multcarinatus** Blainv., 1835, Nouv. Ann. du Mus., 289, pl. 25, f. 2.

California.

**Elgaria grandis** B. & G., 1852, l. c., 176.

California; Oregon.

**G. infernalis** Bd., 1858, Pr. Phil. Ac., 255. (?)

Texas.

**Tropidolepis scincicaudus** Skilton, 1849, Am. Jour. Sci., 202.

California.

**XENOSAURUS** Pet., 1861, Mb. Brl. Ak., 453.

**Cubina grandis** Gray, 1856, Ann. Mag., 270.

Vera Cruz.

#### ANGUIDAE.

**OPHEOSAURUS** Daud., 1803, Rept., VII, 346.

**Anguis ventralis** Linn., 1766, Syst., 391.

South Carolina; New Mexico; Illinois.

#### ANNIELLIDAE.

**ANNIELLA** Gray, 1852, Ann. Mag., X, 440.

**A. pulchra** Gray, l. c.

California.

#### XANTUSIIDAE.

**XANTUSIA** Bd., 1858, Pr. Phil. Ac., 255.

**X. vigilis** Bd., l. c.

California.

#### SCINCIDAE.

**OLIGOSOMA** Grd., 1857, Pr. Phil. Ac., 196.

**Scincus lateralis** Say, 1823, Long's Exp., II, 324.

South Carolina; Mexico; Nebraska; Illinois.

**EUMECES** Wieg., 1834, Herp. Mex., 36.

**Lacerta fasciata** Linn., 1758, Syst., I, 209.

Nebraska; Florida; South Carolina; Texas.

**Plestiodon obsoletum** B. & G., 1852, Pr. Phil. Ac., 129.

Kansas; Mexico.

**P. inornatum** Bd., 1858, l. c., 256.

Nebraska.

- P. skiltonianum** B. & G., 1852, Stansbury's Rep., 349.  
California.
- P. septentrionalis** Bd., 1858, Pr. Phil. Ac., 256.  
Texas; Minnesota.
- P. egregius** Bd., l. c.  
Florida.
- P. tetragrammus** Bd., l. c.  
Lower Rio Grande.
- P. leptogrammus** Bd., l. c.  
Nebraska.
- P. multivirgatus** Hallow., 1857, Pr. Phil. Ac., 215.  
Texas; Nebraska.
- P. anthracinus** Bd., 1849, Jour. Phil. Ac., I, 294.  
Pennsylvania; Mississippi.
- P. longirostris** Cope, 1861, Pr. Phil. Ac., 313.  
Bermudas.
- Mabouia brevirostris** Gthr., 1860, Pr. Z. S. Lond., 316.  
Oaxaca.
- Euprepes lynxæ** Wieg., 1834, Herp. Mex., 36.  
Guanaxuato.
- Lamprosaurus guttulatus** Hallow., 1853, Sitgreaves Rep., 113.  
Arizona.
- Eumeces onocrepis** Cope, 1869, Rep. Peab. Ac., 82. (?)
- E. hallowelli** Boc., 1879, Miss. Sci. Mex., Rept., 435, pl. 22 e, f. 7.  
California.
- E. obtusirostris** Boc., 1881, l. c., 441.      \*
- (P)**Diploglossus millepunctatus** O'Shaug., 1874, Ann. Mag.,  
301.  
N. W. N. America.

## IGUANIDAE.

- HOLBROOKIA** Grd., 1850-51, Pr. A. A. A. S., 201.
- H. maculata** Grd., l. c.  
Texas; Dakota; Sonora.
- (B) **H. approximans** Bd., 1858, Pr. Phil. Ac., 253.  
Tamaulipas.
- (C) **H. propinqua** B. & G., 1852, Pr. Phil. Ac., 126.  
Texas.
- (D) **H. affinis** B. & G., l. c., 125.  
Sonora.
- Cophosaurus texanus** Trosch., 1850 (1852), Arch. f. Natg.  
389, Tab. VI.  
Texas.

- H. elegans* Boc., 1874, Miss. Sci. Mex., Rept., 164, pl. 17 *bis*, f. 8.  
Mazatlan.
- H. lacerata* Cope ?  
Texas.
- CALLISAURUS** Blainv., 1835, Nouv. Ann. Mus., 286.  
*C. draconoides* Blainv., l. c., 286, pl. 24, f. 2.  
(B) *Homalosaurus ventralis* Hallow., 1854, Sitgreaves  
Rep., 117.
- UMA** Bd., 1858, Pr. Phil. Ac., 253.  
*U. notata* Bd., l. c.  
Arizona.
- SAUROMALUS** Dum., 1856, Arch. Mus., 535.  
*S. ater* Dum., l. c., 536.  
California to Arizona.
- CROTAPHYTUS** Holbr., 1842, Herp., II, 79.  
*Agama collaris* Say, 1823, Long's Exp., II, 252.  
Kansas to New Mexico.
- C. wislizenii* B. & G., 1852, Stansb. Rep., 340.  
California to Texas.
- C. reticulatus* Bd., 1858, Pr. Phil. Ac., 253.  
Texas.
- C. copii* Yarr., 1882, Pr. U. S. Nat. Mus., 441.  
California.
- DIPSOSAURUS** Hallow., 1854, Pr. Phil. Ac., VII.  
*Crotaphytus dorsalis* B. & G., 1852, Pr. Phil. Ac., 126.  
Colorado; California; Sonora.
- UTA** B. & G., 1852, Stansb. Rep., 344.  
*U. ornata* B. & G., 1852, Pr. Phil. Ac., 126.  
Colorado; Texas; Sonora.
- U. stansburiana* B. & G., 1852, Stansb. Rep., 345.  
Utah; Nevada.
- U. schottii* Bd., 1858, Pr. Phil. Ac., 253.  
California.
- U. thalassina* Cope, 1863, Pr. Phil. Ac., 104. (?).  
Lower California.
- U. nigricauda* Cope, (?).  
Lower California.
- U. graciosa* Hallow., 1854, Pr. Phil. Ac., 92.  
California.

**U. elegans** Yarr.

La Paz, Cal.

**Phymatolepis bicarinatus** Dum., 1856, Arch. Mus., VIII, 549.  
Puebla, Mexico.

**Phymatolepis (Uta) irregularis** Fisch., 1881, Abh. Nat. Ver.  
Brem., VII, 232.  
Mexico.

**SCELOPORUS** Wieg., 1828, Isis, 369.

**Agama torquata** Peale & Green, Jour. Phil. Ac., VI, 231.  
Texas; Mexico.

**Stellio undulatus** (Bosc.) Latr., 1801, Rept., II, 40.  
Pennsylvania to Florida and California.

(B) **S. occidentalis** B. & G., 1852, Pr. Phil. Ac., 175.  
California; Washington Territory.

(C) **S. thayeri** B. & G., l. c., 127.  
Texas to Sonora.

**S. scalaris** Wieg., 1828, Isis, 369.  
Mexico; Sonora.

**S. couchii** Bd., 1858, Pr. Phil. Ac., 254.  
New Leon.

**S. ornatus** Bd., 1859, Mex. Bound., Rept., 5.  
Sonora.

**S. poinsetti** B. & G., 1852, Pr. Phil. Ac., 126.  
Texas; Sonora.

**S. garmani** Blgr., 1882, Pr. Z. S. Lond., 761, pl. 56.  
Southern Dakota; Nebraska.

**S. marmoratus** Hallow., 1852, Pr. Phil. Ac., 178.  
Southern California.

**S. biseriatus** Hallow., 1859, P. R. R. Rep., X, Williamson, 6.  
Mexico.

**S. consobrinus** B. & G., 1854, Marcy's Exp., 208.  
Utah; California.

(B) **S. gratiosus** B. & G., 1852, Pr. Phil. Ac., 69.  
Utah.

**S. Clarkii** B & G., 1852, l. c., 127.  
Arizona; Sonora.

(B) **S. zosteromus** Cope, 1863, Pr. Phil. Ac., 105.  
Cape St. Lucas.

**S. horridus** Wieg., 1834, Herp. Mex., 50.  
Vera Cruz; Colima.

**S. formosus** Wieg., l. c.  
Colima.

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- S. microlepidotus** Wieg., l. c., 51.  
Puebla; Colima.
- S. floridanus** Bd., 1858, Pr. Phil. Ac., 254.  
Florida.
- S. spinosus** Wieg., 1828, Isis, 369.  
Mexico.
- S. dugesi** Boc., 1874, Miss. Sci. Mex., 188, p. 18, f. 7.  
Colima.
- S. jarrovi** (Cope) Yarr., 1875, Wheeler's Rep., V, 569.  
Arizona.
- S. smaragdinus** Yarr., l. c., 572.  
Utah; Nevada.
- S. tristichus** Yarr., l. c.  
Taos, New Mexico.
- S. rufidorsum** Yarr., 1882, Pr. Nat. Mus., 442.  
La Paz, California.
- S. utiformis** Cope, 1864, Pr. Phil. Ac., 177.  
Colima, Mexico.
- S. gracilis** B. & G., 1852, Pr. Phil. Ac., 75.  
California.

