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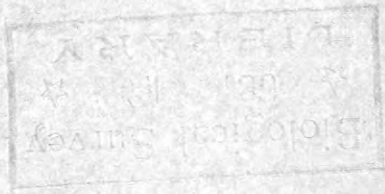
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SYSTEMATIC RESULTS OF THE STUDY OF NORTH AMERICAN
LAND MAMMALS DURING THE YEARS 1901 AND 1902.

BY GERRIT S. MILLER, JR., AND JAMES A. G. REHN.



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No. 3.—SYSTEMATIC RESULTS OF THE STUDY
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BY GERRIT S. MILLER, JR., AND JAMES A. G. REHN.

PROGRESS in the study of the North American mammal fauna¹ has been exceptionally rapid during the years 1901 and 1902. So great an advance in this field has probably never before been made in a like period, even during the remarkable activity of the preceding twelve years. Since 1900 there has been published the first general work on North American mammals subsequent to that of Baird; many changes in nomenclature have been found necessary, and the elaboration of material has resulted in the discovery of over 300 forms unknown two years ago.

To present a summary of this work, much of which has been issued in short special articles, is the object of this paper. So far as possible all personal opinion is excluded, and the facts are stated with no other end in view than that of history. While this method entails occasional difficulties and apparent inconsistencies, it is undoubtedly preferable to any attempt at a critical treatment of the subject that could now be made.

A word of explanation in regard to the form adopted. The entries are made in the order followed in our Systematic results of the study of North American land mammals to the close of the year 1900 (Proc. Boston soc. nat. hist., vol. 30, p. 1-352, December 27, 1901). All names recorded there and rejected during the years 1901 and 1902 are printed in italics, followed, except in case of elimination, by the current name. This is in heavy faced type. Additions are entered in the same type as other accepted names, but are numbered.² The system of citation is the same as that in the earlier paper, but duplication of references there published is as far as possible avoided. The members of genera revised since 1900 are

¹ As more natural than the Panama Railroad, the boundary between Panama and Cauca is here adopted as the southern limit of this fauna.

² Among these are included three, *Odocoileus virgultis*, *Proechimys centralis panamensis*, and *Ochotona minimus* inadvertently omitted from the original paper.

entered in the order adopted by the reviser; elsewhere alphabetic sequence has been followed. Except in the case of definitely revised genera, where the author's results are given entire, no attempt is made to record mere changes from binomial to trinomial and the opposite, which involve no actual alteration of names. To the list of additions and changes is appended an annotated bibliography of the papers in which these were made.

Order MARSUPIALIA.

Family DIDELPHIIDAE.

Genus **MARMOSA** Gray.

1. **Marmosa fulviventer** Bangs.
1901. *Marmosa fulviventer* BANGS, Amer. nat., xxxv, p. 632.
August, 1901.
TYPE LOCALITY.— San Miguel Island, Panama.

Genus **METACHIRUS** Burmeister.

2. **Metachirus fuscogriseus pallidus** Allen.
1901. *Metachirus fuscogriseus pallidus* ALLEN, Bull. Amer. mus. nat. hist., xiv, p. 215. July 3, 1901.
TYPE LOCALITY.— Orizaba, State of Vera Cruz, Mexico.

Genus **DIDELPHIS** Linnaeus.

The North American species of *Didelphis* were revised by Allen in 1901 (Bull. Amer. mus. nat. hist., xiv, p. 149–188, June 15, 1901), but so many additions and changes have since been made that the forms now recognized are here entered alphabetically.

Didelphis aurita Wied, p. 7,¹ proves to be confined to southern Brazil and neighboring regions (Allen, Bull. Amer. mus. nat.

¹The page citations after rejected names refer to our original paper (Proc. Boston soc. nat. hist., vol. 30, no. 1).

hist., xvi, p. 265, August 18, 1902). The name is therefore to be eliminated.

3. **Didelphis richmondi** Allen.

1901. *Didelphis richmondi* ALLEN, Bull. Amer. mus. nat. hist., xiv, p. 175. June 15, 1901.

TYPE LOCALITY.—Greytown, Nicaragua.

Didelphis marsupialis Linnaeus, p. 7. This name is now restricted to the large opossum of northeastern South America (see Thomas, Amer. nat., xxxv, p. 144-145, February, 1901, and Allen, Bull. Amer. mus. nat. hist., xvi, p. 256, August 18, 1902) and the Virginia opossum is known as:

Didelphis virginiana Kerr.

1792. *Didelphis virginiana* KERR, Anim. kingdom, p. 193.

1901. [*Didelphis*] *virginiana* THOMAS, Amer. nat., xxxv, p. 145. February, 1901.

TYPE LOCALITY.—Virginia.

4. **Didelphis marsupialis battyi** Thomas.

1902. *Didelphis marsupialis battyi* THOMAS, Novitates zoologicae, ix, p. 137. April 10, 1902.

TYPE LOCALITY.—Coiba Island, off west coast of Panama.

5. **Didelphis marsupialis etensis** Allen.

1901. *Didelphis karkinophaga caucae* BANGS, Amer. nat., xxxv, p. 633. August, 1901. (San Miguel Island, Panama.)
Not *D. karkinophaga caucae* Allen, Bull. Amer. mus. nat. hist., xiii, p. 192, October 23, 1900.

1902. *Didelphis marsupialis etensis* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 262. August 18, 1902.

TYPE LOCALITY.—Eten, Piura, Peru.

6. **Didelphis marsupialis insularis** Allen.

1902. *Didelphis marsupialis insularis* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 259. August 18, 1902.

TYPE LOCALITY.—Caparo, Trinidad. Occurs also in Dominica, Grenada, and St. Vincent.

Didelphis marsupialis pigra (Bangs), p. 7, becomes:

Didelphis virginiana pigra Bangs.

1901. *Didelphis virginiana pigra* ALLEN, Bull. Amer. mus. nat. hist., xiv, p. 165. June 15, 1901.

Didelphis marsupialis californica (Bennett), p. 7. This name is replaced by:

Didelphis mesamericana Oken.

1816. *Did[elphys] mes-americana* OKEN, Lehrbuch der zoologie, II, p. 1152.

1902. *Didelphis mes-americana* ALLEN, Bull. Amer. mus. nat. hist., XVI, p. 256. August 18, 1902.

TYPE LOCALITY.—Northern Mexico.

7. **Didelphis mesamericana tabascensis** (Allen).

1901. *Didelphis marsupialis tabascensis* ALLEN, Bull. Amer. mus. nat. hist., XIV, p. 173. June 15, 1901.

1902. *Didelphis mes-americana tabascensis* ALLEN, Bull. Amer. mus. nat. hist., XVI, p. 257. August 18, 1902.

TYPE LOCALITY.—Teapa, State of Tabasco, Mexico.

8. **Didelphis mesamericana texensis** (Allen).

1901. *Didelphis marsupialis texensis* ALLEN, Bull. Amer. mus. nat. hist., XIV, p. 172. June 15, 1901.

1902. *Didelphis mes-americana texensis* ALLEN, Bull. Amer. mus. nat. hist., XVI, p. 256. August 18, 1902.

TYPE LOCALITY.—Brownsville, Cameron County, Texas.

Didelphis nelsoni Allen, Bull. Amer. mus. nat. hist., XIV, p. 160, June 15, 1901 (*nomen nudum*), is the same as:

9. **Didelphis yucatanensis** Allen.

1901. *Didelphis yucatanensis* ALLEN, Bull. Amer. mus. nat. hist., XIV, p. 178. June 15, 1901.

TYPE LOCALITY.—Chichen-Itza, Yucatan.

10. **Didelphis yucatanensis cozumelae** Merriam.

1901. *Didelphis yucatanensis cozumelae* MERRIAM, Proc. biol. soc. Washington, XIV, p. 101. July 19, 1901.

TYPE LOCALITY.—Cozumel Island, Yucatan.

Order EDENTATA.

Family MYRMECOPHAGIDAE.

Genus **CYCLOPES** Gray.

Cyclopes didactylus (Linnaeus), p. 9, is confined to South America. The Central American animal is:

Cyclopes dorsalis (Gray).

1865. *Cylothurus dorsalis* GRAY, Proc. zool. soc. London, 1865, p. 385, pl. 19.

1900. *C[cyclopes] d[idactylus] dorsalis* THOMAS, Ann. and mag. nat. hist., 7th ser., VI, p. 302. September, 1900.

1902. *Cyclopes dorsalis* BANGS, Bull. mus. comp. zool., XXXIX, p. 20. April, 1902.

TYPE LOCALITY.—Costa Rica.

Genus *Myrmecophaga* Linnaeus, p. 9, should stand as:

Genus **TAMANDUAS** F. Cuvier.

1829. *Tamanduas* F. CUVIER, Dict. des sci. nat., LIX, p. 501.

1901. *Tamanduas* ALLEN, Proc. biol. soc. Washington, XIV, p. 92. June 19, 1901.

Type.—*Myrmecophaga tetradactylu* LINNAEUS.

Genus *Falcifer* Rehn, p. 10. This name has been shown (Thomas, Amer. nat., XXXV, p. 143, February, 1901, and Allen, Proc. biol. soc. Washington, XIV, p. 91, June 19, 1901) to be a synonym of:

Genus **MYRMECOPHAGA** Linnaeus.

1758. *Myrmecophaga* LINNAEUS, Syst. nat., x ed., I, p. 35.

1901. *Myrmecophaga* THOMAS, Amer. nat., XXXV, p. 144. February, 1901.

- Type.— By elimination, *Myrmecophaga tridactyla* LINNAEUS.
Falcifer jubata (Linnaeus), p. 10, should stand as:
Myrmecophaga tridactyla Linnaeus.
 1758. *Myrmecophaga tridactyla* LINNAEUS, Syst. nat., x ed.,
 I, p. 35.
 1901. *Myrmecophaga tridactyla* THOMAS, Amer. nat., xxxv,
 p. 144. February, 1901.
 TYPE LOCALITY.— Brazil.

Order UNGULATA.

Family TAYASSUIDAE.

Genus TAYASSU Fischer.

11. **Tayassu angulatum crassum** Merriam.
 1901. *Tayassu angulatus crassus* MERRIAM, Proc. biol. soc.
 Washington, xiv, p. 124. July 19, 1901.
 TYPE LOCALITY.— Metlatoyuca, State of Puebla, Mexico.
12. **Tayassu angulatum humerale** Merriam.
 1901. *Tayassu angulatus humeralis* MERRIAM, Proc. biol. soc.
 Washington, xiv, p. 122. July 19, 1901.
 TYPE LOCALITY.— Armeria, State of Colima, Mexico.
13. **Tayassu angulatum yucatanense** Merriam.
 1901. *Tayassu angulatus yucatanensis* MERRIAM, Proc. biol.
 soc. Washington, xiv, p. 123. July 19, 1901.
 TYPE LOCALITY.— Tunkas, Yucatan.
14. **Tayassu crusnigrum** Bangs.
 1902. *Tayassu crusnigrum* BANGS, Bull. mus. comp. zool.,
 xxxix, p. 20. April, 1902.
 TYPE LOCALITY.— Boquete, Chiriqui, Panama. Altitude, 4000
 feet.
15. **Tayassu nanus** Merriam.
 1901. *Tayassu nanus* MERRIAM, Proc. biol. soc. Washington,
 xiv, p. 102. July 19, 1901.
 TYPE LOCALITY.— Cozumel Island, Yucatan.

Subgenus *OLIDOSUS* Merriam.

1901. *Oliosus* MERRIAM, Proc. biol. soc. Washington, xiv, p. 120. July 19, 1901. Type.—*Sus albirostris* ILLIGER = *Tayassu pecari* FISCHER.

Tayassu albirostre (Illiger), p. 13. This is replaced by :

Tayassu pecari Fischer.

1814. [*Tayassu*] *pecari* FISCHER, Zoognosia, iii, p. 285.

1902. *Tayassu pecari* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 165. July 1, 1902.

TYPE LOCALITY.—Paraguay.

16. **Tayassu pecari ringens** (Merriam).

1901. *Tayassu albirostris ringens* MERRIAM, Proc. biol. soc. Washington, xiv, p. 121. July 19, 1901.

1902. *Tayassu pecari ringens* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 166. July 1, 1902.

TYPE LOCALITY.—Apazote, near Yohaltun, State of Campeche, Mexico.

Family **CERVIDAE**.Genus **ODOCOILEUS** Rafinesque.

Genus *Odocoileus* Rafinesque, p. 13, has been replaced by :

Genus **DAMA** Zimmermann.

1777. *Dama* ZIMMERMANN, Specimen zoologiae geographicae, p. 351.

1902. *Dama* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 18-20. February 1, 1902.

Type.—*Dama virginiana* RAY = the Virginia deer.

According to Miller (Proc. biol. soc. Washington, xv, p. 39, March 5, 1902), Sclater (Ann. and mag. nat. hist., 7th ser., ix, p. 289-290, April, 1902), and Thomas (Proc. biol. soc. Washington, xv, p. 198, October 10, 1902) this change is not justified by the character of Zimmermann's work.

17. **Odocoileus costaricensis** Miller.

1901. *Odocoileus costaricensis* MILLER, Proc. biol. soc. Washington, XIV, p. 35. April 25, 1901.

TYPE LOCALITY.—Talamanca region, on the eastern side of Costa Rica, between the coast and the foot of the Cordilleras.

18. **Odocoileus hemionus canus** Merriam.

1901. *Odocoileus hemionus canus* MERRIAM, Proc. Washington acad. sci., III, p. 560. November 29, 1901.

TYPE LOCALITY.—Sierra en Media, State of Chihuahua, Mexico.

Odocoileus mexicanus (Gmelin), p. 16. This name is stated by Allen to be untenable, as identification of the *Cervus mexicanus* of Gmelin is not possible. He therefore replaces it by:

Dama lichtensteini Allen.

1902. *Dama lichtensteini* ALLEN, Bull. Amer. mus. nat. hist., XVI, p. 20. February 1, 1902.

According to Osgood (Proc. biol. soc. Washington, XV, p. 87-88, April 25, 1902), the name *mexicanus* as used by Lichtenstein is tenable for this species, which should be known as:

Odocoileus mexicanus (Lichtenstein).

1827-1834. *Cervus mexicanus* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. XVIII and accompanying text.

TYPE LOCALITY.—Valley of Mexico (see Osgood, Proc. biol. soc. Washington, XV, p. 88, April 25, 1902).

19. **Odocoileus rothschildi** (Thomas).

1902. *Dama rothschildi* THOMAS, Novitates zoologicae, IX, p. 136. April 10, 1902.