**PHRYNOSOMA** Wieg., 1828, Isis, 367.

- Lacerta orbicularis** Linn., 1758, Syst., I, 206.  
Mexico.
- Agama douglassi** Bell, 1829, Trans. Linn. Soc., XVI, 105, pl. 10.  
Dakota; Arizona.
- (B) **Tapaya ornatissima** Grd., 1858, Wilkes Exp., Rept., 396.  
Arizona; Mexico.
- (C) **P. pygmaea** Yarr., 1882, Pr. U. S. Mus., 443.  
Oregon.
- Tapaya hernandesi** Grd., 1858, Wilkes Exp., 395.  
Mexico.
- P. regale** Grd., l. c., 406.  
Arizona; New Mexico.
- P. modestum** Grd., 1852, Stansb. Rep., 365.  
Texas; Arizona; New Mexico.
- P. platyrhinum** Grd., l. c., 361.  
Utah; Arizona; Nevada.
- Agama (Phrynos.) coronata** Blainv., 1835, Nouv. Ann., 284,  
pl. 25, f. 1.  
California.
- P. blainvillei** Gray, 1839, Rept. Beechey's Voy., 96, pl. 29, f. 1.  
California; Arizona.

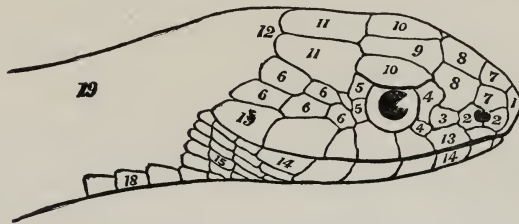
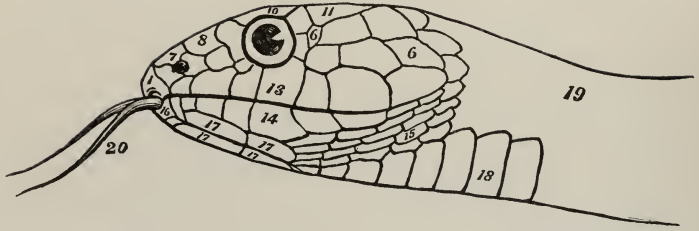


- Agama cornuta** Harl., 1825, Jour. Phil. Ac., IV, 299, pl. 20.  
Texas; Mexico;
- Anota mc'calli** Hallow., 1852, Pr. Phil. Ac., 182.  
Arizona; Nevada.
- Tapaya boucardi** Boc., 1874, Miss. Sci. Mex., 225, pl. xi, f. 4.  
Mexico plateau.
- P. braconnieri** Boc., l. c., 233, pl. 7.  
Oaxaca.
- P. taurus** Duges, 1869, Cat. Vert. Mex.  
Mexico.
- P. planiceps** Hallow., 1852, Pr. Phil. Ac., 178.  
Western Texas.
- P. asio** Cope, Pr. Phil. Ac., 178.  
California; Mexico.
- CYCLURA** Harl., 1825, Jour. Phil. Ac., IV, 242.
- Lacerta acanthura** Shaw, 1802, Zool., III, 216.  
Mexico; California.
- C. teres** Harl., l. c., 246.  
Vera Cruz; California.
- C. pectinata** Wieg., 1834, Herp. Mex., 42, pl. 2.  
Colima.
- Ctenosaura cycluroides** Wieg., 1828, Isis, 371.
- C. (Ctenosaura) hemilopha** Cope, 1863, Pr. Phil. Ac., 105.  
Cape St. Lucas.
- ANOLIS** Daud., 1802, Rept., IV, 50.
- Lacerta principalis** Linn., 1754, Mus. Ad., — 1758, Syst., I, 201.  
North Carolina to Texas.
- A. sericeus** Hallow., 1856, Pr. Phil. Ac., 227.  
Jalapa, Mexico.
- A. cooperi** Bd., 1858, Pr. Phil. Ac., 254.  
California.
- A. tropidonotus** Pet., 1863, Mb. Brl. Ak., 135.  
Orizaba.
- A. cymbos** Cope, 1864, Pr. Phil. Ac., 173.  
Vera Cruz.

## AMPHISBAENIDAE.

- CHIROTES** Cuv., 1817, R. An., Ed. 1, 57.
- Bipes canaliculatus** Bounat., 1789, Erpetol., 68.  
California; Mexico.
- LEPIDOSTERNON** Wagler, 1824, Spix Serp. Brazil, 70.
- L. floridanum** Baird, 1858, Pr. Phil. Ac., 225.  
Florida.

## OPHIDIA.



## COLUBER CONSTRICTOR.

- |    |                                 |    |               |
|----|---------------------------------|----|---------------|
| 1  | Rostral.                        | 11 | Parietals.    |
| 2  | Nasals.                         | 12 | Occipitals.   |
| 3  | Loreal.                         | 13 | Labials.      |
| 4  | Preoculars or Anteorbitals.     | 14 | Infralabials. |
| 5  | Postoculars or Postorbitals.    | 15 | Gulars.       |
| 6  | Temporals.                      | 16 | Mental.       |
| 7  | Internasals.                    | 17 | Submentals.   |
| 8  | Prefrontals.                    | 18 | Ventrals.     |
| 9  | Frontal.                        | 19 | Dorsals.      |
| 10 | Supraciliaries or Supraoculars. | 20 | Tongue.       |

## SCOLECOPHIDIA.

## TYPHLOPIDAE.

## TYPHLOPINAE.

**TYPHLOPS** Schneid., 1801, Amph., II, 339.

**Ophthalmidion longissimum** D. & B., 1844, Erp., VI, 263.

Texas; "North America."

**T. perditus** Pet., 1869, Mb. Brl. Ak., 435.

Orizaba.

**T. basimaculatus** Cope, 1866, Pr. Phil. Ac., 320.

Cordova; Orizaba.

**T. emunctus** Garman, 1883, Mem. Mus. Comp. Zool., Rept., 3.

Central America.

## STENOSTOMINAE.

**ANOMALEPIS** Jan, 1861, Arch. Zool., 185.

**A. mexicanus** Jan, l. c.

Mexico.

**STENOSTOMA** Wagl., 1824, Spix Serp. Braz., 68.

**Rena dulcis** B. & G., 1853, Serp., 142.

Texas.

**R. humilis** B. & G., l. c., 143.

Vallieetas, California.

**S. rubellum** Grmn., 1883, Mem. M. C. Z., Rept., 130.

Uvalde, Texas.

**S. tenuiculum** Grmn., l. c., 5.

San Luis Potosi, Mexico.

**S. myopicum** Grmn., l. c., 6.

Tampico, Mexico.

**SIAGONODON** Pet., 1881, Gesellsch., 71.

**S. dugesi** Boc., 1882, Miss. Sci. Mex., Rept., 507, pl. 29, f. 9.

Colima.

## ONYCHOPHIDIA.

## ERYCIDAE.

**CHARINA** Gray, 1849, Cat. Snakes, 113.

**Tortrix bottae** Blainv., 1835, Nouv. Ann. Mus., 289, pl. 26, f. 1.

California to Mexico.

- Wenona plumbea* B. & G., 1853, Serp., 154.  
California to Puget Sound.
- Lichanura trivirgata* Cope, 1861, Pr. Phil. Ac., 304.  
Lower California; Mexico.
- (B) *L. myriolepis* Cope, 1868, Pr. Phil. Ac., 2.

## BOIDAE.

- BOA** Linn., 1758, Syst., I, 214.
- B. imperator** Daud., 1802, Rept., V, 150.  
Central America; Mexico.
- B. mexicana** Rapp.  
Mexico.
- CHILABOTHRUS** D. & B., 1844, Erp., VI, 562.
- Boa inornata** Reinh., 1843, Dansk. Vid. Selsk., pl. 21-23.  
West Indies; Central America; Mexico.

## ACACOPHIDIA.

## COLUBROIDEA.

## DIPSADIDAE.

- LEPTOGNATHUS** Dum., 1852, Mem. Acad., XXIII, 467.
- Tropidodipsas fasciata** Gthr., 1858, Cat. 181.  
Mexico.
- L. dumerili** Jan, 1863, Sist., 101.  
Mexico.
- Coluber nebulatus** Linn., 1754, Mus. Ad., 32, pl. 24, f. 1.  
Brazil to Mexico; West Indies (Gthr.).
- L. dimidiatus** Gthr., 1872, Ann. Mag., 31.  
Mexico.
- L. brevis** Dum., 1852, Mem. Acad., 23, p. 467.  
Mexico.
- SIBON** Fitz., 1826, Neue Class., 60.
- Dipsas biscutata** D. & B., 1854, Erp., VII, 1153.  
Central America to Mexico.
- (B) **Dipsas biscutata** var. *latifascia* Pet., 1869, Mb. Brl. Ak., 877.  
Pueblo, Mexico.
- Coluber annulatus** Linn., 1754, Mus. Ad. Fridr., pl. 8, f. 2.  
Mexico to Brazil.
- (B) **Dipsas septentrionalis** Kenn., 1859, Mex. Bound., II, 16, pl. viii, f. 1.  
Texas; Arizona; Mexico.

*Leptodeira torquata* Gthr., 1860, Ann. Mag.  
Nicaragua.

(B) *L. pacifica* Cope, 1868, Pr. Phil. Ac., 310.  
Mazatlan, Mexico.

(C) *L. personata* Cope, l. c.  
Mazatlan.

*L. discolor* Gthr., 1860, Pr. Zool. Soc., 317.  
Oaxaca.

## DENDROPHIDAE.

**LEPTOPHIS** Bell, 1825, Zool. Jour., 329.

*L. mexicanus* D. & B., 1854, Erp., VII, 536.  
Mexico.

## NATRICIDAE.

**TROPIDONOTUS** Kuhl, 1826, Isis, 205.

(**CHILOPOMA.**)

*C. rufipunctatum* Yarr., 1875, Wheeler's Exp., V, 543, pl. xx,  
f. 1.

Southern Arizona.

(**EUTAENIA.**)

*Coluber saurita* Linn., 1766, Syst., I, 385.  
Mississippi valley to Atlantic.

(B) *Eutaenia faireyi* B. & G., 1853, Serp., 25.  
Minnesota and Wisconsin southward.

(C) *E. Sackenii* Kenn., 1859, Pr. Phil. Ac., 98.  
Florida.

(D) *Coluber proximus* Say, 1823, Long's Exp., I, 187.  
Arkansas and Texas to Mexico.

(E) *E. radix* B. & G., 1853, Serp., 34.  
Wisconsin; Illinois.

*Coluber sirtalis* Linn., 1758, Syst., I, 222.  
Nova Scotia to Mississippi valley.

(B) *C. ordinatus* Linn., 1766, Syst., I, 379.  
Coast from Nova Scotia to Georgia and Alabama.

(C) *E. marciana* B. & G., 1853, Serp., 36.  
Kansas to Texas and Mexico.

(D) *Coluber parietalis* Say, 1823, Long's Exp., I, 186.  
Missouri basin to Utah.

(E) *E. vagrans* B. & G., 1853, Serp., 35.  
Rocky mountains to Sierras; Sonora.

(F) *Trop. collaris* Jan, 1863, Sist., 69.  
Southern Mexico; Panama.

- (G) *E. leptocephala* B. & G., 1853, Serp., 29.  
Oregon.
- (H) *Coluber infernalis* Blainv., 1835, Nouv. Ann. Mus.,  
291, pl. 26, f. 3.  
California to Mexico.
- (I) *E. atrata* Kenn., 1860, P. R. R. Rep., XII, 296.  
California.
- (J) *Trop. quadriserialis* Fisch., 1879, Verh. Nat. Ver.  
Hamb., 82.  
Mazatlan.
- Atomarchus multimaculatus* Cope, 1883, Am. Nat., 1300.  
New Mexico.
- (NERODIA.)
- Coluber sipedon* Linn., 1758, Syst., I, 219.  
Mississippi valley to Maine.
- (B) *C. fasciatus* Linn., 1766, Syst., I, 378.  
Southern States.
- (C) *C. erythrogaster* Holbr., 1838, Herp., II, 91, pl. 19.  
Southeastern States.
- (D) *Trop. rhombifer* B. & G., 1852, Pr. Phil. Ac., 177.  
Mississippi valley to Wisconsin.
- Trop. taxispilotes* Holbr., 1842, Herp., IV, 35, pl. 8.  
Southeastern States.
- T. cyclopion* D. & B., 1854, Erp., VII, 576.  
Ohio to Florida.
- Nerodia compressicauda* Kenn., 1860, Pr. Phil. Ac., 335.  
Florida.
- (REGINA.)
- Coluber leberis* Linn., 1758, Syst., I, 216.  
Michigan to Texas.
- (B) *C. rigidus* Say, 1825, Jour. Phil. Ac., 239.  
New York, southward and westward.
- (C) *Regina clarkii* B. & G., 1853, Serp., 48.  
Texas to Mexico.
- (D) *R. grahamii* B. & G., l. c., 47.  
Michigan to Texas.
- (E) *R. valida* Kenn., 1860, Pr. Phil. Ac., 334.  
California to Mexico.
- R. kirtlandi* Kenn., 1856, Pr. Phil. Ac., 95.  
Illinois to Ohio.
- STORERIA B. & G., 1853, Serp., 135.
- Tropidoclonium storerioides* Cope, 1865, Pr. Phil. Ac., 190.  
Mexico.

**Tropidonotus occipitomaculatus** Storer, 1839, Rept. Mass. 230.

Mississippi valley and eastward.

**Trop. dekayi** Holbr., 1842, Herp., IV, 53, pl. 14.

Maine to Mexico.

**Adelophis copei** Cope, 1879, Pr. Am. Phil. Soc., 265.

Guadalaxara.

**Microps lineatus** Hallow., 1856, Pr. Phil. Ac., 241.

Texas to Kansas.

**HELICOPS** Wagler, 1830, Amph., 170.

**H. alleni** Grmn., 1874, Pr. B. N. H. Soc., 92.

Florida.

**HYDROPS** Wagl., 1830, Amph., 170.

**Coluber erythrogrammus** Latr., 1802, Rept., IV, 141.

Illinois and Virginia southward.

**C. abacurus** Holbr., 1836, Herp., I, 119, pl. 23.

North Carolina to Texas.

**Homalopsis quinquevittatus** D. & B., 1854, Erp., VII, 975.

Mexico; Central America.

**Calopisma septemvittatum** Fisch., 1879, Verh. Nat. Ver. Hamb., 84.

Mexico.

### COLUBRIDAE.

**SALVADORA** B. & G., 1853, Serp., 104. (Not preoccupied among animals.)

**S. grahamii** B. & G., l. c.

California to Mexico; Utah to Texas.

(B) **S. bairdii** Jan, 1861, Icon., livr. 1, pl. 3, f. 2.

Mexico.

(C) **Phymothya hexalepis** Cope, 1866, Pr. Phil. Ac., 305.

Arizona.

**Phym. decurtata** Cope, 1868, Pr. Phil. Ac., 310.

Lower California.

**CYCLOPHIS** Gthr., 1858, Cat. Serp., 119.

**Coluber vernalis** (De K.) Harl., 1827, Jour. Phil. Ac., 361.

Nova Scotia to Rocky Mountains.

**PHYLLOPHILOPHIS** Grmn., 1883, Mem. M. C. Z., Rept., 40, 146.

Maryland to Mexico.

**Coluber aestivus** Linn., 1766, Syst., I, 387.

**COLUBER** Linn., 1748, Syst., p. 34, —1758, Syst., I, 216, —1766, Syst., I, 375 (Part.).

(**BASCANIUM.**)

**Coluber constrictor** Linn., 1758, Syst., I, 216, —1766, Syst., I, 385.

Nova Scotia to Texas.

(**B**) **C. flaviventris** Say, 1823, Long's Exp., I, 185.  
Mississippi valley west to Pacific.

**Coryphodon mentovarius** D. & B., 1854, Erp., VII, 187.  
Mexico.

(**MASTICOPHIS.**)

**Coluber flagellum** Shaw, 1802, Zool., III, 475.

(**B**) **C. testaceus** Say, 1823, Long's Exp., 248.  
Dakota to Texas and the Pacific.

(**C**) **Drymobius aurigulus** Cope, 1861, Pr. Phil. Ac., 301.  
Lower California.

**Zamenis mexicanus** D. & B., 1854, Erp., VII, 695.  
Mexico.

**Masticophis spinalis** Pet., 1866, Mb. Brl. Ak., 91.  
Mexico.

**Leptophis taeniata** Hallow., 1852, Pr. Phil. Ac., 181.  
Plains to the Pacific.

(**B**) **Masticophis bilineatus** Jan, Sist., 40.  
Mexico.