1902. *Odocoileus rothschildi* THOMAS, Proc. biol. soc. Washington, XV, p. 198. October 10, 1902.

TYPE LOCALITY.—Coiba Island, off west coast of Panama.

Odocoileus americanus (Erxleben), p. 14. Both Allen (Bull. Amer. mus. nat. hist., XVI, p. 19, February 1, 1902) and Osgood (Proc. biol. soc. Washington, XV, p. 87, April 25, 1902) have urged the untenability of this specific name. If this view be adopted the species will stand as:

Odocoileus virginianus (Boddaert).

1784. [*Cervus*] *virginianus* BODDAERT, Elenchus animalium, p. 136.

1898. *O[docoileus] virginianus* MERRIAM, Proc. biol. soc. Washington, XII, p. 100. April 30, 1898.
 TYPE LOCALITY.—Virginia.

20. **Odocoileus virginianus louisianae** G. M. Allen.
 1901. *Odocoelus* (sic) *virginianus louisianae* G. M. ALLEN, Amer. nat., XXXV, p. 449. June, 1901.
 TYPE LOCALITY.—Mer Rouge, Morehouse Parish, Louisiana.
21. **Odocoileus virgultis** (Hallock).
 1899. *Cariacus virgultis* HALLOCK, Forest and stream, LII, p. 404. May 27, 1899.
 TYPE LOCALITY.—Northwestern Minnesota and adjoining British provinces.

Genus **MAZAMA** Rafinesque.

22. **Mazama pandora** Merriam.
 1901. *Mazama pandora* MERRIAM, Proc. biol. soc. Washington, XIV, p. 105. July 19, 1901.
 TYPE LOCALITY.—Tunkas, Yucatan.

Genus **CERVUS** Linnaeus.

23. **Cervus merriami** Nelson.
 1902. *Cervus merriami* NELSON, Bull. Amer. mus. nat. hist., XVI, p. 7. January 16, 1902.
 TYPE LOCALITY.—Head of Black River, White Mountains, Apache County, Arizona. Altitude, about 9000 feet.
24. **Cervus roosevelti** Merriam.
 1897. *Cervus roosevelti* MERRIAM, Proc. biol. soc. Washington, XI, p. 272. December 17, 1897.
 1902. *Cervus roosevelti* NELSON, Bull. Amer. mus. nat. hist., XVI, p. 10. January 16, 1902.
 TYPE LOCALITY.—Mt. Elaine (on ridge between heads of Hoh, Elwah, and Soleduc Rivers), near Mt. Olympus, Clallam County, Washington.

Genus *Alces* Jardine, p. 18. As this name is antedated by the *Alce* of Blumenbach (Handbuch der naturgeschichte, 6th ed., p. 697, 1799), applied to another genus of *Cervidae*, it has been changed to:

Genus **PARALCES** Allen.

1902. *Paralces* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 160. July 1, 1902. Type.—*Cervus alces* LINNAEUS.

According to Thomas (Proc. biol. soc. Washington, xv, p. 197, October 10, 1902) this change is unnecessary. If it be accepted the two American species will stand as follows:

Paralces americanus (Clinton).

1822. *Cervus americanus* CLINTON, Letters on nat. hist. and int. resources of New York, p. 193.

1902. *Alces americanus* OSGOOD, Proc. biol. soc. Washington, xv, p. 87. April 25, 1902.

1902. *Paralces americanus* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 160. July 1, 1902.

TYPE LOCALITY.—Northern New York.

Paralces gigas (Miller).

1902. *Paralces gigas* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 160. July 1, 1902.

Genus **RANGIFER** Hamilton Smith.

Rangifer dawsoni Seton-Thompson, p. 19. According to Osgood (North Amer. fauna, no. 21, p. 26, September 26, 1901) no caribou occur on the Queen Charlotte Islands, and this animal is in reality *Rangifer arcticus* (Richardson).

25. **Rangifer granti** Allen.

1902. *Rangifer granti* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 122. March 31, 1902.

TYPE LOCALITY.—Western end of Alaska Peninsula, opposite Popoff Island, Alaska.

26. **Rangifer osborni** Allen.
1902. *Rangifer osborni* ALLEN, Bull. Amer. mus. nat. hist.,
xvi, p. 149. April 16, 1902.
TYPE LOCALITY.—Cassiar Mountains, British Columbia, Canada.
27. **Rangifer pearyi** Allen.
1902. *Rangifer pearyi* ALLEN, Bull. Amer. mus. nat. hist.,
xvi, p. 409. October 31, 1902.
TYPE LOCALITY.—Ellesmere Land, N. Lat. 79°.
28. **Rangifer stonei** Allen.
1901. *Rangifer stonei* ALLEN, Bull. Amer. mus. nat. hist.,
xiv, p. 143. May 28, 1901.
TYPE LOCALITY.—Kenai Peninsula, Alaska.

Family **ANTILOCAPRIDAE**.Genus **ANTILOCAPRA** Ord.

29. **Antilocapra americana mexicana** Merriam.
1901. *Antilocapra americana mexicana* MERRIAM, Proc. biol.
soc. Washington, xiv, p. 31. April 5, 1901.
TYPE LOCALITY.—Sierra en Media, State of Chihuahua,
Mexico.

Family **BOVIDAE**.Genus **OVIS** Linnaeus.

Ovis canadensis Shaw, p. 22. According to Elliot (Field Columbian mus., publication 45, zool. ser., II, p. 46, March, 1901) the publication of this name in the year 1804 is so questionable that the animal should be known as:

Ovis cervina Desmarest.

1804. *Ovis cervina* DESMAREST, Nouv. dict. d'hist. nat., xxiv,
p. 5.

TYPE LOCALITY.—Mountains of Alberta, Canada.

Hornaday (Fifth annual report of the New York zool. soc., p. 101, June 1, 1901) rejects both of these names and adopts:

Ovis montana Cuvier.

1817. *Ov[is] montana* CUVIER, Règne animal, t, p. 267 (not of Ord, 1815).

TYPE LOCALITY.—Rocky Mountains (50° N., 115° W.) between Alberta and British Columbia, Canada. (From Geoffroy, the basis of Cuvier's name.)

30. **Ovis canadensis auduboni** Merriam.

1901. *Ovis canadensis auduboni* MERRIAM, Proc. biol. soc. Washington, xiv, p. 31. April 5, 1901.

TYPE LOCALITY.—"Upper Missouri." Believed to be the Badlands of South Dakota.

31. **Ovis dalli kenaiensis** Allen.

1902. *Ovis dalli kenaiensis* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 145. April 23, 1902.

TYPE LOCALITY.—Head of Sheep Creek, Kenai Peninsula, Alaska.

32. **Ovis fannini** Hornaday.

1901. *Ovis fannini* HORNADAY, Fifth annual report of the New York zool. soc., appendix no. 1, p. 2. January 8, 1901.

TYPE LOCALITY.—Dawson City, Yukon, Canada.

33. **Ovis mexicanus** Merriam.

1901. *Ovis mexicanus* MERRIAM, Proc. biol. soc. Washington, xiv, p. 30. April 5, 1901.

TYPE LOCALITY.—Lake Santa Maria, State of Chihuahua, Mexico.

Order GLIRES.

Family SCIURIDAE.

Genus **SCIURUS** Linnaeus.

34. **Sciurus melania** (Gray).

1867. *Macroæus melania* GRAY, Ann. and mag. nat. hist., 3d ser., xx, p. 425. December, 1867.

1902. *Sciurus (Echinosciurus) melania* BANGS, Bull. mus. comp. zool., XXXIX, p. 22. April, 1902.

TYPE LOCALITY.— Point Burica, Costa Rica.

35. ***Sciurus yucatanensis baliolus*** Nelson.

1901. *Sciurus yucatanensis baliolus* NELSON, Proc. biol. soc. Washington, XIV, p. 131. August 9, 1901.

TYPE LOCALITY.— Apazote, State of Campeche, Mexico.

Sciurus ludovicianus Custis, p. 36. This name is antedated by :

Sciurus rufiventer E. Geoffroy.

1803. *Sciurus rufiventer* E. GEOFFROY, Catal. des mamm. du mus. national d'hist. nat., p. 176.

1902. *Sciurus rufiventer* ALLEN, Bull. Amer. mus. nat. hist., XVI, p. 167. July 1, 1902.

TYPE LOCALITY.— "North America." The type was collected by Michaux, probably in the lower Mississippi valley.

Sciurus ludovicianus limitis (Baird), p. 36, and

Sciurus ludovicianus neglectus (Gray), p. 36, now stand respectively as :

Sciurus rufiventer texianus (Bachman).

1838. *Sciurus texianus* BACHMAN, Proc. zool. soc. London, 1838, p. 86.

1902. *Sciurus rufiventer texianus* ALLEN, Bull. Amer. mus. nat. hist., XVI, p. 167. July 1, 1902.

TYPE LOCALITY.— Texas.

Sciurus rufiventer neglectus (Gray).

1902. *Sciurus rufiventer neglectus* ALLEN, Bull. Amer. mus. nat. hist., XVI, p. 167. July 1, 1902.

36. ***Sciurus aestuans chiriquensis*** Bangs.

1902. *Sciurus (Guerlinguetus) aestuans chiriquensis* BANGS, Bull. mus. comp. zool., XXXIX, p. 22. April, 1902.

TYPE LOCALITY.— Divala, Chiriqui, Panama.

37. ***Sciurus deppei vivax*** Nelson.

1901. *Sciurus deppei vivax* NELSON, Proc. biol. soc. Washington, XIV, p. 131. August 9, 1901.

TYPE LOCALITY.— Apazote, State of Campeche, Mexico.

38. **Sciurus browni** Bangs.

1902. *Sciurus (Microsciurus) browni* BANGS, Bull. mus. comp. zool., xxxix, p. 24. April, 1902.

TYPE LOCALITY.—Bogaba, Chiriqui, Panama.

Genus **SYNTHEOSCIURUS** Bangs.

1902. *Syntheosciurus* BANGS, Bull. mus. comp. zool., xxxix, p. 25. April, 1902. Type.—*Syntheosciurus brochus* BANGS.

39. **Syntheosciurus brochus** Bangs.

1902. *Syntheosciurus brochus* BANGS, Bull. mus. comp. zool., xxxix, p. 25. April, 1902.

TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 7000 feet.

Genus **EUTAMIAS** Trouessart.

40. **Eutamias cinereicollis canipes** Bailey.

1902. *Eutamias cinereicollis canipes* BAILEY, Proc. biol. soc. Washington, xv, p. 117. June 2, 1902.

TYPE LOCALITY.—Guadalupe Mountains, El Paso County, Texas. Altitude, 7000 feet.

Genus *Spermophilus* Cuvier, p. 46. This name is antedated by:

Genus **CITELLUS** Oken.

1816. *Citellus* OKEN, Lehrbuch der zoologie, II, p. 842.

1902. *Citellus* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 375. October 11, 1902.

Type.—*Mus citellus* LINNAEUS.

41. **Citellus annulatus goldmani** (Merriam).

1902. *Spermophilus annulatus goldmani* MERRIAM, Proc. biol. soc. Washington, xv, p. 69. March 22, 1902.

TYPE LOCALITY.—Santiago, Territory of Tepic, Mexico.

Spermophilus empetra (Pallas), p. 48. As the name *empetra* was based on a marmot, the spermophile now stands as:

Citellus parryii (Richardson).

1825. *Arctomys parryii* RICHARDSON, Appendix to Parry's second voyage, p. 316.

1902. *Spermophilus parryi* PREBLE, North Amer. fauna, no. 22, p. 46. October 31, 1902.

TYPE LOCALITY.—Five Hawser Bay, Lyon Inlet, Melville Peninsula, Keewatin, Canada.

42. **Citellus spilosoma arens** (Bailey).

1902. *Spermophilus spilosoma arens* BAILEY, Proc. biol. soc. Washington, xv, p. 118. June 2, 1902.

TYPE LOCALITY.—El Paso, El Paso County, Texas.

43. **Citellus spilosoma marginatus** (Bailey).

1902. *Spermophilus spilosoma marginatus* BAILEY, Proc. biol. soc. Washington, xv, p. 118. June 2, 1902.

TYPE LOCALITY.—Alpine, Brewster County, Texas.

Subgenus *Callospermophilus* Merriam, p. 46, is now regarded as a distinct genus.

Genus **CALLOSPERMOPHILUS** Merriam.

1901. *Callospermophilus* MERRIAM, Proc. Washington acad. sci., III, p. 563. November 29, 1901.

44. **Callospermophilus chrysodeirus trinitatis** (Merriam).

1901. *Callospermophilus chrysodeirus trinitatis* MERRIAM, Proc. biol. soc. Washington, XIV, p. 126. July 19, 1901.

TYPE LOCALITY.—Trinity Mountains, east of Hoopa Valley, Humboldt County, California. Altitude, 5700 feet.

45. **Callospermophilus madrensis** (Merriam).

1901. *Callospermophilus madrensis* MERRIAM, Proc. Washington acad. sci., III, p. 563. November 29, 1901.

TYPE LOCALITY.—Sierra Madre, near Guadalupe y Calvo, State of Chihuahua, Mexico. Altitude, 7000 feet.

Genus **CYNOMYS** Rafinesque.

Cynomys leucurus Merriam, p. 57. In place of this name Elliot has adopted:

Cynomys lewisii (Audubon and Bachman).

1854. *Arctomys lewisii* AUDUBON AND BACHMAN, *Quadr. N. Amer.*, III, p. 32.

1901. *Cynomys lewisii* ELLIOT, *Field Columbian mus.*, publication 45, zool. ser., II, p. 104. March, 1901.

TYPE LOCALITY. — "Shores of the Columbia River."

Genus *Arctomys* Storr, p. 58. This name is antedated by:

Genus **MARMOTTA** Zimmermann.

1777. *Marmotta* ZIMMERMANN, *Specimen zoologiae geographicae*, p. 509.

1902. *Marmotta* ALLEN, *Bull. Amer. mus. nat. hist.*, XVI, p. 17. February 1, 1902.

Type.— *Mus marmota* LINNAEUS.

Arctomys monax canadensis (Erxleben) p. 59. This stands as:

Arctomys monax empetra (Pallas).

1778. *Mus empetra* PALLAS, *Nov. sp. quadr. glir. ord.*, p. 75.

1902. *Arctomys monax empetra* PREBLE, *North Amer. fauna*, no. 22, p. 47. October 31, 1902.

TYPE LOCALITY.— Eastern Canada.

Family **MURIDAE**.

Genus **PEROMYSCUS** Gloger.

46. **Peromyscus cacabatus** Bangs.

1902. *Peromyscus cacabatus* BANGS, *Bull. mus. comp. zool.*, XXXIX, p. 29. April, 1902.

TYPE LOCALITY.— Boquete, Chiriqui, Panama. Altitude, 5000 feet.

47. **Peromyscus cozumelae** Merriam.

1901. *Peromyscus cozumelae* MERRIAM, *Proc. biol. soc. Washington*, XIV, p. 103. July 19, 1901.

TYPE LOCALITY.— Cozumel Island, Yucatan.

48. **Peromyscus leucopus minnesotae** Mearns.
1901. *Peromyscus leucopus minnesotae* MEARN'S, Proc. biol. soc. Washington, xiv, p. 154. August 9, 1901.
TYPE LOCALITY.—Fort Snelling, Hennepin County, Minnesota.
49. **Peromyscus oreas rubidus** Osgood.
1901. *Peromyscus oreas rubidus* OSGOOD, Proc. biol. soc. Washington, xiv, p. 193. December 12, 1901.
TYPE LOCALITY.—Mendocino City, Mendocino County, California.
50. **Peromyscus prevostensis** Osgood.
1901. *Peromyscus prevostensis* OSGOOD, North Amer. fauna, no. 21, p. 29. September 26, 1901.
TYPE LOCALITY.—Prevost Island, Queen Charlotte Islands, British Columbia, Canada.
- Subgenus *Megadontomys* Merriam, p. 86, is now regarded as a genus distinct from *Peromyscus*.

Genus **MEGADONTOMYS** Merriam.

1902. *Megadontomys* BANGS, Bull. mus. comp. zool., xxxix, p. 27. April, 1902.
51. **Megadontomys flavidus** Bangs.
1902. *Megadontomys flavidus* BANGS, Bull. mus. comp. zool., xxxix, p. 27. April, 1902.
TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 4000 feet.
- Peromyscus nelsoni* Merriam, p. 81, and
Peromyscus thomasi Merriam, p. 86, now stand respectively as follows:
- Megadontomys nelsoni** (Merriam).
1902. *M[egadontomys] nelsoni* BANGS, Bull. mus. comp. zool., xxxix, p. 27. April, 1902.
- Megadontomys thomasi** (Merriam).
1902. *M[egadontomys] thomasi* BANGS, Bull. mus. comp. zool., xxxix, p. 27. April, 1902.

Genus *Rhipidomys* Tschudi, p. 87. The Central American vesper rats are now distinguished as :

Genus **NYCTOMYS** Saussure.

1860. *Nyctomys* SAUSSURE, Revue et magasin de zoologie, 2d ser., XII, p. 106. March, 1860.

1902. *Nyctomys* BANGS, Bull. mus. comp. zool., XXXIX, p. 30. April, 1902.

Type.—*Hesperomys sunichrasti* SAUSSURE.

Rhipidomys decolorus True, p. 88, now stands as :

Nyctomys decolorus (True).

1902. *N[yctomys] decolorus* BANGS, Bull. mus. comp. zool., XXXIX, p. 30. April, 1902.

52. **Nyctomys nitellinus** Bangs.

1902. *Nyctomys nitellinus* BANGS, Bull. mus. comp. zool., XXXIX, p. 30. April, 1902.

TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 4000 feet.

Rhipidomys sumichrasti (Saussure), p. 88, is now :

Nyctomys sumichrasti (Saussure).

1902. *N[yctomys] sumichrasti* BANGS, Bull. mus. comp. zool., XXXIX, p. 30. April, 1902.

Genus **OTOTYLOMYS** Merriam.

1901. *Ototylomys* MERRIAM, Proc. Washington acad. sci., III, p. 561. November 29, 1901. Type.—*Ototylomys phyllotis* MERRIAM.

53. **Ototylomys phyllotis** Merriam.

1901. *Ototylomys phyllotis* MERRIAM, Proc. Washington acad. sci., III, p. 562. November 29, 1901.

TYPE LOCALITY.—Tunkas, Yucatan.

54. **Ototylomys phyllotis phaeus** Merriam.

1901. *Ototylomys phyllotis phaeus* MERRIAM, Proc. Washington acad. sci., III, p. 563. November 29, 1901.

TYPE LOCALITY.—Apazote, near Yohaltun, State of Campeche, Mexico.

Genus **TYLOMYS** Peters.

55. **Tylomys bullaris** Merriam.
 1901. *Tylomys bullaris* MERRIAM, Proc. Washington acad. sci., III, p. 561. November 29, 1901.
 TYPE LOCALITY. — Tuxtla, State of Chiapas, Mexico.
56. **Tylomys tumbalensis** Merriam.
 1901. *Tylomys tumbalensis* MERRIAM, Proc. Washington acad. sci., III, p. 560. November 29, 1901.
 TYPE LOCALITY. — Tumbala, State of Chiapas, Mexico.

Genus *Holochilus* Brandt, p. 89. The West Indian species are now placed in:

Genus **MEGALOMYS** Trouessart.

1881. *Megalomys* TROUESSART, Le Naturaliste, I, p. 357.
 February 1, 1881.

1902. *Megalomys* ALLEN, Bull. Amer. mus. nat. hist., XVI, p. 21. February 1, 1902.

Type. — *Mus pilorides* PALLAS.

According to Major, (Ann. and mag. nat. hist., 7th ser., VII, p. 205, February, 1901) this genus is not distinguishable from *Oryzomys*.

Holochilus pilorides (Pallas), p. 89. This now stands as:

Megalomys desmarestii (Fischer).

1829. *M[us] desmarestii* FISCHER, Synopsis mammalium, p. 316.

1902. *Megalomys desmaresti* ALLEN, Bull. Amer. mus. nat. hist., XVI, p. 21. February 1, 1902.

TYPE LOCALITY. — Island of Martinique, West Indies.

According to Major (Ann. and mag. nat. hist., 7th ser., VII, p. 205, February, 1901) the proper name for this species is *Oryzomys piloris* (Zimmermann).

57. **Megalomys luciae** (Major).

1901. *Oryzomys luciae* MAJOR, Ann. and mag. nat. hist., 7th ser., VII, p. 206. February, 1901.

TYPE LOCALITY. — Island of Santa Lucia, West Indies.

Genus **SIGMODON** Say and Ord.

This genus has been revised by Bailey (Proc. biol. soc. Washington, xv, p. 101–116, June 2, 1902). The species are arranged as follows:

Sigmodon hispidus Say and Ord.

Sigmodon hispidus littoralis Chapman.

Sigmodon hispidus spadicipygus (Bangs.)

Sigmodon hispidus texianus (Audubon and Bachman).

Sigmodon hispidus berlandieri (Baird).

1855. *Sigmodon berlandieri* BAIRD, Proc. acad. nat. sci. Philadelphia, vii, p. 333.

1897. *Sigmodon hispidus pallidus* MEARNS, Preliminary diagnoses of new mammals of the genera *Sciurus*, *Castor*, *Neotoma* and *Sigmodon*, from the Mexican border of the United States, p. 4. March 5, 1897. (Reprint: Proc. U. S. nat. mus., xx, p. 504. January 19, 1898.)

1902. *Sigmodon hispidus berlandieri* BAILEY, Proc. biol. soc. Washington, xv, p. 106. June 2, 1902.

TYPE LOCALITY.—Rio Nazas, State of Coahuila, Mexico.

Sigmodon hispidus eremicus Mearns.

Sigmodon hispidus arizonae Mearns.

Sigmodon hispidus mascotensis (Allen).

1897. *Sigmodon mascotensis* ALLEN, Bull. Amer. mus. nat. hist., ix, p. 54. March 15, 1897.

1897. *Sigmodon colimae* ALLEN, Bull. Amer. mus. nat. hist., ix, p. 55. March 15, 1897.

1902. *Sigmodon hispidus mascotensis* BAILEY, Proc. biol. soc. Washington, xv, p. 108. June 2, 1902.

58. **Sigmodon hispidus tonalensis** Bailey.

1902. *Sigmodon hispidus tonalensis* BAILEY, Proc. biol. soc. Washington, xv, p. 109. June 2, 1902.

TYPE LOCALITY.—Tonala, State of Chiapas, Mexico.

59. **Sigmodon hispidus major** Bailey.
 1902. *Sigmodon hispidus major* BAILEY, Proc. biol. soc. Washington, xv, p. 109. June 2, 1902.
 TYPE LOCALITY. — Sierra de Choix, 50 miles northeast of Choix, State of Sinaloa, Mexico.
- Sigmodon hispidus toltecus** (Saussure).
 1902. *Sigmodon hispidus toltecus* BAILEY, Proc. biol. soc. Washington, xv, p. 110. June 2, 1902.
60. **Sigmodon hispidus saturatus** Bailey.
 1902. *Sigmodon hispidus saturatus* BAILEY, Proc. biol. soc. Washington, xv, p. 111. June 2, 1902.
 TYPE LOCALITY. — Teapa, State of Tabasco, Mexico.
61. **Sigmodon hispidus microdon** Bailey.
 1902. *Sigmodon hispidus microdon* BAILEY, Proc. biol. soc. Washington, xv, p. 111. June 2, 1902.
 TYPE LOCALITY. — Puerto Morelos, Yucatan.
- Sigmodon hispidus borucae** (Allen).
 1902. *Sigmodon hispidus borucae* BAILEY, Proc. biol. soc. Washington, xv, p. 112. June 2, 1902.
62. **Sigmodon austerulus** Bangs.
 1902. *Sigmodon austerulus* BANGS, Bull. mus. comp. zool., xxxix, p. 32. April, 1902.
 TYPE LOCALITY. — Volcan de Chiriqui, Chiriqui, Panama. Altitude, 10,000 feet.
63. **Sigmodon alleni** Bailey.
 1902. *Sigmodon alleni* BAILEY, Proc. biol. soc. Washington, xv, p. 112. June 2, 1902.
 TYPE LOCALITY. — San Sebastian, Mascota, State of Jalisco, Mexico.
- Sigmodon fulviventor** Allen.
64. **Sigmodon melanotis** Bailey.
 1902. *Sigmodon melanotis* BAILEY, Proc. biol. soc. Washington, xv, p. 114. June 2, 1902.
 TYPE LOCALITY. — Patzcuaro, State of Michoacan, Mexico. Altitude, 7000 feet.
- Sigmodon minimus** Mearns.

65. **Sigmodon ochrognathus** Bailey.
1902. *Sigmodon ochrognathus* BAILEY, Proc. biol. soc. Washington, xv, p. 115. June 2, 1902.
TYPE LOCALITY. — Chisos Mountains, Brewster County, Texas. Altitude, 8000 feet.
66. **Sigmodon leucotis** Bailey.
1902. *Sigmodon leucotis* BAILEY, Proc. biol. soc. Washington, xv, p. 115. June 2, 1902.
TYPE LOCALITY. — Valparaiso Mountains, State of Zacatecas, Mexico. Altitude, 8700 feet.
67. **Sigmodon alticola** Bailey.
1902. *Sigmodon alticola* BAILEY, Proc. biol. soc. Washington, xv, p. 116. June 2, 1902.
TYPE LOCALITY. — Cerro San Felipe, State of Oaxaca, Mexico. Altitude, 10,000 feet.
68. **Sigmodon alticola amoles** Bailey.
1902. *Sigmodon alticola amoles* BAILEY, Proc. biol. soc. Washington, xv, p. 116. June 2, 1902.
TYPE LOCALITY. — Pinal de Amoles, State of Queretaro, Mexico. Altitude, 7000 feet.

Genus **ORYZOMYS** Baird.

The species of this genus occurring in Mexico and the United States have been revised by Merriam (Proc. Washington acad. sci., III, p. 273-295, July 26, 1901).

69. **Oryzomys albiventer** Merriam.
1901. *Oryzomys albiventer* MERRIAM, Proc. Washington acad. sci., III, p. 279. July 26, 1901.
TYPE LOCALITY. — Ameca, State of Jalisco, Mexico.
70. **Oryzomys angusticeps** Merriam.
1901. *Oryzomys angusticeps* MERRIAM, Proc. Washington acad. sci., III, p. 292. July 26, 1901.
TYPE LOCALITY. — Volcan Santa Maria, Guatemala. Altitude, 9000 feet.

71. **Oryzomys chapmani caudatus** Merriam.
1901. *Oryzomys chapmani caudatus* MERRIAM, Proc. Washington acad. sci., III, p. 289. July 26, 1901.
TYPE LOCALITY.—Comaltepec, State of Oaxaca, Mexico.
72. **Oryzomys chapmani dilutior** Merriam.
1901. *Oryzomys chapmani dilutior* MERRIAM, Proc. Washington acad. sci., III, p. 290. July 26, 1901.
TYPE LOCALITY.—Huauchinango, State of Puebla, Mexico.
73. **Oryzomys chapmani saturatior** Merriam.
1901. *Oryzomys chapmani saturatior* MERRIAM, Proc. Washington acad. sci., III, p. 290. July 26, 1901.
TYPE LOCALITY.—Tumbala, State of Chiapas, Mexico.
74. **Oryzomys cozumelae** Merriam.
1901. *Oryzomys cozumelae* MERRIAM, Proc. biol. soc. Washington, XIV, p. 103. July 19, 1901.
TYPE LOCALITY.—Cozumel Island, Yucatan.
75. **Oryzomys crinitus** Merriam.
1901. *Oryzomys crinitus* MERRIAM, Proc. Washington acad. sci., III, p. 281. July 26, 1901.
TYPE LOCALITY.—Tlalpam, Federal District, Mexico.
76. **Oryzomys crinitus aztecus** Merriam.
1901. *Oryzomys crinitus aztecus* MERRIAM, Proc. Washington acad. sci., III, p. 282. July 26, 1901.
TYPE LOCALITY.—Yautepec, State of Morelos, Mexico.
77. **Oryzomys devius** Bangs.
1902. *Oryzomys devius* BANGS, Bull. mus. comp. zool., XXXIX, p. 34. April, 1902.
TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 5000 feet.
78. **Oryzomys goldmani** Merriam.
1901. *Oryzomys goldmani* MERRIAM, Proc. Washington acad. sci., III, p. 288. July 26, 1901.
TYPE LOCALITY.—Coatzacoalecos, State of Vera Cruz, Mexico.
79. **Oryzomys hyloces** Merriam.
1901. *Oryzomys hyloces* MERRIAM, Proc. Washington acad. sci., III, p. 291. July 26, 1901.
TYPE LOCALITY.—Chicharras, State of Jalisco, Mexico.

80. **Oryzomys jalapae rufinus** Merriam.