**SPILOTES** Wagler, 1830, Amph., 179.

(**GEORGIA.**)

**Coluber couperi** Holbr., 1842, Herp., III, 75, pl. 16.  
Gulf States.

**C. obsoletus** Holbr., l. c., 61, pl. 12.  
Florida to Texas.

(**SPILOTES.**)

**Coluber corais** (Cuv.) Boie., 1827, Isis, 537.  
Brazil to Mexico.

**C. variabilis** Max., 1825, Beitr., 271.  
Mexico to Brazil.

(**B**) **Spilot. pullatus** var. **auribundus** Cope, 1861, Pr. Phil. Ac., 300.  
Mexico.

**S. melanurus** D. & B., 1854, Erp., VII, 224.  
Mexico.

**S. poecilonotus** Gthr., 1858, Cat. Serp., 100.  
Mexico.



**PITYOPHIS** Holbr., 1842, Herp., IV, 7.**Coluber melanoleucus** Daud., 1803, Rept., VI, 409.

East of the Mississippi, Ohio and Pennsylvania southward.

**C. catenifer** Blainv., 1835, Nouv. Ann. Mus., IV, 290, pl. 26, f. 2.  
Oregon to Mexico.(B) **C. sayi** Schleg., 1837, Ess., II, 157.

Rocky Mountains to Illinois.

(C) **P. mexicanus** D. & B., 1854, Erp., VII, 236.

Mexico.

(D) **Elaphis deppei** D. & B., 1854, Erp., VII, 268.

Arizona to Mexico.

(E) **Churchillia bellona** B. & G., 1852, Stansb. Exp., 350.

Utah basin.

(F) **C. vertebralis** Blainv., 1835, l. c., 293, pl. 27, f. 2.

Lower California.

**ELAPHIS** Aldrov., 1640, Serp. Drac., 267, —1765, reprint; Bonap., 1831, Saggio.**(SCOTOPHIS.)****Coluber obsoletus** Say, 1823, Long's Exp., I, 140.

Mississippi valley.

(B) **C. alleghaniensis** Holbr., 1842, III, 219.

New England to Alabama.

(C) **S. lindheimeri** B. & G., 1853, Serp., 74.

Illinois to Texas.

(D) **C. bairdi** Yarr., 1880, Bull. U. S. Mus., 41.

Fort Davis, Texas.

(E) **S. confinis** B. & G., 1853, Serp., 76.**C. guttatus** Linn., 1766, Syst., I, 385.

Virginia to Louisiana.

(B) **S. vulpinus** B. & G., 1853, Serp., 75.

Massachusetts to Nebraska.

**C. quadrivittatus** Holbr., l. c., 80, pl. 20.**DROMICUS** Bibr., 1843, Rept. Cuba, Sagra, 221.**D. laureatus** Gthr., 1868, Ann. Mag., 419.

City of Mexico.

**D. flavilatus** Cope, 1871, Pr. Phil. Ac.

Florida to North Carolina.

**Herpetodryas margaritiferus** Schleg., 1837, Ess., I, 151, II, 184.

Mexico; Central America.

**D. putnamii** Jan, 1863, Sist., 67.

Southern Mexico.

## CORONELLIDAE.

**TACHYMENIS** Wieg., 1834, Act. Acad. Caes. Leop., 252.

**Tomodon lineatum** D. & B., 1854, Erp., VII, 936.

Mexico.

**Taeniophis imperialis** B. & G., 1855, Gilliss' Exp., II, 215.

Texas and Mexico.

**Coniophanes lateritia** Cope, 1861, Pr. Phil. Ac., 524.

Guadalaxara.

**Coniophanes proterops** Cope, 1860, Pr. Phil. Ac., 249.

Mexico; New Granada.

**Coronella fissidens** Gthr., 1858, Cat. Serp., 36.

Mexico.

**Coronella bipunctata** Gthr., l. c.

Mexico.

**T. melanocephala** Pet., 1869, Mb. Brl. Ak., 876.

Mexico.

**ERYTHROLAMPRUS** Boie, 1826, Isis, 981.

**E. guentheri** Grmn., 1883, Mem. M. C. Z., Rept., 63.

=**E. venustissimus** var. **D** Gthr., 1858, Cat., 48.

"Mexico."

**OPHIBOLUS** B. & G., 1853, Serp., 82.

**Coluber doliatus** Linn., 1766, Syst., 1, 379.

Southeastern States.

**Osceola elapsoidea** B. & G., 1853, Serp., 133.

Southern States east of Mississippi river.

**C. triangulus** Boie, 1827, Isis, 537.

Mississippi valley eastward to Canada.

(**B**) **C. calligaster** Harl., 1835, Med. Res., 122.

Northern Mississippi valley.

(**C**) **O. triang.** var. **mexicanus** Grmn., 1883, Mem. M. C. Z., Rept., 66.

San Luis Potosi.

(**D**) **O. doliatus** B. & G., 1853, Serp., 89.

Nebraska and southward.

(**E**) **O. gentilis** B. & G., l. c., 90.

Arkansas to Utah.

(**F**) **C. (Zacholus) zonatus** Blainv., 1835, Ann. Mus., IV, 293.

California.

(**G**) **Lampropeltis annulata** Kenn., 1860, Pr. Phil. Ac., 329.

Mexico.

- (H) *Coronella rhombomaculata* Holbr., 1842, *Herp.*, III, 103, pl. 23.

Southeastern U. S.

- Coluber getulus* Linn., 1766, *Syst.*, I, 382.

Southern States to Texas.

- (B) *Coronella sayi* Holbr., 1842, *Herp.*, III, 99, pl. 22.

Mississippi valley, Illinois to Texas.

- (C) *O. boylii* B. & G., 1853, l. c., 82.

California to Mexico.

- (D) *O. splendidus* B. & G., l. c., 83.

Arizona and southern California to Mexico.

- (E) *O. pyrrhomelanus* Cope, 1866, *Pr. Phil. Ac.*, 305.

Arizona; Sonora.

**LIOPHIS** Wagl., 1830, *Amph.*, 187.

- Pliocercus elapoides* Cope, 1860, *Pr. Phil. Ac.*, 253.

Mexico.

**DIADOPHIS** B. & G., 1853, *Serp.*, 112.

- Enicognathus annulatus* D. & B., 1854, *Erp.*, VII, 335, pl. 80,

f. 1-3.

Mexico.

- Coronella decorata* Gthr., 1858, *Cat. Serp.*, 35.

Southern Mexico.

- Rhadinea fulvivitta* Cope, 1875, *Jour. Phil. Ac.*, 139.

Southern Mexico.

- Coluber punctatus* Linn., 1766, *Syst.*, I, 376.

Southern and Eastern States to Nova Scotia.

- (B) *D. arnyi* Kenn., 1859, *Pr. Phil. Ac.*, 99.

Illinois to Arkansas.

- (C) *D. docilis* B. & G., 1853, *Serp.*, 114.

Texas to Mexico.

- (D) *D. amabilis* B. & G., l. c., 113.

Arizona to California.

- D. regalis* B. & G., l. c., 115.

Mexico.

**RHINOCHEILUS** B. & G., 1853, *Serp.*, 120.

- R. lecontei* B. & G., l. c., 120, 161.

Texas to California.

- (B) *R. lecontei* var. *tesselatus* Grmn., 1883, *Mem. M. C.*

Z., *Rept.*, 74.

Mexico.

**HETERODON** (Pal. de Beauv., 1799) Latr., 1802, *Rept.*, IV, 32.

- H. platyrhinus* Latr., l. c., 32, pl. 28, f. 1-3.

Eastern, Middle and Southern States.

- (B) *H. niger* Troost, 1836, Ann. N. Y. Lyc., 186.  
Southern States east of Mississippi river.
- Coluber simus* Linn., 1766, Syst., I, 375.  
Mississippi valley to the Atlantic.
- (B) *H. nasicus* B & G., 1852, Stansb. Exp., 352.  
California to Texas and Nebraska.
- (C) *H. kennerlyi* Kenn., 1860, Pr. Phil. Ac., 336.  
Sonora.
- CEMOPHORA** Cope, 1860, Pr. Phil. Ac., 244.
- Coluber coccineus* Blumenb., 1788, Licht. & Voigt. Mag.,  
pl. V.  
Southern States east of Texas.
- (B) *C. copei* Jan, 1863, Sist., 45.  
Tennessee.
- XENODON** Boie, 1827, Isis, 541.
- X. bertholdi* Jan, 1863, Arch. Zool., II, 108.  
Mexico.
- HYP SIGLENA** Cope, 1860, Pr. Phil. Ac., 246.
- H. ochrorhynchus* Cope, l. c.  
Lower California.
- (B) *H. chlorophaea* Cope, l. c.  
Arizona to Sonora.