1901. *Oryzomys jalapae rufinus* MERRIAM, Proc. Washington acad. sci., III, p. 285. July 26, 1901.

TYPE LOCALITY.—Catemaco, State of Vera Cruz, Mexico.

Oryzomys luciae Major. See **Megalomys luciae** (p. 79).

81. **Oryzomys mexicanus peragrus** Merriam.

1901. *Oryzomys mexicanus peragrus* MERRIAM, Proc. Washington acad. sci., III, p. 283. July 26, 1901.

TYPE LOCALITY.—Rio Verde, State of San Luis Potosi, Mexico.

Oryzomys palustris natator Chapman, p. 94, is regarded by Merriam as a distinct species:

Oryzomys natator (Chapman).

1901. *Oryzomys natator* MERRIAM, Proc. Washington acad. sci., III, p. 277. July 26, 1901.

82. **Oryzomys natator floridanus** Merriam.

1901. *Oryzomys natator floridanus* MERRIAM, Proc. Washington acad. sci., III, p. 277. July 26, 1901.

TYPE LOCALITY.—Everglade, Monroe County, Florida.

Regarded by Rhoads (Amer. nat., xxxvi, p. 663, August, 1902) as identical with *Oryzomys palustris coloratus* Bangs.

83. **Oryzomys palatinus** Merriam.

1901. *Oryzomys palatinus* MERRIAM, Proc. Washington acad. sci., III, p. 290. July 26, 1901.

TYPE LOCALITY.—Teapa, State of Tabasco, Mexico.

84. **Oryzomys palustris oryzivorus** (Bachman).

1854. *Arvicola oryzivora* BACHMAN, Quadr. N. Amer., III, p. 214.

1902. *Oryzomys palustris oryzivorus* RHOADS, Amer. nat., xxxvi, p. 662. August, 1902.

TYPE LOCALITY.—Southeastern South Carolina, between Charleston and the Savannah River.

Oryzomys palustris texensis Allen, p. 94, is regarded by Merriam (Proc. Washington acad. sci., III, p. 276, July 26, 1901) as identical with *Oryzomys palustris*.

85. **Oryzomys panamensis** Thomas.
 1901. *Oryzomys panamensis* THOMAS, Ann. and mag. nat. hist., 7th ser., VIII, p. 252. September, 1901.
 TYPE LOCALITY.— City of Panama, Panama.
86. **Oryzomys rhabdops** Merriam.
 1901. *Oryzomys rhabdops* MERRIAM, Proc. Washington acad. sci., III, p. 291. July 26, 1901.
 TYPE LOCALITY.— Calal, Guatemala. Altitude, 10,000 feet.
87. **Oryzomys richmondi** Merriam.
 1901. *Oryzomys richmondi* MERRIAM, Proc. Washington acad. sci., III, p. 284. July 26, 1901.
 TYPE LOCALITY.— Escondido River, 50 miles above Bluefields, Nicaragua.
88. **Oryzomys rostratus** Merriam.
 1901. *Oryzomys rostratus* MERRIAM, Proc. Washington acad. sci., III, p. 293. July 26, 1901.
 TYPE LOCALITY.— Metlatoyuca, State of Puebla, Mexico.
89. **Oryzomys rostratus megadon** Merriam.
 1901. *Oryzomys rostratus megadon* MERRIAM, Proc. Washington acad. sci., III, p. 294. July 26, 1901.
 TYPE LOCALITY.— Teapa, State of Tabasco, Mexico.
90. **Oryzomys rufus** Merriam.
 1901. *Oryzomys rufus* MERRIAM, Proc. Washington acad. sci., III, p. 287. July 26, 1901.
 TYPE LOCALITY.— Santiago, Tepic, State of Jalisco, Mexico.
91. **Oryzomys teapensis** Merriam.
 1901. *Oryzomys teapensis* MERRIAM, Proc. Washington acad. sci., III, p. 286. July 26, 1901.
 TYPE LOCALITY.— Teapa, State of Tabasco, Mexico.
92. **Oryzomys tectus** Thomas.
 1901. *Oryzomys tectus* THOMAS, Ann. and mag. nat. hist., 7th ser., VIII, p. 251. September, 1901.
 TYPE LOCALITY.— Bogaba, Chiriqui, Panama. Altitude, about 800 feet.

93. **Oryzomys yucatanensis** Merriam.
1901. *Oryzomys yucatanensis* MERRIAM, Proc. Washington
acad. sci., III, p. 294. July 26, 1901.
TYPE LOCALITY.— Chichen-Itza, Yucatan.
94. **Oryzomys zygomatiscus** Merriam.
1901. *Oryzomys zygomatiscus* MERRIAM, Proc. Washington
acad. sci., III, p. 285. July 26, 1901.
TYPE LOCALITY.— Nenton, Guatemala.

Subgenus OLIGORYZOMYS Bangs.

1900. *Oligoryzomys* BANGS, Proc. New England zool. club,
I, p. 94. February 23, 1900. Type.— *Oryzomys navus*
BANGS.
95. **Oryzomys vegetus** Bangs.
1902. *Oryzomys (Oligoryzomys) vegetus* BANGS, Bull. mus.
comp. zool., XXXIX, p. 35. April, 1902.
TYPE LOCALITY.— Boquete, Chiriqui, Panama. Altitude, 4000
feet.

Genus ZYGODONTOMYS Allen.

- Oryzomys chrysomelas* Allen, p. 92, now stands as :
Zygodontomys chrysomelas (Allen).
1902. *Zygodontomys chrysomelas* BANGS, Bull. mus. comp.
zool., XXXIX, p. 37. April, 1902.
96. **Zygodontomys seorsus** Bangs.
1901. *Zygodontomys seorsus* BANGS, Amer. nat., XXXV, p.
642. August, 1901.
TYPE LOCALITY.— San Miguel Island, Panama.

Genus REITHRODONTOMYS Giglioli.

97. **Reithrodontomys australis vulcanius** Bangs.
1902. *Reithrodontomys australis vulcanius* BANGS, Bull. mus.
comp. zool., XXXIX, p. 38. April, 1902.

TYPE LOCALITY.— Volcan de Chiriqui, Chiriqui, Panama. Altitude, 10,300 feet.

98. **Reithrodontomys chrysopsis tolucae** Merriam.
 1901. *Reithrodontomys chrysopsis tolucae* MERRIAM, Proc. Washington acad. sci., III, p. 549. November 29, 1901.
 TYPE LOCALITY.— North slope of Volcan Toluca, State of Mexico, Mexico. Altitude, 11,500 feet.
99. **Reithrodontomys colimae** Merriam.
 1901. *Reithrodontomys colimae* MERRIAM, Proc. Washington acad. sci., III, p. 551. November 29, 1901.
 TYPE LOCALITY.— Near timberline, Sierra Nevada de Colima, State of Jalisco, Mexico. Altitude, 12,000 feet.
100. **Reithrodontomys colimae nerterus** Merriam.
 1901. *Reithrodontomys colimae nerterus* MERRIAM, Proc. Washington acad. sci., III, p. 551. November 29, 1901.
 TYPE LOCALITY.— Foothill region of Sierra Nevada de Colima, State of Jalisco, Mexico. Altitude, 6500 feet.
101. **Reithrodontomys costaricensis jalapae** Merriam.
 1901. *Reithrodontomys costaricensis jalapae* MERRIAM, Proc. Washington acad. sci., III, p. 552. November 29, 1901.
 TYPE LOCALITY.— Jalapa, State of Vera Cruz, Mexico. Altitude, 4000 feet.
102. **Reithrodontomys creper** Bangs.
 1902. *Reithrodontomys creper* BANGS, Bull. mus. comp. zool., XXXIX, p. 39. April, 1902.
 TYPE LOCALITY.— Volcan de Chiriqui, Chiriqui, Panama. Altitude, 11,000 feet.
103. **Reithrodontomys difficilis** Merriam.
 1901. *Reithrodontomys difficilis* MERRIAM, Proc. Washington acad. sci., III, p. 556. November 29, 1901.
 TYPE LOCALITY.— Orizaba, State of Vera Cruz, Mexico. Altitude, 4500 feet.
104. **Reithrodontomys dorsalis** Merriam.
 1901. *Reithrodontomys dorsalis* MERRIAM, Proc. Washington acad. sci., III, p. 557. November 29, 1901.
 TYPE LOCALITY.— Cabel, Guatemala.

105. **Reithrodontomys goldmani** Merriam.
 1901. *Reithrodontomys goldmani* MERRIAM, Proc. Washington acad. sci., III, p. 552. November 29, 1901.
 TYPE LOCALITY.—Metlatoyuca, State of Puebla, Mexico. Altitude, 800 feet.
106. **Reithrodontomys griseoflavus** Merriam.
 1901. *Reithrodontomys griseoflavus* MERRIAM, Proc. Washington acad. sci., III, p. 553. November 29, 1901.
 TYPE LOCALITY.—Ameca, State of Jalisco, Mexico. Altitude, 4000 feet.
107. **Reithrodontomys griseoflavus helvolus** Merriam.
 1901. *Reithrodontomys griseoflavus helvolus* MERRIAM, Proc. Washington acad. sci., III, p. 554. November 29, 1901.
 TYPE LOCALITY.—Oaxaca City, State of Oaxaca, Mexico.
108. **Reithrodontomys hirsutus** Merriam.
 1901. *Reithrodontomys hirsutus* MERRIAM, Proc. Washington acad. sci., III, p. 553. November 29, 1901.
 TYPE LOCALITY.—Ameca, State of Jalisco, Mexico. Altitude, 5500 feet.
109. **Reithrodontomys levipes** Merriam.
 1901. *Reithrodontomys levipes* MERRIAM, Proc. Washington acad. sci., III, p. 554. November 29, 1901.
 TYPE LOCALITY.—San Sebastian, State of Jalisco, Mexico. Altitude, 3000 feet.
110. **Reithrodontomys levipes otus** Merriam.
 1901. *Reithrodontomys levipes otus* MERRIAM, Proc. Washington acad. sci., III, p. 555. November 29, 1901.
 TYPE LOCALITY.—Foothill region of Sierra Nevada de Colima, State of Jalisco, Mexico. Altitude, 6500 feet.
111. **Reithrodontomys levipes toltecus** Merriam.
 1901. *Reithrodontomys levipes toltecus* MERRIAM, Proc. Washington acad. sci., III, p. 555. November 29, 1901.
 TYPE LOCALITY.—Tlalpam, Federal District, Mexico.
112. **Reithrodontomys megalotis obscurus** Merriam.
 1901. *Reithrodontomys megalotis obscurus* MERRIAM, Proc. Washington acad. sci., III, p. 558. November 29, 1901.

TYPE LOCALITY.—Sierra Madre, near Guadalupe y Calvo, State of Chihuahua, Mexico.

113. **Reithrodontomys megalotis zacatecae** Merriam.
1901. *Reithrodontomys megalotis zacatecae* MERRIAM, Proc. Washington acad. sci., III, p. 557. November 29, 1901.
TYPE LOCALITY.—Valparaiso Mountains, State of Zacatecas, Mexico.
114. **Reithrodontomys microdon** Merriam.
1901. *Reithrodontomys microdon* MERRIAM, Proc. Washington acad. sci., III, p. 548. November 29, 1901.
TYPE LOCALITY.—Todos Santos, Guatemala. Altitude, 10,000 feet.
115. **Reithrodontomys microdon albilabris** Merriam.
1901. *Reithrodontomys microdon albilabris* MERRIAM, Proc. Washington acad. sci., III, p. 549. November 29, 1901.
TYPE LOCALITY.—Cerro San Felipe, State of Oaxaca, Mexico. Altitude, 10,000 feet.
116. **Reithrodontomys orizabae** Merriam.
1901. *Reithrodontomys orizabae* MERRIAM, Proc. Washington acad. sci., III, p. 550. November 29, 1901.
TYPE LOCALITY.—Mount Orizaba, State of Puebla, Mexico. Altitude, 9500 feet.
117. **Reithrodontomys perotensis** Merriam.
1901. *Reithrodontomys perotensis* MERRIAM, Proc. Washington acad. sci., III, p. 550. November 29, 1901.
TYPE LOCALITY.—Cofre de Perote, State of Vera Cruz, Mexico. Altitude, 9500 feet.
118. **Reithrodontomys saturatus alticola** Merriam.
1901. *Reithrodontomys saturatus alticolus* MERRIAM, Proc. Washington acad. sci., III, p. 556. November 29, 1901.
TYPE LOCALITY.—Cerro San Felipe, near Oaxaca, State of Oaxaca, Mexico. Altitude, 10,000 feet.
119. **Reithrodontomys saturatus cinereus** Merriam.
1901. *Reithrodontomys saturatus cinereus* MERRIAM, Proc. Washington acad. sci., III, p. 556. November 29, 1901.
TYPE LOCALITY.—Chalchicomula, State of Puebla, Mexico.

120. **Reithrodontomys tenuirostris** Merriam.
1901. *Reithrodontomys tenuirostris* MERRIAM, Proc. Wash-
ington acad. sci., III, p. 547. November 29, 1901.
TYPE LOCALITY.— Todos Santos, Guatemala. Altitude, 10,000
feet.
121. **Reithrodontomys tenuirostris aureus** Merriam.
1901. *Reithrodontomys tenuirostris aureus* MERRIAM, Proc.
Washington acad. sci., III, p. 548. November 29, 1901.
TYPE LOCALITY.— Calel, Guatemala. Altitude, 10,200 feet.

Genus **AKODON** Meyen.

122. **Akodon teguina apricus** Bangs.
1902. *Akodon teguina apricus* BANGS, Bull. mus. comp. zool.,
XXXIX, p. 40. April, 1902.
TYPE LOCALITY.— Boquete, Chiriqui, Panama. Altitude, 4000
feet.
123. **Akodon xerampelinus** Bangs.
1902. *Akodon xerampelinus* BANGS, Bull. mus. comp. zool.,
XXXIX, p. 41. April, 1902.
TYPE LOCALITY.— Volcan de Chiriqui, Chiriqui, Panama.
Altitude, 10,300 feet.

Genus **PHENACOMYS** Merriam.

124. **Phenacomys albipes** Merriam.
1901. *Phenacomys albipes* MERRIAM, Proc. biol. soc. Wash-
ington, XIV, p. 125. July 19, 1901.
TYPE LOCALITY.— Redwoods, near Arcata, Humboldt Bay,
Humboldt County, California.
125. **Phenacomys mackenzii** Preble.
1902. *Phenacomys mackenzii* PREBLE, Proc. biol. soc. Wash-
ington, XV, p. 182. August 6, 1902.
TYPE LOCALITY.— Fort Smith, Slave River, near the Atha-
basca-Mackenzie boundary line, Canada.

Genus **MICROTUS** Schrank.

126. **Microtus aphorodemus** Preble.
 1902. *Microtus aphorodemus* PREBLE, North Amer. fauna, no. 22, p. 52. October 31, 1902.
 TYPE LOCALITY.—Barren grounds about 50 miles south of Cape Eskimo, near mouth of Thlewiaza River, Keewatin, Canada.
127. **Microtus pennsylvanicus shattucki** Howe.
 1901. *Microtus pennsylvanicus shattucki* HOWE, Proc. Portland soc. nat. hist., II, p. 201. December 31, 1901.
 TYPE LOCALITY.—Tumble Down Dick Island, near Long Island, Penobscot Bay, Maine.
128. **Microtus mexicanus guadalupensis** Bailey.
 1902. *Microtus mexicanus guadalupensis* BAILEY, Proc. biol. soc. Washington, xv, p. 118. June 2, 1902.
 TYPE LOCALITY.—Guadalupe Mountains, El Paso County, Texas. Altitude, 7800 feet.
129. **Microtus miurus** Osgood.
 1901. *Microtus miurus* OSGOOD, North Amer. fauna, no. 21, p. 64. September 26, 1901.
 TYPE LOCALITY.—Head of Bear Creek, in mountains near Hope City, Turnagain Arm, Cook Inlet, Alaska.

Genus **FIBER** Cuvier.

130. **Fiber zibethicus hudsonius** Preble.
 1902. *Fiber zibethicus hudsonius* PREBLE, North Amer. fauna, no. 22, p. 53. October 31, 1902.
 TYPE LOCALITY.—Fort Churchill, Keewatin, Canada.
131. **Fiber zibethicus ripensis** Bailey.
 1902. *Fiber zibethicus ripensis* BAILEY, Proc. biol. soc. Washington, xv, p. 119. June 2, 1902.
 TYPE LOCALITY.—Pecos River at Carlsbad, formerly Eddy, Eddy County, New Mexico.

Genus **SYNAPTOMYS** Baird.

132. **Synaptomys bullatus** Preble.

1902. *Synaptomys (Mictomys) bullatus* PREBLE, Proc. biol. soc. Washington, xv, p. 181. August 6, 1902.

TYPE LOCALITY.—Trout Rock, near Fort Rae, Great Slave Lake, Mackenzie, Canada.

Family **GEOMYIDAE**.

Genus **PLATYGEOMYS** Merriam.

133. **Platygeomys neglectus** Merriam.

1902. *Platygeomys neglectus* MERRIAM, Proc. biol. soc. Washington, xv, p. 68. March 22, 1902.

TYPE LOCALITY.—Cerro de la Calentura, about 8 miles northwest of Pinal de Amoles, State of Queretaro, Mexico. Altitude, 9000 feet.

Genus **MACROGEOMYS** Merriam.

134. **Macrogeomys cavator** Bangs.

1902. *Macrogeomys cavator* BANGS, Bull. mus. comp. zool., xxxix, p. 42. April, 1902.

TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 4800 feet.

135. **Macrogeomys pansa** Bangs.

1902. *Macrogeomys pansa* BANGS, Bull. mus. comp. zool., xxxix, p. 44. April, 1902.

TYPE LOCALITY.—Bogaba, Chiriqui, Panama. Altitude, 600 feet.

Genus **THOMOMYS** Wied.

136. **Thomomys angularis pascalis** Merriam.

1901. *Thomomys angularis pascalis* MERRIAM, Proc. biol. soc. Washington, xiv, p. 111. July 19, 1901.

TYPE LOCALITY.—Fresno, San Joaquin Valley, Fresno County, California.

137. **Thomomys aureus lachuguilla** Bailey.
1902. *Thomomys aureus lachuguilla* BAILEY, Proc. biol. soc. Washington, xv, p. 120. June 2, 1902.
TYPE LOCALITY.—Arid foothills near El Paso, El Paso County, Texas.
138. **Thomomys aureus perpes** Merriam.
1901. *Thomomys aureus perpes* MERRIAM, Proc. biol. soc. Washington, xiv, p. 111. July 19, 1901.
TYPE LOCALITY.—Lone Pine, Owens Valley, Inyo County, California.
139. **Thomomys aureus pervagus** Merriam.
1901. *Thomomys aureus pervagus* MERRIAM, Proc. biol. soc. Washington, xiv, p. 110. July 19, 1901.
TYPE LOCALITY.—Espanola, Santa Fé County, New Mexico.
140. **Thomomys baileyi** Merriam.
1901. *Thomomys baileyi* MERRIAM, Proc. biol. soc. Washington, xiv, p. 109. July 19, 1901.
TYPE LOCALITY.—Sierra Blanca, El Paso County, Texas.
141. **Thomomys bridgeri** Merriam.
1901. *Thomomys bridgeri* MERRIAM, Proc. biol. soc. Washington, xiv, p. 113. July 19, 1901.
TYPE LOCALITY.—Fort Bridger, Uinta County, Wyoming.
142. **Thomomys cabezonae** Merriam.
1901. *Thomomys cabezonae* MERRIAM, Proc. biol. soc. Washington, xiv, p. 110. July 19, 1901.
TYPE LOCALITY.—Cabezon, San Gorgonio Pass, Riverside County, California.
143. **Thomomys clusius ocius** Merriam.
1901. *Thomomys clusius ocius* MERRIAM, Proc. biol. soc. Washington, xiv, p. 114. July 19, 1901.
TYPE LOCALITY.—Fort Bridger, Uinta County, Wyoming.
144. **Thomomys desertorum** Merriam.
1901. *Thomomys desertorum* MERRIAM, Proc. biol. soc. Washington, xiv, p. 114. July 19, 1901.

TYPE LOCALITY.—Mud Spring, Detrital Valley, Mohave County, Arizona.

145. **Thomomys douglasii oregonus** Merriam.
 1901. *Thomomys douglasii oregonus* MERRIAM, Proc. biol. soc. Washington, xiv, p. 115. July 19, 1901.
 TYPE LOCALITY.—Oregon City, Willamette Valley, Clackamas County, Oregon.
146. **Thomomys fulvus texensis** Bailey.
 1902. *Thomomys fulvus texensis* BAILEY, Proc. biol. soc. Washington, xv, p. 119. June 2, 1902.
 TYPE LOCALITY.—Head of Limpia Creek, at 5500 feet altitude, Davis Mountains, Jeff Davis County, Texas.
147. **Thomomys fuscus fisheri** Merriam.
 1901. *Thomomys fuscus fisheri* MERRIAM, Proc. biol. soc. Washington, xiv, p. 111. July 19, 1901.
 TYPE LOCALITY.—Beckwith, Sierra Valley, Plumas County, California.
148. **Thomomys goldmani** Merriam.
 1901. *Thomomys goldmani* MERRIAM, Proc. biol. soc. Washington, xiv, p. 108. July 19, 1901.
 TYPE LOCALITY.—Mapimi, State of Durango, Mexico.
149. **Thomomys hesperus** Merriam.
 1901. *Thomomys hesperus* MERRIAM, Proc. biol. soc. Washington, xiv, p. 116. July 19, 1901.
 TYPE LOCALITY.—Tillamook, Tillamook County, Oregon.
150. **Thomomys idahoensis** Merriam.
 1901. *Thomomys idahoensis* MERRIAM, Proc. biol. soc. Washington, xiv, p. 114. July 19, 1901.
 TYPE LOCALITY.—Birch Creek, Fremont County, Idaho.
151. **Thomomys latirostris** Merriam.
 1901. *Thomomys latirostris* MERRIAM, Proc. biol. soc. Washington, xiv, p. 107. July 19, 1901.
 TYPE LOCALITY.—Little Colorado River, Painted Desert, Coconino County, Arizona.

152. **Thomomys leucodon navus** Merriam.
 1901. *Thomomys leucodon navus* MERRIAM, Proc. biol. soc. Washington, xiv, p. 112. July 19, 1901.
 TYPE LOCALITY.—Red Bluff, Tehama County, California.
153. **Thomomys limosus** Merriam.
 1901. *Thomomys limosus* MERRIAM, Proc. biol. soc. Washington, xiv, p. 116. July 19, 1901.
 TYPE LOCALITY.—White Salmon, Gorge of the Columbia, Klickitat County, Washington.
154. **Thomomys myops** Merriam.
 1901. *Thomomys myops* MERRIAM, Proc. biol. soc. Washington, xiv, p. 112. July 19, 1901.
 TYPE LOCALITY.—Conconully, east base of Cascade Range, Okanogan County, Washington.
155. **Thomomys nelsoni** Merriam.
 1901. *Thomomys nelsoni* MERRIAM, Proc. biol. soc. Washington, xiv, p. 109. July 19, 1901.
 TYPE LOCALITY.—Parral, State of Chihuahua, Mexico.
156. **Thomomys niger** Merriam.
 1901. *Thomomys niger* MERRIAM, Proc. biol. soc. Washington, xiv, p. 117. July 19, 1901.
 TYPE LOCALITY.—Seaton, near mouth of Umpqua River, Douglas County, Oregon.
157. **Thomomys perditus** Merriam.
 1901. *Thomomys perditus* MERRIAM, Proc. biol. soc. Washington, xiv, p. 108. July 19, 1901.
 TYPE LOCALITY.—Lampazos, State of Nuevo Leon, Mexico.
158. **Thomomys pygmaeus** Merriam.
 1901. *Thomomys pygmaeus* MERRIAM, Proc. biol. soc. Washington, xiv, p. 115. July 19, 1901.
 TYPE LOCALITY.—Montpelier Creek, Bear County, Idaho. Altitude, 6700 feet.
159. **Thomomys sinaloae** Merriam.
 1901. *Thomomys sinaloae* MERRIAM, Proc. biol. soc. Washington, xiv, p. 108. July 19, 1901.
 TYPE LOCALITY.—Altata, State of Sinaloa, Mexico.

160. **Thomomys uinta** Merriam.

1901. *Thomomys uinta* MERRIAM, Proc. biol. soc. Washington, XIV, p. 112. July 19, 1901.

TYPE LOCALITY.— Uinta Mountains, Summit County, Utah. Altitude, 10,000 feet.

Family **HETEROMYIDAE**.

Genus **MICRODIPODOPS** Merriam.

161. **Microdipodops californicus** Merriam.

1901. *Microdipodops californicus* MERRIAM, Proc. biol. soc. Washington, XIV, p. 128. July 19, 1901.

TYPE LOCALITY.— Sierra Valley, near Vinton, Plumas County, California.

162. **Microdipodops megacephalus oregonus** Merriam.

1901. *Microdipodops megacephalus oregonus* MERRIAM, Proc. biol. soc. Washington, XIV, p. 127. July 19, 1901.

TYPE LOCALITY.— Lake Alvord, Alvord Desert, Harney County, Oregon.

163. **Microdipodops pallidus** Merriam.

1901. *Microdipodops pallidus* MERRIAM, Proc. biol. soc. Washington, XIV, p. 127. July 19, 1901.

TYPE LOCALITY.— Ten miles east of Stillwater, near sink of the Humboldt and Carson, Churchill County, Nevada.

Genus **PEROGNATHUS** Wied.

164. **Perognathus fallax pallidus** Mearns.

1901. *Perognathus fallax pallidus* MEARN'S, Proc. biol. soc. Washington, XIV, p. 135. August 9, 1901.

TYPE LOCALITY.— Mountain Spring, half-way up the east slope of the Coast Range Mountains, on the Mexican Boundary Line, San Diego County, California.

Genus **HETEROMYS** Desmarest.

165. **Heteromys annectens** Merriam.
1902. *Heteromys annectens* MERRIAM, Proc. biol. soc. Washington, xv, p. 43. March 5, 1902.
TYPE LOCALITY.—Pluma, State of Oaxaca, Mexico.
166. **Heteromys goldmani** Merriam.
1902. *Heteromys goldmani* MERRIAM, Proc. biol. soc. Washington, xv, p. 41. March 5, 1902.
TYPE LOCALITY.—Chicharras, State of Chiapas, Mexico.
167. **Heteromys goldmani lepturus** Merriam.
1902. *Heteromys goldmani lepturus* MERRIAM, Proc. biol. soc. Washington, xv, p. 42. March 5, 1902.
TYPE LOCALITY.—Mountains near Santo Domingo, State of Oaxaca, Mexico.
168. **Heteromys griseus** Merriam.
1902. *Heteromys griseus* MERRIAM, Proc. biol. soc. Washington, xv, p. 42. March 5, 1902.
TYPE LOCALITY.—Mountains near Tonalá, State of Chiapas, Mexico.
169. **Heteromys repens** Bangs.
1902. *Heteromys repens* BANGS, Bull. mus. comp. zool., xxxix, p. 45. April, 1902.
TYPE LOCALITY.—Boquete, Chiriqui, Panama. Altitude, 4000 feet.

Subgenus **XYLOMYS** Merriam.

1902. *Xylomys* MERRIAM, Proc. biol. soc. Washington, xv, p. 43. March 5, 1902. Type.—*Heteromys (Xylomys) nelsoni* MERRIAM.
170. **Heteromys nelsoni** Merriam.
1902. *Heteromys (Xylomys) nelsoni* MERRIAM, Proc. biol. soc. Washington, xv, p. 43. March 5, 1902.
TYPE LOCALITY.—Pinabete, State of Chiapas, Mexico.

Genus **LIOMYS** Merriam.

1902. *Liomys* MERRIAM, Proc. biol. soc. Washington, xv, p. 44. March 5, 1902. Type.—*Heteromys alleni* COUES.

Heteromys alleni Coues, p. 164, becomes:

Liomys alleni (Coues).

1902. [*Liomys*] *alleni* MERRIAM, Proc. biol. soc. Washington, xv, p. 44. March 5, 1902.

171. **Liomys canus** Merriam.

1902. *Liomys canus* MERRIAM, Proc. biol. soc. Washington, xv, p. 44. March 5, 1902.

TYPE LOCALITY.—Parral, State of Chihuahua, Mexico.

172. **Liomys crispus** Merriam.

1902. *Liomys crispus* MERRIAM, Proc. biol. soc. Washington, xv, p. 49. March 5, 1902.

TYPE LOCALITY.—Tonala, State of Chiapas, Mexico.

173. **Liomys crispus setosus** Merriam.

1902. *Liomys crispus setosus* MERRIAM, Proc. biol. soc. Washington, xv, p. 49. March 5, 1902.

TYPE LOCALITY.—Huehuetan, State of Chiapas, Mexico.