## CALAMARIDAE.

- FICIMIA** Gray, 1849, Cat. Serp., 80.
- Toluca frontalis* Cope, 1864, Pr. Phil. Ac., 167.  
Colima.
- Gyalopion canum* Cope, 1860, Pr. Phil. Ac., 243, 310.  
Arizona.
- Conopsis nasus* Gthr., 1858, Cat., 6.  
California.
- Toluca lineata* (Kenn.) Bd., 1859, Mex. Bound., II, Rept., 23,  
pl. 21, f. 2.  
Mexico.
- Oxyrhina maculata* Jan, 1862, Arch. Zool., II, 54, 61.  
Mexico.
- Amblymetopon variegatum* Gthr., 1858, Cat. Serp., 7.  
Mexico.
- F. olivacea* Gray, 1849, Cat. Serp., 80.  
Mexico.

**CHEILORHINA** Jan., 1862, Arch. Zool., II, 57.

**C. villarsii** Jan., l. c.  
Western Mexico.

**STENORHINA** D. & B., 1854, Erp., VII, 865.

**S. freminvillei** D. & B., l. c., 868.  
Central America and Mexico.

**Microphis quinquelineatus** Hallow., 1854, Pr. Phil. Ac., 97.  
Mexico.

**TANTILLA** B. & G., 1853, Serp., 131.

**T. gracilis** B. & G., l. c., 132, 161.  
Texas.

(B) **T. hallowelli** Cope, 1860, Pr. Phil. Ac., 77.  
Kansas.

(C) **T. calamarina** Cope, 1866, Pr. Phil. Ac., 320.  
Guadalajara.

**T. nigriceps** Kenn., 1860, Pr. Phil. Ac., 328.  
Texas; New Mexico.

**T. coronata** B. & G., 1853, Serp., 131.  
Gulf States.

(B) **Homalocranion wagneri** Jan, 1862, Arch. Zool., II,  
50.  
Florida.

**Coluber planiceps** Blainv., 1835, Ann. Mus., IX, 294, pl. 27, f. 3.  
California.

**ELAPOMORPHUS** (Wieg.) Fitz., 1843, Syst., 25.

**E. mexicanus** Gthr., 1862, Ann. Mag., pl. 9, f. 1 (Extr., p. 6).  
Mexico.

**CONTIA** B. & G., 1853, Serp., 110.

(SONORA.)

**S. semiannulata** B. & G., 1853, Serp., 110.  
Sonora.

**Rhinostoma occipitale** Hallow., 1854, Pr. Phil. Ac., 95.  
Arizona.

(B) **Lamprosoma annulatum** Bd., 1859, Mex. Bound.,  
II, 22.  
Arizona.

**C. isozona** Cope, 1866, Pr. Phil. Ac., 304.  
Arizona to Utah.

(PROCINURA.)

**P. aemula** Cope, 1871, Pr. Phil. Ac., 223. (?Position).  
Mexican plateau.

**(CONTIA.)**

**C. mitis** B. & G., 1853, Serp., 110.  
California.

**Lamprosoma episcopum** Kenn., 1859, Mex. Bound., II, Rept.,  
22, pl. 8, f. 1.  
Texas.

**LODIA** B & G., 1853, Serp., 116.

**Calamaria tenuis** B. & G., 1852, Pr. Phil. Ac., 176.  
Oregon and Washington Territory.

**NINIA** B. & G., Serp., 49.

**Chersodromus liebmanni** Reinh., 1860, Vid. Medd. Kjobenh.,  
35, pl. IV, f. 10, 11.  
Vera Cruz; Mexico.

**Streptophorus sebae** D. & B., 1854, Erp., VII, 515.  
Mexico.

**S. sebae** var. **collaris** Jan, 1865, Icon., livr. 12, pl. 3, f. 6.  
Mexico.

**Elapoides sieboldi** Jan, 1862, Arch. Zool., II, 21.  
Mexico.

**N. dimidiata** B. & G., 1853, Serp., 49.  
Mexico.

**VIRGINIA** B. & G., 1853, Serp., 127.

**Coluber striatulus** Linn., 1766, Syst., I, 375.  
Virginia to Texas.

**V. inornata** Grmn., 1883, Mem. M. C. Z., Rept., 97.  
Texas.

**V. elegans** Kenn., 1859, Pr. Phil. Ac., 99.  
Southern Illinois.

**V. valeriae** B. & G., l. c., 127.  
Maryland to Georgia and Illinois.

**(B) Carphophis harperti** D. & B., 1854, Erp., VII, 135.  
Georgia to Texas.

**CARPHOPHIS** Gerv., 1843, D'Orb. Dict. N. Hist., III, 191.

**Chilomeniscus stramineus** Cope, 1861, Pr. Phil. Ac., 33.  
Lower California.

**Chilom. cinctus** Cope, l. c., 303.  
Guaymas.

**Celuta helenae** Kenn., 1859, Pr. Phil. Ac., 100.  
Illinois to Mississippi.

**Carphophis amoena** Gerv., 1843, l. c., 191.  
Massachusetts to Illinois and southward.

**(B) Celuta vermis** Kenn., 1859, Pr. Phil. Ac., 99.  
Missouri and southward.

- GEOPHIS** Wagler, 1830, Amph., 342.  
*Rabdosoma semidoliatum* D. & B., 1854, Erp., VII, 93.  
 Mexico.
- G. bicolor** Gthr., 1868, Ann. Mag., 413.  
 Valley of Mexico.
- G. latifrontalis** Grmn., 1883, Mem. M. C. Z., Rept., 103.  
 San Luis Potosi.
- G. unicolor** Fisch., 1881, Abh. Nat. Ver. Brem., VII, 227, pl.  
 xv, f. 1-3.  
 Mexico.
- Sympholis lippiens** Cope, Pr. Phil. Ac., 524.  
 Guadalajara.

## TOXICOPHIDIA.

### PROTEROGLYPHA.

#### CONOCERCA.

#### ELAPIDAE.

- ELAPS** Schneid., 1801, Amph., 289.
- Coluber fulvius** Linn., 1766, Syst., I, 381.  
 Southern States east of the Mississippi.
- (B) **E. nigrocinctus** Grd., 1854, Pr. Phil. Ac., 226.  
 Central America to Mexico.
- (C) **E. affinis** Jan, 1859, Rev. and Mag. Zool., 6, 14, pl. B,  
 f. 2.  
 Mexico.
- (D) **E. bipunctiger** D. & B., 1854, Erp., VII, 1227.  
 Mexico; Florida.
- (E) **E. tenere** B. & G., 1853, Serp., 22, 156.  
 Texas.
- (F) **E. apiatus** Jan, 1859, l. c., pp. 6, 11, pl. A, f. 4.  
 Vera Cruz.
- (G) **E. epistema** D. & B., 1854, Erp., VII, 1222.  
 Mexico.
- (H) **E. diastema** D. & B., l. c., 1222.  
 Mexico.
- (I) **E. cerebripunctatus** Pet., 1869, Mb. Brl. Ak., 877.  
 Pueblo.
- E. euryxanthus** Kenn., 1860, Pr. Phil. Ac., 337.  
 Arizona to Mexico.
- E. maregravii** var. *laticollaris* Pet., 1869, Mb. Brl. Ak.  
 Pueblo.

**E. decoratus** Jan, 1859, l. c., pp. 7, 14, pl. B, f. 5.  
Mexico.

**E. elegans** Jan, l. c., pp. 6, 13, pl. B, f. 1.  
Mexico.

## PLATYCERCA.

### HYDROPHIDAE.

**PELAMIS** Daud., 1803, Rept., VII, 357.

**Anguis platyura** Linn., 1766, Syst., I, 391.

West coast of Mexico and Central America to East  
Indies and China.

## SOLENOGLYPHA.

### BOTHROPHERA.

#### CROTALIDAE.

**CROTALUS** Linn., 1754, Mus. Ad. Fridr., 39.

**C. durissus** Linn., 1758, Syst., I, 214.

Brazil to Mexico.

(B) **C. molossus** B. & G., 1853, Serp., 10.  
North Mexico; Arizona; New Mexico.

(C) **Caudisona basilisca** Cope, 1864, Pr. Phil. Ac., 166.  
Western Mexico.

**C. adamanteus** Beauv., 1799, Trans. Ann. Phil. Soc., IV, 368.  
Texas to North Carolina.

(B) **Caudisona scutulatus** Kenn., 1861, Pr. Phil. Ac., 207.  
Arizona; Mexico.

(C) **Crotalus atrox** B. & G., l. c., 5, 156.  
Texas to Mexico.

**C. confluentus** Say, 1823, Long's Exp., II, 48.  
Dakota to Texas.

(B) **Caudisona pyrrha** Cope, 1866, Pr. Phil. Ac., 308, 310.  
Arizona.

**C. oregonus** Holbr., 1842, III, 21, pl. 3.  
Oregon to California.

(B) **C. lucifer** B. & G., 1852, Pr. Phil. Ac., 177.  
California to Mexico.

(C) **C. lucifer** var. **cerberus** Coues, 1875, Wheeler's Rep.,  
V, 607.  
Arizona.



- (D) *Caudisona mitchellii* Cope, 1861, Pr. Phil. Ac., 293.  
Lower California.
- (E) *Caud. enyo* Cope, l. c., 293.  
Lower California.
- Crotalus exsul* Grmn., 1883, Mem. M. C. Z., Rept., 114.  
Cedros Island.
- C. horridus* Linn., 1758, Syst., I, 214.  
New England to Texas.
- C. cerastes* Hallow., 1854, Pr. Phil. Ac., 95.  
California; Arizona; Mexico.
- ?*Caudisona lepida* Kenn., 1861, Pr. Phil. Ac., 206.  
Mexico.
- Crotalus tigris* (Kenn.) Bd., 1859, Mex. Bound., II, Rept., 14,  
pl. 4.  
Mexico.
- C. triseriatus* Wieg., 1828, Mus. Berl.  
Mexico.
- (B) *C. jimenezii* Duges, 1879, La Natureza, IV, 23.  
Mexico.
- SISTRURUS** Grmn., 1883, Mem. M. C. Z., Rept., 110, 118, 176.
- Crotalinus catenatus* Raf., 1818, Am. Month. Mag., IV, 41.  
Ohio and Michigan to the Plains and south to Missis-  
sippi.
- (B) *Crotalophorus consors* B. & G., 1853, Serp., 12.  
Texas.
- Crotalus miliarius* Linn., 1766, Syst., I, 372.  
Southern States.
- (B) *Crotaloph. edwardsii* B. & G., l. c., 15.  
Texas; Arizona; Sonora; Mexico.
- (C) *Crotalus ravus* Cope, 1865, Pr. Phil. Ac., 191.  
Mexican plateau.
- Crotalus intermedius* Fisch., 1881, Abh. Nat. Ver. Brem.,  
VII, 230, pl. XIV, f. 1-4.  
Mexico.
- ANCISTRODON** Pal. de Beauv., 1799, Trans. Am. Phil. Soc., IV,  
381.
- Coluber contortrix* Linn., 1758, Syst., I, 216.  
Mississippi valley to New England.
- (B) *Acontias atrofuscus* Troost., 1836, Ann. N. Y. Lyc.,  
181. Mountains from Virginia southward.
- Crotalus piscivorus* LaC., 1789, Quad. Ovip. Serp., II, pp.  
130, 424.  
South Carolina to Texas.

- (B) *Toxicophis pugnax* B. & G., 1853, Serp., 20, 156.  
Texas.
- A. bilineatus* Gthr., 1863, Ann. Mag., 364.  
West Mexico; Tehuantepec.

## BATRACHIA.

### APODA.

#### CAECILIIDAE.

- DERMOPHIS** Pet., 1879, Mb. Brl. Akad., 937.  
*Siphonops mexicanus* D. & B., 1841, Erp., VIII, 284.  
Mexico.

## CAUDATA.

### SIRENIDAE.

- SIREN** Linn., 1766, Act. Acad. Upsal. (dissert. auct. Osterdam), 15.  
*S. lacertina* Linn., 1766, l. c.  
North Carolina to Illinois and Mexico.
- PSEUDOBANCHUS** Gray, 1825, Ann. Phil., 216.  
*Siren striata* LeC., 1824, Ann. Lyc. N. Y., I, 54, pl. 4.  
South Carolina; Georgia; Simahmoo Bay, Washington  
Territory (Yarrow).

### PROTEIDAE.

- NECTURUS** Raf., 1819, Jour. Phys., Vol. 88, 417.  
*N. maculatus* Raf., l. c.  
Mississippi valley and eastward; Canada.
- Menobranchus punctatus* Gibbes, 1853, Jour. B. N. H. Soc.,  
369.  
North Carolina; South Carolina.

### AMPHIUMIDAE.

- AMPHIUMA** Linn., Garden, 1821, Linn. Corresp., Smith, 333.  
*A. means* Linn., 1821, l. c., 333, 532, 599.  
North Carolina to Louisiana.
- A. tridactyla* Cuv., 1828, Mem. Mus., XIV, pl. 1.

**CRYPTOBRANCHUS** Leuck., 1821, Isis, 257.

**Salamandra alleghaniensis** Latr., 1802, Rept., II, 253 (index).

New York to Missouri.

**Menopoma fusca** Holbr., 1842, Herp., V, 99, pl. 33.

Pennsylvania to Louisiana.

## SALAMANDROIDEA.

### AMBLYSTOMATIDAE.

**AMBLYSTOMA** Tschudi, 1838, Batr., 57.

**Salamandra opaca** Gravenh., 1807, Ueb. Zool. Syst., 431.

New Hampshire to Mexico.

**S. talpoidea** Holbr., 1842, Herp., V, 73, pl. 24.

South Carolina to Louisiana.

**S. tigrina** Green, 1825, Jour. Phil. Ac., V, 116.

Mississippi valley to New Jersey.

(B) **A. bicolor** Hallow., 1857, Pr. Phil. Ac., 215.

New Jersey.

(C) **A. mavortium** Bd., 1849, Jour. Phil. Ac., I, 292.

Dakota to Mexico.

(D) **A. californiense** Gray, 1853, Pr. Z. S. Lond., 11, pl. 7.

California.

(E) **A. trisruptum** Cope, 1867, Pr. Phil. Ac., 194.

Colorado to New Mexico.

(F) **A. xiphias** Cope, 1867, l. c., 192.

Ohio.

(G) **A. obscurum** (Bd.) Cope, l. c., 192.

Iowa.

**Lacerta punctata** Linn., 1766, Syst., 370.

Maine to Texas.

**A. macrodactylum** Bd., 1849, Jour. Phil. Ac., 292.

Oregon.

**A. paroticum** (Bd.) Cope, 1867, Pr. Phil. Ac., 200.

Oregon; Puget sound.

**A. aterrimum** Cope, 1867, Pr. Phil. Ac., 201 (s. d.).

Rocky mountains.

**A. tenebrosum** B. & G., 1852, Pr. Phil. Ac., 174.

Oregon.

**A. conspersum** Cope, 1859, Pr. Phil. Ac., 123.

Carlisle, Pennsylvania.

**Salamandra texana** Matthes, 1855, Alg. Deutsch. Nat. Zeit.,

266. (?)

- S. jeffersoniana** Green, 1827, Cont. Macl. Lyc., 4.  
New England and Canada to Illinois.
- (B) **A. laterale** Hallow., 1858, Jour. Phil. Ac., III, 352.  
Canada to Wisconsin.
- (C) **A. platineum** Cope, 1867, Pr. Phil. Ac., 198.  
Ohio.
- (D) **A. fuscum** Hallow., 1858, l. c., 355.  
Indiana; Virginia.
- A. cingulatum** Cope, 1867, Pr. Phil. Ac., 205 (s. d.).  
South Carolina.
- A. microstomum** Cope, 1867, l. c., 206.  
Louisiana to Ohio.
- Gyrinus mexicanus** Shaw, 1800, Nat. Misc., 343.  
Mexico.
- Axolotes maculata** Owen, 1844, Ann. Mag., XIV, 23. (?)  
Mexico.
- DICAMPTODON** Strauch, 1870, Mem. Acad. Imp. St. Petersb.  
(4), XVI, 68.
- Triton ensatus** Eschsch., 1833, Zool. Atlas, pt. 5, p. 6, pl. 22.  
California.

## PLETHODONTIDAE.

- ANAIDES** Bd., 1849, Icon. Encycl., II, 256.
- Salamandra lugubris** Hallow., 1848, Jour. Phil. Ac. (2), I, 126.  
California.
- A. ferreus** Cope, 1869, Pr. Phil. Ac., 109.  
Oregon.
- PLETHODON** Tschudi, 1838, Batr., 92.
- Heredia oregonensis** Grd., 1856, Pr. Phil. Ac., 235.  
Oregon; California.
- P. flavipunctatus** Strauch, 1870, Salamand., 71.  
California.
- Salamandra glutinosa** Green, 1818, Jour. Phil. Ac., I, 357.  
Louisiana to Wisconsin and east.
- P. croceator** Cope, 1867, Pr. Phil. Ac., 210.  
Fort Tejon, California.
- P. intermedius** (Bd.) Cope, l. c., 209.  
Vancouver's island.
- S. erythronota** Green., 1818, Jour. Phil. Ac., 356.  
Wisconsin to Canada.
- (B) **S. cinerea** Green, l. c., 356.  
Indiana; Pennsylvania; Canada.