174. **Liomys heterothrix** Merriam.

1902. *Liomys heterothrix* MERRIAM, Proc. biol. soc. Washington, xv, p. 50. March 5, 1902.

TYPE LOCALITY.—San Pedro Sula, Honduras.

175. **Liomys obscurus** Merriam.

1902. *Liomys obscurus* MERRIAM, Proc. biol. soc. Washington, xv, p. 48. March 5, 1902.

TYPE LOCALITY.—Carrizal, State of Vera Cruz, Mexico.

176. **Liomys orbitalis** Merriam.

1902. *Liomys orbitalis* MERRIAM, Proc. biol. soc. Washington, xv, p. 48. March 5, 1902.

TYPE LOCALITY.—Catemaco, State of Vera Cruz, Mexico.

177. **Liomys phaeura** Merriam.

1902. *Liomys phaeura* MERRIAM, Proc. biol. soc. Washington, xv, p. 48. March 5, 1902.

TYPE LOCALITY.—Pinotepa, State of Oaxaca, Mexico.

178. ***Liomys pictus isthmius*** Merriam.
1902. *Liomys pictus isthmius* MERRIAM, Proc. biol. soc. Washington, xv, p. 46. March 5, 1902.
TYPE LOCALITY.—Tehuantepec, State of Oaxaca, Mexico.
179. ***Liomys pictus rostratus*** Merriam.
1902. *Liomys pictus rostratus* MERRIAM, Proc. biol. soc. Washington, xv, p. 46. March 5, 1902.
TYPE LOCALITY.—Ometepec, State of Guerrero, Mexico.
180. ***Liomys plantinarenis*** Merriam.
1902. *Liomys plantinarenis* MERRIAM, Proc. biol. soc. Washington, xv, p. 46. March 5, 1902.
TYPE LOCALITY.—Plantinar, State of Jalisco, Mexico.
181. ***Liomys sonorana*** Merriam.
1902. *Liomys sonorana* MERRIAM, Proc. biol. soc. Washington, xv, p. 47. March 5, 1902.
TYPE LOCALITY.—Alamos, State of Sonora, Mexico.
182. ***Liomys texensis*** Merriam.
1902. *Liomys texensis* MERRIAM, Proc. biol. soc. Washington, xv, p. 44. March 5, 1902.
TYPE LOCALITY.—Brownsville, Cameron County, Texas.
183. ***Liomys torridus*** Merriam.
1902. *Liomys torridus* MERRIAM, Proc. biol. soc. Washington, xv, p. 45. March 5, 1902.
TYPE LOCALITY.—Cuicatlan, State of Oaxaca, Mexico.
184. ***Liomys torridus minor*** Merriam.
1902. *Liomys torridus minor* MERRIAM, Proc. biol. soc. Washington, xv, p. 45. March 5, 1902.
TYPE LOCALITY.—Huajuapam, State of Oaxaca, Mexico.
185. ***Liomys veraecrucis*** Merriam.
1902. *Liomys veraecrucis* MERRIAM, Proc. biol. soc. Washington, xv, p. 47. March 5, 1902.
TYPE LOCALITY.—San Andreas Tuxtla, State of Vera Cruz, Mexico.

Subfamily *Zapodinae*, p. 166, is now regarded as:

Family **ZAPODIDAE**.

1901. *Zapodidae* LYON, Proc. U. S. nat. mus., xxiii, p. 666.

The family *Dipodidae* is thus eliminated from the North American fauna.

Family **OCTODONTIDAE**.

Genus **LONCHERES** Illiger.

186. **Loncheres labilis** Bangs.

1901. *Loncheres labilis* BANGS, Amer. nat., xxxv, p. 638.
August, 1901.

TYPE LOCALITY.— San Miguel Island, Panama.

Genus **PROECHIMYS** Allen.

187. **Proechimys burrus** Bangs.

1901. *Proechimys burrus* BANGS, Amer. nat., xxxv, p. 640.
August, 1901.

TYPE LOCALITY.— San Miguel Island, Panama.

188. **Proechimys centralis panamensis** Thomas.

1900. *Proechimys centralis panamensis* THOMAS, Ann. and
mag. nat. hist., 7th ser., v, p. 220. February, 1900.

TYPE LOCALITY.— City of Panama, Panama.

Genus **CAPROMYS** Desmarest.

This genus has been revised by Chapman (Bull. Amer. mus. nat. hist., xiv, p. 313-323, November 12, 1901). The species are arranged as follows:

Capromys pilorides (Say).

Capromys prehensilis Poeppig.

189. **Capromys prehensilis gundlachi** Chapman.
 1901. *Capromys prehensilis gundlachi* CHAPMAN, Bull. Amer. mus. nat. hist., XIV, p. 317. November 12, 1901.
 TYPE LOCALITY.— Nueva Gerona, Isle of Pines, Cuba.
- Capromys melanurus** Poey.
- Capromys brownii** Fischer.
 1830. *C[apromys] brownii* FISCHER, Synopsis mammalium, Addenda, p. 389 (= 589).
 1851. *Capromys brachyurus* HILL, in Gosse, A naturalist's sojourn in Jamaica, p. 471.
 1901. *Capromys brownii* CHAPMAN, Bull. Amer. mus. nat. hist., XIV, p. 320. November 12, 1901.
- Capromys thoracatus** (True).
 1901. *Capromys thoracatus* CHAPMAN, Bull. Amer. mus. nat. hist., XIV, p. 321. November 12, 1901.
- Capromys ingrahami** Allen.
190. **Capromys elegans** Latorre.
 1901. *Capromys elegans* LATORRE, Bol. de la soc. española de hist. nat., Madrid, I, p. 372. December, 1901.
 TYPE LOCALITY.— Unknown; probably Cuba.

Family ERETHIZONTIDAE.

Genus COENDOU Lacépède.

191. **Coendou mexicanum yucataniae** Thomas.
 1902. *Coendou mexicanus yucataniae* THOMAS, Ann. and mag. nat. hist., 7th ser., x, p. 249. September, 1902.
 TYPE LOCALITY.— Yucatan (probably near Izamal).
192. **Coendou rothschildi** Thomas.
 1902. *Coendou rothschildi* THOMAS, Ann. and mag. nat. hist., 7th ser., x, p. 169. August, 1902.
 TYPE LOCALITY.— Sevilla Island, off Chiriqui, Panama.

Family **DASYPROCTIDAE**.

Genus **DASYPROCTA** Illiger.

193. **Dasyprocta callida** Bangs.
1901. *Dasyprocta callida* BANGS, Amer. nat., xxxv, p. 635.
August, 1901.
TYPE LOCALITY.— San Miguel Island, Panama.
194. **Dasyprocta coibae** Thomas.
1902. *Dasyprocta coibae* THOMAS, Novitat. zoologicae, ix, p.
136. April 10, 1902.
TYPE LOCALITY.— Coiba Island, Panama.
195. **Dasyprocta ruatanica** Thomas.
1901. *Dasyprocta ruatanica* THOMAS, Ann. and mag. nat.
hist., 7th ser., viii, p. 272. October, 1901.
TYPE LOCALITY.— Ruatan Island, Bay of Honduras.

Genus **AGOUTI** Lacépède.

196. **Agouti paca virgatus** Bangs.
1902. *Agouti paca virgatus* BANGS, Bull. mus. comp. zool.,
xxxix, p. 47. April, 1902.
TYPE LOCALITY.— Divala, Chiriqui, Panama.

Family **OCHOTONIDAE**.

Genus **OCHOTONA** Link.

197. **Ochotona minimus** (Lord).
1863. *Lagomys minimus* LORD, Proc. zool. soc. London, 1863,
p. 98.
1899. *Ochotona minimus* BANGS, Proc. New England zool.
club, i, p. 39. June 5, 1899.
TYPE LOCALITY.— Summit of the Cascade Mountains, British
Columbia, Canada. Altitude, 7000 feet.

Family **LEPORIDAE**.Genus **LEPUS** Linnaeus.

198. **Lepus arcticus canus** Preble.
 1902. *Lepus arcticus canus* PREBLE, North Amer. fauna, no. 22, p. 59. October 31, 1902.
 TYPE LOCALITY. — Barren grounds near Hubbard Point, about 75 miles north of Fort Churchill, Keewatin, Canada.
199. **Lepus incitatus** Bangs.
 1901. *Lepus (Tupeti) incitatus* BANGS, Amer. nat., xxxv, p. 633. August, 1901.
 TYPE LOCALITY. — San Miguel Island, Panama.
200. **Lepus simplicianus** Miller.
 1902. *Lepus simplicianus* MILLER, Proc. biol. soc. Washington, xv, p. 81. April 25, 1902.
 TYPE LOCALITY. — Brownsville, Cameron County, Texas.

Order PINNIPEDIA.

Family **OTARIIDAE**.Genus **EUMETOPIAS** Gill.

Eumetopias stelleri (Lesson), p. 191, now stands as:

Eumetopias jubata (Schreber).

1776. *Phoca jubata* SCHREBER, Säugthiere, III, p. 300.

1902. *Eumetopias jubata* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 113. March 15, 1902.

TYPE LOCALITY. — North Pacific Ocean.

Genus *Callotaria* Palmer, p. 191. Thomas (Proc. biol. soc. Washington, xv, p. 197, October 10, 1902) follows Jordan and Clark in substituting for this:

Genus **CALLORHINUS** Gray.

1859. *Callorhinus* GRAY, Proc. zool. soc. London, 1859, p. 359 (same type as that of *Callotaria*).

The principle on which this change is made is still under discussion (see Allen, Bull. Amer. mus. nat. hist., xvi, p. 159, July 1, 1902, and Thomas, Proc. biol. soc. Washington, xv, p. 54, June 10, 1902, and p. 197-198, October 10, 1902).

Genus **PHOCA** Linnaeus.

Phoca largha Pallas, p. 194. According to Allen (Bull. Amer. mus. nat. hist., xvi, p. 463-464) it is impossible to determine what animal was originally described under this name. The American seals of late currently known as *Phoca largha* are now divided into four forms:

201. **Phoca ochotensis macrodens** Allen.

1902. *Phoca ochotensis macrodens* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 483. December 12, 1902.

TYPE LOCALITY.—Avatcha Bay, Kamchatka. Range extends eastward to Point Barrow, Alaska.

202. **Phoca richardii** (Gray).

1864. *Halicyon richardii* GRAY, Proc. zool. soc. London, 1864, p. 28.

1902. *Phoca richardii* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 491. December 12, 1902.

TYPE LOCALITY.—Vancouver Island, British Columbia, Canada.

203. **Phoca richardii geronimensis** Allen.

1902. *Phoca richardii geronimensis* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 495. December 12, 1902.

TYPE LOCALITY.—San Geronimo Island, Lower California, Mexico.

204. **Phoca richardii pribilofensis** Allen.

1902. *Phoca richardii pribilofensis* ALLEN, Bull. Amer. mus. nat. hist., xvi, p. 495. December 12, 1902.

TYPE LOCALITY.—Pribilof Islands, Bering Sea.

Order CARNIVORA.

Family FELIDAE.

Genus **FELIS** Linnaeus.

While the species of this genus as a whole have not been revised, the following groups have been monographically treated: jaguars by Mearns (Proc. biol. soc. Washington, xiv, p. 137-143, August 9, 1901), pumas by Merriam (Proc. Washington acad. sci., iii, p. 577-600, December 11, 1901), ocelots by Mearns (Proc. U. S. nat. mus., xxv, p. 237-249, September 17, 1902).

205. **Felis apache** Mearns.

1901. *Felis apache* MEARN'S, Proc. biol. soc. Washington, xiv, p. 150. August 9, 1901.

TYPE LOCALITY.—Matamoras, State of Tamaulipas, Mexico.

206. **Felis bangsi costaricensis** Merriam.

1901. *Felis bangsi costaricensis* MERRIAM, Proc. Washington acad. sci., iii, p. 596. December 11, 1901.

TYPE LOCALITY.—Boquete, Chiriqui, Panama.

207. **Felis cacomitli** Berlandier.

1857. *Felis cacomitli* BERLANDIER, in Baird, Report Mexican boundary survey, ii, mammals, p. 12.

1902. *Felis cacomitli* MEARN'S, Proc. U. S. nat. mus., xxiv, p. 207.

TYPE LOCALITY.—Matamoras, State of Tamaulipas, Mexico.

208. **Felis centralis** Mearns.

1901. *Felis centralis* MEARN'S, Proc. biol. soc. Washington, xiv, p. 139. August 9, 1901.

TYPE LOCALITY.—Talamanca, Costa Rica.

Felis concolor Linnaeus, p. 197. This animal is now known to be confined to South America (see Merriam, Proc. Washington acad. sci., iii, p. 593, December 11, 1901).

209. **Felis costaricensis** Mearns.
 1902. *Felis costaricensis* MEARN'S, Proc. U. S. nat. mus., xxv,
 p. 245. September 17, 1902.
 TYPE LOCALITY.—Talamanca, Costa Rica.
210. **Felis couguar** Kerr.
 1792. *Felis couguar* KERR, Animal kingdom, p. 151.
 1901. *Felis couguar* MERRIAM, Proc. Washington acad. sci.,
 III, p. 582. December 11, 1901.
 TYPE LOCALITY.—Pennsylvania.
211. **Felis fossata** Mearns.
 1901. *Felis fossata* MEARN'S, Proc. biol. soc. Washington,
 XIV, p. 150. August 9, 1901.
 TYPE LOCALITY.—Merida, Yucatan.
212. **Felis hernandesii** (Gray).
 1857. *Leopardus hernandesii* GRAY, Proc. zool. soc. London,
 1857, p. 278.
 1901. *Felis hernandesii* MEARN'S, Proc. biol. soc. Washing-
 ton, XIV, p. 141. August 9, 1901.
 TYPE LOCALITY.—Mazatlan, State of Sinaloa, Mexico.
213. **Felis hernandesii goldmani** Mearns.
 1901. *Felis hernandesii goldmani* MEARN'S, Proc. biol. soc.
 Washington, XIV, p. 142. August 9, 1901.
 TYPE LOCALITY.—Yohatlan, State of Campeche, Mexico.
214. **Felis hippolestes aztecus** Merriam.
 1901. *Felis hippolestes aztecus* MERRIAM, Proc. Washington
 acad. sci., III, p. 592. December 11, 1901.
 TYPE LOCALITY.—Colonia Garcia, State of Chihuahua, Mexico.
215. **Felis limitis** Mearns.
 1901. *Felis limitis* MEARN'S, Proc. biol. soc. Washington,
 XIV, p. 146. August 9, 1901.
 TYPE LOCALITY.—Brownsville, Cameron County, Texas.

Felis onca Linnaeus, p. 198. This animal is now known to be confined to South America, (see Mearns, Proc. biol. soc. Washington, XIV, p. 137, August 9, 1901).

Genus **LYNX** Kerr.216. **Lynx uinta** Merriam.

1902. *Lynx uinta* MERRIAM, Proc. biol. soc. Washington, xv, p. 71. March 22, 1902.

TYPE LOCALITY.—Bridger Pass, south slope of Uinta Mountains, Uinta County, Wyoming.

Family **CANIDAE**.Genus **VULPES** Brisson.

Vulpes lagopus Linnaeus, p. 206, is now known to be restricted to the Old World (see Merriam, Proc. biol. soc. Washington, xv, p. 167-168, August 6, 1902).

217. **Vulpes lagopus innuitus** Merriam.

1902. *Vulpes lagopus innuitus* MERRIAM, Proc. biol. soc. Washington, xv, p. 170. August 6, 1902.

TYPE LOCALITY.—Karogar River, Point Barrow, arctic Alaska.

218. **Vulpes lagopus ungava** Merriam.

1902. *Vulpes lagopus ungava* MERRIAM, Proc. biol. soc. Washington, xv, p. 170. August 6, 1902.

TYPE LOCALITY.—Fort Chimo, Ungava, Labrador.

219. **Vulpes macrotis neomexicanus** Merriam.

1902. *Vulpes macrotis neomexicanus* MERRIAM, Proc. biol. soc. Washington, xv, p. 74. March 22, 1902.

TYPE LOCALITY.—San Andreas Range (about fifty miles north of El Paso, Texas) Donna Ana County, New Mexico.

220. **Vulpes muticus** Merriam.

1902. *Vulpes muticus* MERRIAM, Proc. biol. soc. Washington, xv, p. 74. March 22, 1902.

TYPE LOCALITY.—Tracy, San Joaquin Valley, San Joaquin County, California.

221. **Vulpes pribilofensis** Merriam.

1902. *Vulpes pribilofensis* MERRIAM, Proc. biol. soc. Washington, xv, p. 171. August 6, 1902.

TYPE LOCALITY.—St. George Island, Pribilof Islands, Bering Sea.

222. **Vulpes velox hebes** Merriam.

1902. *Vulpes velox hebes* MERRIAM, Proc. biol. soc. Washington, xv, p. 73. March 22, 1902.

TYPE LOCALITY.—Calgary, Alberta, Canada.

Family **MUSTELIDAE**.

Genus *Mephitis* Cuvier, p. 212. It has been shown by Howell (North Amer. fauna, no. 20, p. 14–15, August 31, 1901, and Proc. biol. soc. Washington, xv, p. 1–9, February 18, 1902), that in accordance with existing rules of nomenclature this name must give place to :

Genus **CHINCHA** Lesson.

1842. *Chincha* LESSON, Nouv. tabl. règne anim., mamm., p. 67. Type.—*Chincha americana* LESSON = *Viverra mephitis* SCHREBER.

The validity of this position is denied by Allen (Bull. Amer. mus. nat. hist., xiv, p. 325–334, November 12, 1901, and Proc. biol. soc. Washington, xv, p. 59–66, March 22, 1902). A rule recommended by Allen, Howell, and others (Science, n. s., xvi, p. 114–115, July 18, 1902), but not yet incorporated in any code of nomenclature, would, if adopted, result in the retention of the name *Mephitis* as commonly used prior to 1901.

This genus has been revised by Howell (North Amer. fauna, no. 20, August 31, 1901). The species stand as follows :

Subgenus **CHINCHA**.

Chincha mephitis (Schreber).

1776. *Viverra mephitis* SCHREBER, Säugthiere, III, p. 444.

1792. *Viverra mephitica* SHAW, Museum Leverianum, p. 171 (part).

1895. *Mephitis mephitis* BANGS, Proc. Boston soc. nat. hist. xxvi, p. 533. July 31, 1895.

1901. *Chincha mephitis* HOWELL, North Amer. fauna, no. 20, p. 22. August 31, 1901.

TYPE LOCALITY.—America.

According to Allen (Bull. Amer. mus. nat. hist., xiv, p. 333, November 12, 1901) the proper name for this animal is *Mephitis mephitis* (Shaw).

Chincha hudsonica (Richardson).

1901. *Chincha hudsonica* HOWELL, North Amer. fauna, no. 20, p. 24. August 31, 1901.

223. **Chincha putida** (Boitard).

1842. *Mephitis putida* BOITARD, Jardin des plantes, mamm., p. 147.

1901. *Chincha putida* HOWELL, North Amer. fauna, no. 20, p. 25. August 31, 1901.

TYPE LOCALITY.—New Jersey.

Chincha elongata (Bangs).

1901. *Chincha elongata* HOWELL, North Amer. fauna, no. 20, p. 27. August 31, 1901.

Chincha mesomelas (Lichtenstein).

1832. *Mephitis mesomelas* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. XLV, fig. 2, with accompanying text.

1896. *Mephitis mephitis scrutator* BANGS, Proc. biol. soc. Washington, x, p. 141. December 28, 1896.

TYPE LOCALITY.—Louisiana.

Chincha mesomelas avia (Bangs).

1901. *Chincha mesomelas avia* HOWELL, North Amer. fauna, no. 20, p. 30. August 31, 1901.

Chincha mesomelas varians (Gray).

1837. *Mephitis varians* GRAY, Charlesworth's mag. nat. hist., i, p. 581. November, 1837.

1854. *Mephitis macroura* AUDUBON AND BACHMAN, Quadr. N. Amer., iii, p. 11 (not of Lichtenstein).

1901. *Chincha mesomelas varians* HOWELL, North Amer. fauna, no. 20, p. 31. August 31, 1901.

TYPE LOCALITY.—Texas.

Chincha estor (Merriam).

1901. *Chincha estor* HOWELL, North Amer. fauna, no. 20, p. 32. August 31, 1901.

Chincha occidentalis (Baird).

1901. *Chincha occidentalis* HOWELL, North Amer. fauna, no. 20, p. 34. August 31, 1901.

Chincha occidentalis spissigrada (Bangs).

1898. *Mephitis spissigrada* BANGS, Proc. biol. soc. Washington, XII, p. 31. March 24, 1898.

1899. *Mephitis foetida* ELLIOT, Field Columbian mus., publication 32, zool. ser., I, p. 269. March, 1899.

1901. *Chincha occidentalis spissigrada* HOWELL, North Amer. fauna, no. 20, p. 35. August 31, 1901.

224. **Chincha occidentalis notata** Howell.

1901. *Chincha occidentalis notata* HOWELL, North Amer. fauna, no. 20, p. 36. August 31, 1901.

TYPE LOCALITY.—Trout Lake, south base of Mount Adams, Skamania County, Washington.

225. **Chincha occidentalis major** Howell.

1901. *Chincha occidentalis major* HOWELL, North Amer. fauna, no. 20, p. 37. August 31, 1901.

TYPE LOCALITY.—Fort Klamath, Klamath County, Oregon. Altitude, 4200 feet.

Chincha occidentalis holzneri (Mearns).

1901. *Chincha occidentalis holzneri* HOWELL, North Amer. fauna, no. 20, p. 38. August 31, 1901.

226. **Chincha platyrhina** Howell.

1901. *Chincha platyrhina* HOWELL, North Amer. fauna, no. 20, p. 39. August 31, 1901.

TYPE LOCALITY.—South fork of Kern River, 25 miles east of Kernville, Kern County, California.

Subgenus *LEUCOMITRA* Howell.

1901. *Leucomitra* HOWELL, North Amer. fauna, no. 20, p. 39. August 31, 1901. Type.—*Mephitis macroura* LICHTENSTEIN.

Chincha macroura (Lichtenstein).

1901. *Chincha macroura* HOWELL, North Amer. fauna, no. 20, p. 41. August 31, 1901.

Chincha macroura milleri (Mearns).

1901. *Chincha macroura milleri* HOWELL, North Amer. fauna, no. 20, p. 42. August 31, 1901.

227. **Chincha macroura vittata** (Lichtenstein).

1832. *Mephitis vittata* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. XLVII, with accompanying text.

1901. *Chincha macroura vittata* HOWELL, North Amer. fauna, no. 20, p. 43. August 31, 1901.

TYPE LOCALITY.—San Mateo del Mar, State of Oaxaca, Mexico.

Genus *Spilogale* Gray, p. 214. It has been shown by Howell (North Amer. fauna, no. 20, p. 9–10 and 14, August 31, 1901, and Proc. biol. soc. Washington, xv, p. 1–9, February 18, 1902) that in accordance with existing rules of nomenclature this name must give place to:

Genus **MEPHITIS** Cuvier.

1800. *Mephitis* CUVIER, Leçons d'anat. comp., i, tabl. 1 (described but not named in 1798, Tabl. élém. de l'hist. nat. des anim., p. 116). Type.—By elimination, *Viverra putorius* LINNAEUS.

The validity of this position is denied by Allen (Bull. Amer. mus. nat. hist., xiv, p. 325–334, November 12, 1901, and Proc. biol. soc. Washington, xv, p. 59–66, March 22, 1902). A rule recommended by Allen, Howell, and others (Science, n. s., xvi, p.

114–115, July 18, 1902) but not yet incorporated in any code of nomenclature, would, if adopted, result in the retention of the name *Spilogale* for this genus.

228. **Spilogale angustifrons** Howell.

1902. *Spilogale angustifrons* HOWELL, Proc. biol. soc. Washington, xv, p. 242. December 16, 1902.

TYPE LOCALITY.—Tlalpam, Federal District, Mexico.

229. **Spilogale angustifrons tropicalis** Howell.

1902. *Spilogale angustifrons tropicalis* HOWELL, Proc. biol. soc. Washington, xv, p. 242. December 16, 1902.

TYPE LOCALITY.—San Mateo del Mar, State of Oaxaca, Mexico.

230. **Spilogale tenuis** Howell.

1902. *Spilogale tenuis* HOWELL, Proc. biol. soc. Washington, xv, p. 241. December 16, 1902.

TYPE LOCALITY.—Arkins, Larimer County, Colorado.

Genus **CONEPATUS** Gray.

Subgenus **ORYCTOGALE** Merriam.

1902. *Oryctogale* MERRIAM, Proc. biol. soc. Washington, xv, p. 161. August 6, 1902. Type. — *Mephitis leuconota* LICHTENSTEIN.

231. **Conepatus filipensis** Merriam.

1902. *Conepatus filipensis* MERRIAM, Proc. biol. soc. Washington, xv, p. 163. August 6, 1902.

TYPE LOCALITY.—Cerro San Felipe, State of Oaxaca, Mexico. Altitude, 10,000 feet.

232. **Conepatus leuconotus** (Lichtenstein).

1834. *Mephitis leuconota* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. XLIV, fig. 1.

1902. *Conepatus leuconotus* MERRIAM, Proc. biol. soc. Washington, xv, p. 161. August 6, 1902.

TYPE LOCALITY.—Upper waters of the Rio Alvarado, State of Vera Cruz, Mexico.

233. ***Conepatus leuconotus texensis*** Merriam.
 1902. *Conepatus leuconotus texensis* MERRIAM, Proc. biol. soc. Washington, xv, p. 162. August 6, 1902.
 TYPE LOCALITY.—Brownsville, Cameron County, Texas.
234. ***Conepatus mesoleucus*** (Lichtenstein).
 1834. *Mephitis mesoleuca* LICHTENSTEIN, Darstellung neuer oder wenig bekannter Säugethiere, pl. XLIV, fig. 2.
 1902. [*Conepatus*] *mesoleucus* MERRIAM, Proc. biol. soc. Washington, xv, p. 163. August 6, 1902.
 TYPE LOCALITY.—Chico, State of Vera Cruz, Mexico.
235. ***Conepatus mesoleucus mearnsi*** Merriam.
 1902. *Conepatus mesoleucus mearnsi* MERRIAM, Proc. biol. soc. Washington, xv, p. 163. August 6, 1902.
 TYPE LOCALITY.—Mason, Mason County, Texas.
236. ***Conepatus pediculus*** Merriam.
 1902. *Conepatus pediculus* MERRIAM, Proc. biol. soc. Washington, xv, p. 164. August 6, 1902.
 TYPE LOCALITY.—Sierra Guadalupe, State of Coahuila, Mexico.
237. ***Conepatus sonoriensis*** Merriam.
 1902. *Conepatus sonoriensis* MERRIAM, Proc. biol. soc. Washington, xv, p. 162. August 6, 1902.
 TYPE LOCALITY.—Camoá, Rio Mayo, State of Sonora, Mexico.

Subgenus MARPUTIUS Gray.

1837. *Marputius* GRAY, Mag. nat. hist., n. s., i, p. 581.
 1902. *Marputius* MERRIAM, Proc. biol. soc. Washington, xv, p. 164. August 6, 1902.
 Type.—*Mephitis chilensis* GEOFFROY.
238. ***Conepatus tropicalis*** Merriam.
 1902. *Conepatus tropicalis* MERRIAM, Proc. biol. soc. Washington, xv, p. 164. August 6, 1902.
 TYPE LOCALITY.—Motzorongo, State of Vera Cruz, Mexico.

Genus *Galictis* Bell, p. 218. This name is antedated by:

Genus **GRISON** Oken.

1816. *Grison* OKEN, Lehrbuch der Zoologie, II, p. 1000.

1902. *Grison* ALLEN, Bull. Amer. Mus. Nat. Hist., XVI, p. 377.

October 11, 1902.

Type.—*Viverra vittata* SCHREBER.

239. **Grison canaster** (Nelson).

1901. *Galictis canaster* NELSON, Proc. Biol. Soc. Washington, XIV, p. 129. August 9, 1901.

TYPE LOCALITY.—Tunkas, Yucatan.

For remarks see Nehring (Sitzungsber. der Gesellsch. naturforsch. Freunde zu Berlin, 1901, p. 209–216).

Subgenus *Galera* Gray, p. 219. This should stand as:

Genus **TAYRA** Oken.

1816. *Tayra* OKEN, Lehrbuch der Zoologie, II, p. 1001.

1902. *Tayra* ALLEN, Bull. Amer. Mus. Nat. Hist., XVI, p. 377.

October 11, 1902.

Type.—*Mustela barbara* LINNAEUS.

For note on the generic distinctness of this group see Thomas (Ann. and Mag. Nat. Hist., 7th ser., VII, p. 180, February, 1901).

Genus **PUTORIUS** Cuvier.