**(C) P. dorsalis** Baird.

Kentucky.

**P. iecanus** (Cope) Yarrow, 1883, (?)**HEMIDACTYLIUM** Tschudi, 1838, *Batr.*, 59, 94.**Salamandra scutata** Schleg., 1838, *Fauna Japon.*, *Amph.*, 119.  
Canada to Texas.**Salamandrina attenuata** Eschsch., 1833, *Zool. Atl.*, pt. V, 1,  
pl. 21.

California.

**H. pacificum** Cope, 1865, *Pr. Phil. Ac.*, 195.

California.

**Batrachoseps nigriventris** Cope, 1869, *Pr. Phil. Ac.*, 98.

California.

**GEOTRITON** Bonap., 1831, *Saggio*, 84 (*Spelerpes* Raf., 1832).**Salamandra rubra** Latr., 1802, *Rept.*, IV, 305.

Missouri to Florida.

**(B) Pseudotriton montanus** Bd., 1849, *Jour. Phil. Ac.*  
(2), I, 293.

New York to South Carolina.

**(C) Spelerpes sticticeps** Baird.

Mexico.

**Salam. longicauda** Green, 1818, *Jour. Phil. Ac.*, I, 351.

Ohio to Georgia.

**Sal. guttolineata** Holbr., 1842, *Herp.*, V, 29, pl. 7.

Ohio to Georgia.

**Sal. bilineata** Green, 1818, *Jour. Phil. Ac.*, I, 352.

Florida to Ohio.

**Sal. variegata** Gray, 1831, *Synops.*, 107.

City of Mexico to Central America.

**Spelerp. multiplicatus** Cope, 1869, *Pr. Phil. Ac.*, 106.

Arkansas.

**S. lineolus** Cope, 1865, *Pr. Phil. Ac.*, 197. (?)

Vera Cruz; Orizaba.

**S. chiropterus** Cope, 1863, *Pr. Phil. Ac.*, 54. (?)

Mexico.

**S. cephalicus** Cope, 1865, *Pr. Phil. Ac.*, 196.

Mexico.

**S. leprosus** Cope, *Pr. Phil. Ac.*, 105.

Vera Cruz; Oaxaca; Orizaba.

**S. belli** Gray, 1859, *Batr. Grad.*, 46.

Mexico.

**Oedipus rufescens** Cope, 1869, *Pr. Phil. Ac.*, 104.

Vera Cruz.

- O. morio* Cope, l. c., 103.  
Mexico.
- Pseudotriton marginatus* Hallow., 1856, Pr. Phil. Ac., 130.  
Georgia.
- Salam. porphyritica* Green, 1827, Macl. Lyc., I, 3, pl. 1, f. 2.  
Ohio to Massachusetts and Georgia.
- Spelerp. laticeps* Broc., 1883, Miss. Sci. Mex., Batr., 110, pl.  
18, f. 1.  
Vera Cruz.
- Bolitoglossa mexicana* D. & B., 1854, Erp., IX, 93, pl. 104, f. 1.  
Mexico.
- MANCULUS** Cope, 1869, Pr. Phil. Ac., 101.
- Salamandra quadrigitata* Holbr., 1842, Herp., V, 65, pl. 21.  
North Carolina to Florida.
- M. remifer* Cope, 1869, Rep. Peab. Ac., 84.  
Florida.

## DESMOGNATHIDAE.

- DESMOGNATHUS** Bd., 1849, Jour. Phil. Ac. (2), I, 282.
- Triturus fuscus* Raf., 1820, Ann. of Nat. (Bd.).  
New York to Louisiana.
- (B) *S. auriculata* Holbr., l. c., 47, pl. 12.  
Ohio to Georgia.
- Salam. nigra* Green, 1818, Jour. Phil. Ac., I, 352.  
Illinois to Georgia.
- \* *S. quadrimaculata* Holbr., 1842, Herp., V, 49, pl. 13.  
Florida to New York.
- D. ochrophaea* Cope, 1859, Pr. Phil. Ac., 124.  
New York to Georgia.
- THORIUS** Cope, 1869, Am. Nat., 222.
- T. pennatulus* Cope, l. c.  
Mexico.

## SALAMANDRIDAE.

- DIEMYCTYLUS** Raf., 1820, Ann. Nat., No. 22.
- Triturus (Notophthalmus) miniatus* Raf., l. c.  
Canada to Texas.
- (B) *T. (Diemyctylus) viridescens* Raf., l. c.  
Canada to Texas.
- Triton torosus* Eschsch., 1833, Zool. Atlas, V, 12, pl. 21, f. 15.  
Oregon; California.

## ECAUDATA.

## RANIDAE.

- RANA** Linn., 1735, Syst., —1758, Syst., I, 210, —1766, Syst., I, 354.
- R. catesbeiana** Shaw, 1802, Zool., III, 106.  
Mississippi valley to the Atlantic.
- (B) **R. horiconensis** Holbr., 1842, Herp., IV, 83, pl. 19.  
New York; Canada.
- R. clamitans** Latr., 1801, Rept., II, 157.  
New England to Texas.
- (B) **R. septentrionalis** Bd., 1854, Pr. Phil. Ac., 61.  
Canada to Montana.
- R. montezumae** Bd., 1854, Pr. Phil. Ac., 61.  
City of Mexico.
- R. virescens** Kalm, 1761, Resa N. Amer., III, 46 (*halecina* auct.).  
Mexico; United States and northward.
- (B) **R. berlandieri** Bd., 1859, Mex. Bd. Surv., Rept., 27, pl. 26, f. 7-10.  
Mississippi valley; Dakota to Mexico.
- (C) **R. nigricans** Hallow., 1854, Pr. Phil. Ac., 96.  
El Paso creek, California.
- (D) **R. areolata** B. & G., 1852, Pr. Phil. Ac., 173.  
Texas.
- (E) **R. capito** LeC., 1855, Pr. Phil. Ac., 425, pl. 5.  
Illinois to Florida.
- (F) **R. sinuata** Bd., 1854, Pr. Phil. Ac., 61 (*circulosa* Jord.).  
New York to Michigan.
- (G) **R. lecontei** B. & G., 1853, Pr. Phil. Ac., 301.
- R. palustris** LeC., Ann. Lyc. N. Y., I, 282.  
Missouri to the Atlantic.
- R. silvatica** LeC., l. c., 282.  
Mississippi valley to Atlantic.
- (B) **R. cantabrigensis** Bd., 1854, Pr. Phil. Ac., 61.  
Canada to Saskatchewan; New England.
- (C) **R. aurora** B. & G., 1852, Pr. Phil. Ac., 174.  
California; Oregon.
- R. pretiosa** B. & G., 1853, Pr. Phil. Ac., 378.  
Puget sound.
- R. maculata** Brocchi, 1876, Bull. Soc. Philom. (7), I, 178. ?  
Mexico.

- R. adtrita** Trosch., 1865, Wirbelth. Mex., 82 ?  
Mexico.
- R. pachyderma** Cope ?

## ENGYSTOMATIDAE.

- ENGYSTOMA** Fitz., 1826, Neue Class., 65.
- E. carolinense** Holbr., 1838, Herp., I, 83, pl. 2.  
South Carolina to Missouri and Florida.
- E. ustum** Cope, 1866, Pr. Phil. Ac., 131.  
Mexico.
- E. elegans** Blgr., 1882, Cat. Batr. Sal., 162.  
Cordova, Mexico.
- E. rugosum** D. & B., 1841, Erp., VIII, 744.  
Mexico.

## CYSTIGNATHIDAE.

- HYLODES** Fitz., 1826, Neue Class., 38.
- H. ricordii** D. & B., 1841, Erp., VIII, 623.  
Southern Florida.
- Lithodytes latrans** Cope, 1878, Amer. Nat., 186 ?  
Texas.
- Syrrophus marnockii** Cope, l. c., 253. ?  
Texas.
- H. berkenbuschii** Pet., 1869, Mb. Berl. Akad., 879.  
Mexico.
- Batrachyla longipes** Bd., 1859, Mex. Bd. Surv., II, pl. 37.?  
California to British America.

## BUFONIDAE.

- BUFO** Laur., 1768, Syst., 25.
- Rana lentiginosa** Shaw, 1802, Zool., III, 173.  
North Carolina to Colorado and Florida.
- (B) **B. americanus** (LeC.) Holbr., Herp., V, 17.  
Nova Scotia to Dakota, and southward.
- (C) **B. fowleri** Putnam, Rep. Peab. Ac.  
This is an **americanus** of moderate size and with frontal ridges low, close together, and nearly or quite parallel.  
Voice peculiar.  
Manitoba to Winnipeg; Massachusetts.
- (D) **B. cognatus** Say, 1823, Long's Exp., II, 190.  
Arkansas; Colorado; Dakota.
- (E) **B. frontosus** Cope, 1866, Pr. Phil. Ac., 301.  
Colorado; Utah; New Mexico.



- (F) *B. dorsalis* Hallow., 1852, Pr. Phil. Ac., 181.  
New Mexico.
- (G) *B. speciosus* Grd., 1854, Pr. Phil. Ac., 86.  
Texas; New Mexico.
- (H) *B. microscaphus* Cope, 1866, Pr. Phil. Ac., 301.  
Colorado; Utah; California.
- (I) *B. pictus* Yarr., 1875, Wheeler's Rept., V, 522.  
Utah.
- (J) *B. mexicanus* Broc., 1879, Bull. Soc. Philom. (7), III,  
23.  
Mexico.
- B. punctatus* B. & G., 1852, Pr. Phil. Ac., 173.  
Texas; Mexico; Arizona.
- B. debilis* Grd., 1854, Pr. Phil. Ac., 87.  
Tamaulipas.
- B. halophila* B. & G., 1853, Pr. Phil. Ac., 301.  
California.
- B. columbiensis* B. & G., 1853, l. c., 378.  
Oregon and Washington Territory.
- B. valliceps* Wieg., 1833, Isis, 657.  
Louisiana to Mexico.
- B. compactilis* Wieg., l. c., 661        ?  
Texas; Mexico; Peru.
- B. dipternus* Cope, 1879, Am. Nat., XIII, 437        ?  
Montana.
- B. monksiae* Cope, 1879, Pr. Am. Phil. Soc., 263        ?
- B. copeii* Yarr. & Hensh., 1878, Rept. & Batr., W. 100 Merid., 4.  
Selkirk and James bay, British America.
- B. beldingii* Yarr., 1882, Pr. U. S. Mus., 441.  
La Paz, California.
- B. quercicus* Holbr., 1842, Herp., V, 13.  
North Carolina to Florida.
- B. occipitalis* Cameron, ———, Atti Ac. Torin, 889, XIV        ?  
Mexico.
- B. bocourti* Broc., 1876, Bull. Soc. Philom. (7), I, 186.  
Totonicapam, Mexico.
- B. argillaceus* Cope, 1868, Pr. Phil. Ac., 138        ?  
Western Mexico.

## HYLIDAE.

**CHOROPHILUS** Baird, 1854, Pr. Phil. Ac., 60.

*Hyla triseriata* Wied., 1839, Reise N. Amer., I, 249.  
New Jersey; Colorado.

- (B) *Helocaetes clarki* Bd., 1854, Pr. Phil. Ac., 60.  
Texas.
- (C) *C. triseriatus* subspecies *corporalis* Cope, 1875, Check-  
list ?  
New Jersey.
- Rana nigrita** LeC., 1824, Ann. N. Y. Lyc., I, 282.  
South Carolina; Florida.
- Cystignathus ornatus** Holbr., 1842, Herp., IV, 103, pl. 25.  
South Carolina; Georgia.
- Hylodes ocularis** Holbr., l. c., 137, pl. 35.  
South Carolina; Georgia.
- C. copii** Blgr., 1882, Cat. Bat. Sal., 334.  
Georgia.
- C. septentrionalis** Blgr., l. c., 335, pl. 23, f. 1.  
Great Bear lake.
- C. verrucosus** Cope, 1877, Pr. Am. Phil. Soc., 87 ?  
Florida.
- ACRIS** D. & B., 1841, Erp., VIII, 506.
- Rana gryllus** LeC., 1824, Ann. N. Y. Lyc., I, 282.  
Illinois; North Carolina to Florida.
- (B) **A. crepitans** Bd., 1854, Pr. Phil. Ac., 59.  
Maine to Dakota and Texas.
- (C) **A. achetæ** Bd., l. c., 59.  
Key West, Florida.
- (D) **A. bufonia** Blgr., 1882, Cat. Bat. Sal., 337.  
New Orleans.
- HYLA** Laur., 1768, Rept., 32.
- Calamita cinerea** Schn., 1799, Amph., 1, 174.  
This is the *H. carolinensis* of authors, = the cinereous frog  
of Pennant, 1792, Arct. Zool., II, 331.  
North Carolina to Florida.
- (B) **H. semifasciata** Hallow., 1856, Pr. Phil. Ac., 306.  
South Carolina; Texas.
- H. affinis** Bd., 1854, Pr. Phil. Ac., 61. ?  
Sonora.
- H. gratioza** LeC., 1856, Pr. Phil. Ac., 146, pl. VI.  
Georgia; Florida.
- H. versicolor** LeC., 1824, Ann. Lyc. N. Y., I, 281.  
Texas; Wisconsin; Massachusetts.
- H. femoralis** Daud., 1803, Rainettes, 15, pl. 1, f. 1.  
Georgia; Florida.
- H. squirella** Daud., l. c., pl. 14, f. 3.  
South Carolina; Florida.

- H. andersoni* Bd., 1854, Pr. Phil. Ac., 61.  
Maryland; South Carolina.
- H. eximia* Bd., l. c., 61.  
New Mexico; Mexico.
- H. regilla* B. & G., 1852, Pr. Phil. Ac., 174.  
Mexico; Oregon; Nevada.
- H. baudinii* D. & B., 1841, Erp., VIII, 564.  
Texas; Central America.
- H. nigropunctata* Blgr., 1882, Cat. Batr. Sal., 366.  
Cordova; Jalapa; Vera Cruz.
- H. crassa* Broc., 1876, Bull. Soc. Philom. (7), I, 130.  
Mexico.
- H. plicata* Broc., l. c.  
Mexico.
- H. cadaverina* Cope, 1866, Pr. Phil. Ac., 84 ?  
California.
- H. arenicolor* Cope, l. c.  
Utah; Sonora.
- H. curta* Cope, l. c., 313.  
Lower California.
- H. miotympanum* Cope, 1863, Pr. Phil. Ac., 47 ?  
Jalapa, Mexico.
- H. gracilipes* Cope, 1865, l. c., 195 ?  
Northeastern Mexico tableland.
- H. bistincta* Cope, 1877, Pr. Am. Phil. Soc., 87 ?  
Vera Cruz.
- Hylodes pickeringii* Holbr., 1842, Herp., IV, 135, pl. 34.  
Maine; Illinois; South Carolina.
- PHYLLOMEDUSA** Wagl., 1830, Syst. Amph., 201.
- P. dactylicolor* Cope, 1864, Pr. Phil. Ac., 181.  
Colima.

## PELOBATIDAE.

**SCAPHIOPUS** Holbr., 1838, Herp., I, 85.

*S. solitarius* Holbr., l. c., 85, pl. 12.

Massachusetts; Florida; Mississippi.

(B) var. *albus* Garman, 1877, Pr. A. A. A. S., Buffalo meeting, 194.

Average size less than that of preceding. Brown of the back lacks the red or chocolate tinge. Readily distinguished by the great amount of white on back, flanks and upper surface of limbs. The white forms spots or vermiculations which coalesce into bands of irregular shape and extent.

Key West, Florida.

- S. couchii** Bd., 1855, Pr. Phil. Ac., 52.  
Texas; Utah; California.
- (B) **S. varius** Cope, 1863, Pr. Phil. Ac., 52.  
Utah; Lower California.
- (C) **S. rectifrenis** Cope, l. c., 52.  
Tamaulipas; Coahuila.
- S. multiplicatus** Cope, l. c.  
Mexico.
- S. hammondi** Bd., 1859, P. R. R. Rep., X, pt. 4. 12, pl. 27, f. 2.  
California.
- S. bombifrons** Cope, 1863, Pr. Phil. Ac., 53.  
Missouri; Nebraska; Texas.
- S. dugesi** Broc., 1879, Bull. Soc. Philom. (7), III, 23.  
Mexico.
- Spea stagnalis** (Cope) Yarr., 1875, Wheeler's Rep., V, 525, pl. 25, f. 6-8.  
New Mexico.
- Scaphiop. intermontanus** (Cope) Yarr., 1883, Checklist, 26. ?