240. **Putorius vison lacustris** (Preble).

1902. *Lutreola vison lacustris* PREBLE, North Amer. Fauna, no. 22, p. 66. October 31, 1902.

TYPE LOCALITY.—Echimamish River, near Painted Stone, Keewatin, Canada.

241. **Putorius allegheniensis** Rhoads.

1901. *Putorius allegheniensis* RHOADS, Proc. Acad. Nat. Sci. Phila., 1900, p. 751. February 9, 1901.

TYPE LOCALITY.—Beallsville, Washington County, Pennsylvania.

242. **Putorius tropicalis perdis** Merriam.
 1902. *Putorius tropicalis perdis* MERRIAM, Proc. biol. soc. Washington, xv, p. 67. March 22, 1902.
 TYPE LOCALITY.—Teapa, State of Tabasco, Mexico.

Genus **MUSTELA** Linnaeus.

This genus (except the forms of *M. pennanti*) has been revised by Rhoads (Proc. acad. nat. sci. Phila., 1902, p. 443-460, September 30, 1902). The species treated stand as follows:

Mustela americana Turton.

Mustela americana brumalis (Bangs).

1902. *Mustela americana brumalis* RHOADS, Proc. acad. nat. sci. Phila., 1902, p. 448. September 30, 1902.

Mustela americana actuosa Osgood.

243. **Mustela americana abieticola** Preble.
 1902. *Mustela americana abieticola* PREBLE, North Amer. fauna, no. 22, p. 68. October 31, 1902.
 TYPE LOCALITY.—Cumberland House, Saskatchewan, Canada.

244. **Mustela americana abietinoides** (Gray).
 1865. [*Martes americana*] var. 1, *abietinoides* GRAY, Proc. zool. soc. London, 1865, p. 106.
 1902. *Mustela americana abietinoides* RHOADS, Proc. acad. nat. sci. Phila., 1902, p. 451. September 30, 1902.
 TYPE LOCALITY.—Rocky Mountains. Assumed by Rhoads to be in "the edge of the humid western slope of the Rocky Mountains somewhere between Kicking Horse Pass and the Columbia River."

Mustela atrata Bangs.

245. **Mustela nesophila** Osgood.
 1901. *Mustela nesophila* OSGOOD, North Amer. fauna, no. 21, p. 33. September 26, 1901.
 TYPE LOCALITY.—Massett, Graham Island, Queen Charlotte Islands, British Columbia, Canada.
 Not mentioned by Rhoads.

Mustela caurina Merriam.

246. **Mustela caurina origenes** Rhoads.

1902. *Mustela caurina origenes* RHOADS, Proc. acad. nat. sci. Phila., 1902, p. 458. September 30, 1902.

TYPE LOCALITY.—Marvine Mountain, Garfield County, Colorado.

Family **PROCYONIDAE**.

Genus **POTOS** Cuvier and Geoffroy.

This genus has been revised by Thomas (Ann. and mag. nat. hist. 7th ser., IX, p. 266–270, April, 1902). The forms which occur, north of South America are :

247. **Potos flavus aztecus** Thomas.

1902. *Potos flavus aztecus* THOMAS, Ann. and mag. nat. hist., 7th ser., IX, p. 266. April, 1902.

TYPE LOCALITY.—Atoyac, State of Vera Cruz, Mexico.

248. **Potos flavus megalotus** (Martin).

1836. *Cercoleptes megalotus* MARTIN, Proc. zool. soc. London, 1836, p. 82.

1902. *Potos flavus megalotus* THOMAS, Ann. and mag. nat. hist., 7th ser., VIII, p. 266. April, 1902.

TYPE LOCALITY.—Unknown. The range of the animal includes Costa Rica and northern Colombia.

Genus **NASUA** Storr.

249. **Nasua narica molaris** Merriam.

1902. *Nasua narica molaris* MERRIAM, Proc. biol. soc. Washington, XV, p. 68. March 22, 1902.

TYPE LOCALITY.—Manzanillo, State of Colima, Mexico.

250. **Nasua nelsoni** Merriam.

1901. *Nasua nelsoni* MERRIAM, Proc. biol. soc. Washington, XIV, p. 100. July 19, 1901.

TYPE LOCALITY.—Cozumel Island, Yucatan.

251. **Nasua thersites** Thomas.
 1901. *Nasua thersites* THOMAS, Ann. and mag. nat. hist., 7th ser., VIII, p. 271. October, 1901.
 TYPE LOCALITY.—Cozumel Island, Yucatan.

Genus **PROCYON** Storr.

252. **Procyon pygmaeus** Merriam.
 1901. *Procyon pygmaeus* MERRIAM, Proc. biol. soc. Washington, XIV, p. 101. July 19, 1901.
 TYPE LOCALITY.—Cozumel Island, Yucatan.

Family **URSIDAE**.

Genus **URSUS** Linnaeus.

253. **Ursus carlottae** Osgood.
 1901. *Ursus (Euarctos) carlottae* OSGOOD, North Amer. fauna, no. 21, p. 30. September 26, 1901.
 TYPE LOCALITY.—Masset, Graham Island, Queen Charlotte Islands, British Columbia, Canada.
254. **Ursus dalli gyas** Merriam.
 1902. *Ursus dalli gyas* MERRIAM, Proc. biol. soc. Washington, XV, p. 78. March 22, 1902.
 TYPE LOCALITY.—Pavlof Bay, Alaska Peninsula, Alaska.
255. **Ursus kidderi** Merriam.
 1902. *Ursus kidderi* MERRIAM, Proc. biol. soc. Washington, XV, p. 78. March 22, 1902.
 TYPE LOCALITY.—Chinitna Bay, Cook Inlet, Alaska.
256. **Ursus merriami** Allen.
 1902. *Ursus merriami* ALLEN, Bull. Amer. mus. nat. hist., XVI, p. 141. April 12, 1902.
 TYPE LOCALITY.—Portage Bay, opposite Port Müller, Alaska Peninsula, Alaska.

According to J. A. Allen (Bull. Amer. mus. nat. hist., XIV, p. 227, July 12, 1902), this is probably the same as *Ursus dalli gyas*.

Order INSECTIVORA.

Family **SORICIDAE**.Genus **SOREX** Linnaeus.

257. **Sorex longicauda elassodon** Osgood.
 1901. *Sorex longicauda elassodon* OSGOOD, North Amer. fauna, no. 21, p. 35. September 26, 1901.
 TYPE LOCALITY.—Cumshewa Inlet, Moresby Island, Queen Charlotte Islands, British Columbia, Canada.
258. **Sorex longicauda prevostensis** Osgood.
 1901. *Sorex longicauda prevostensis* OSGOOD, North Amer. fauna, no. 21, p. 35. September 26, 1901.
 TYPE LOCALITY.—Prevost Island, Queen Charlotte Islands, British Columbia, Canada.
259. **Sorex tenellus lyelli** Merriam.
 1902. *Sorex tenellus lyelli* MERRIAM, Proc. biol. soc. Washington, xv, p. 75. March 22, 1902.
 TYPE LOCALITY.—Mt. Lyell, Tuolumne County, California.
260. **Sorex tenellus myops** Merriam.
 1902. *Sorex tenellus myops* MERRIAM, Proc. biol. soc. Washington, xv, p. 76. March 22, 1902.
 TYPE LOCALITY.—White Mountains, Mono County, California.
- Subgenus *Microsorex* Coues, p. 242, is regarded as a genus by Elliot (Field Columbian mus., publication 45, zool. ser., II, p. 377, March, 1901), but retained as a subgenus by Osgood (North Amer. fauna, no. 21, p. 71, September 26, 1901) and Preble (North Amer. fauna, no. 22, p. 72, October 31, 1902).
261. **Sorex alnorum** Preble.
 1902. *Sorex (Microsorex) alnorum* PREBLE, North Amer. fauna, no. 22, p. 72. October 31, 1902.
 TYPE LOCALITY.—Robinson Portage, Keewatin, Canada.

262. **Sorex eximius** Osgood.

1901. *Sorex* (*Microsorex*) *eximius* OSGOOD, North Amer. fauna, no. 21, p. 71. September 26, 1901.

TYPE LOCALITY.—Tyonek, Cook Inlet, Alaska.

Genus **NEOSOREX** Baird.

Subgenus *Neosorex* Baird, p. 242, is treated as a genus by Elliot (Field Columbian mus., publication 45, zool. ser., II, p. 378, March, 1901), and Preble (North Amer. fauna, no. 22, p. 71, October 31, 1902). The species now stand as follows:

Neosorex palustris (Richardson).

1901. [*Neosorex*] *palustris* ELLIOT, Field Columbian mus., publication 45, zool. ser., II, p. 378. March, 1901.

Neosorex palustris navigator (Baird).

1901. [*Neosorex palustris*] a. *navigator* ELLIOT, Field Columbian mus., publication 45, zool. ser., II, p. 379. March, 1901.

Neosorex palustris alaskanus (Merriam).

1901. [*Neosorex palustris*] b. *alaskanus* ELLIOT, Field Columbian mus., publication 45, zool. ser., II, p. 379. March, 1901.

Neosorex albibarbis Cope.

1901. [*Neosorex*] *albibarbis* ELLIOT, Field Columbian mus., publication 45, zool. ser., II, p. 379. March, 1901.

Neosorex hydrodromus (Dobson).

1901. [*Neosorex*] *hydrodromus* (sic) ELLIOT, Field Columbian mus., publication 45, zool. ser., II, p. 379. March, 1901.

Genus **ATOPHYRAX** Merriam.

Subgenus *Atophyrax* Merriam, p. 243, is treated as a genus by Elliot (Field Columbian mus., publication 45, zool. ser., II, p. 380, March, 1901). The recognized forms are:

Atophyrax bendirii Merriam.

1901. [*Atophyrax*] *bendirii* ELLIOT, Field Columbian mus., publication 45, zool. ser., II, p. 381. March, 1901.

Atophyrax bendirii palmeri (Merriam).

1901. [*Atophyrax bendirii*] a. *palmeri* ELLIOT, Field Columbian mus., publication 45, zool. ser., II, p. 381. March, 1901.

Atophyrax bendirii albiventer (Merriam).

1901. [*Atophyrax bendirii*] b. *albiventer* ELLIOT, Field Columbian mus., publication 45, zool. ser., II, p. 381. March, 1901.

Genus **BLARINA** Gray.

263. **Blarina brevicauda aloga** Bangs.

1902. *Blarina brevicauda aloga* BANGS, Proc. New England zool. club, III, p. 76. March 31, 1902.

TYPE LOCALITY. — West Tisbury, Martha's Vineyard, Massachusetts.

264. **Blarina brevicauda compacta** Bangs.

1902. *Blarina brevicauda compacta* BANGS, Proc. New England zool. club, III, p. 77. March 31, 1902.

TYPE LOCALITY. — Nantucket, Nantucket Island, Massachusetts.

265. **Blarina brevicauda talpoides** (Gapper).

1830. *Sorex talpoides* GAPPER, Zool. journ., v, p. 202.

1902. *Blarina brevicauda talpoides* BANGS, Proc. New England zool. club, III, p. 75. March 31, 1902.

TYPE LOCALITY. — Between York and Lake Simcoe, Ontario, Canada.

266. **Blarina mayensis** Merriam.

1901. *Blarina mayensis* MERRIAM, Proc. Washington acad. sci., III, p. 559. November 29, 1901.

TYPE LOCALITY. — Maya ruin at Chichen-Itza, Yucatan.

Order CHIROPTERA.

Family VESPERTILIONIDAE.

Subfamily VESPERTILIONINAE.

Genus **MYOTIS** Kaup.

267. **Myotis californicus jaliscensis** Menégaux.
 1901. *Myotis californicus jaliscensis*, MENEGAUX, Bull. mus. d'hist. nat., Paris, 1901, p. 321.
 TYPE LOCALITY. — Vicinity of Lake Zacoalco, State of Jalisco, Mexico.
268. **Myotis dominicensis** Miller.
 1902. *Myotis dominicensis* MILLER, Proc. biol. soc. Washington, xv, p. 243. December 16, 1902.
 TYPE LOCALITY.—Island of Dominica, West Indies.
269. **Myotis incautus** (J. A. Allen).
 1896. *Vespertilio incautus* J. A. ALLEN, Bull. Amer. mus. nat. hist., viii, p. 239. November 21, 1896.
 1902. *Myotis incautus* MILLER, Proc. biol. soc. Washington, xv, p. 155. June 20, 1902.
 TYPE LOCALITY. —San Antonio, Bexar County, Texas.
270. **Myotis vivesi** Menegaux.
 1901. *Myotis vivesi* MENEGAUX, Bull. mus. d'hist. nat., Paris, 1901, p. 323.
 TYPE LOCALITY.—Cardonal Island, Archipelago of Salsi Puedes, off east coast of Lower California, Mexico.

Genus **PIPISTRELLUS** Kaup.

271. **Pipistrellus cinnamomeus** Miller.
 1902. *Pipistrellus cinnamomeus* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 390. September 12, 1902.
 TYPE LOCALITY. —Monte Christo, State of Tabasco, Mexico.

Genus *Eptesicus* Rafinesque, p. 260. This has been shown to be indistinguishable from:

Genus **VESPERTILIO** Linnaeus.

1758. *Vespertilio* LINNAEUS, Syst. nat., x ed., i, p. 31.

1901. *Vespertilio* THOMAS, Ann. and mag. nat. hist., 7th ser., VII, p. 462. May, 1901.

Type.—*Vespertilio murinus* LINNAEUS.

272. **Vespertilio fuscus bernardinus** (Rhoads).

1902. *Eptesicus fuscus bernardinus* RHOADS, Proc. acad. nat. sci. Phila., 1901, p. 619. February 6, 1902.

TYPE LOCALITY.—San Bernardino Valley, near San Bernardino, San Bernardino County, California.

273. **Vespertilio fuscus osceola** (Rhoads).

1902. *Eptesicus fuscus osceola* RHOADS, Proc. acad. nat. sci. Phila., 1901, p. 618. February 6, 1902.

TYPE LOCALITY.—Tarpon Springs, Hillsboro County, Florida.

Genus **DASYPTERUS** Peters.

274. **Dasypterus ega panamensis** Thomas.

1901. *Dasypterus ega panamensis* THOMAS, Ann. and mag. nat. hist., 7th ser., VIII, p. 246. September, 1901.

TYPE LOCALITY.—Bogaba, Chiriqui, Panama. Altitude, about 1000 feet.

275. **Dasypterus floridanus** Miller.

1902. *Dasypterus floridanus* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 392. September 12, 1902.

TYPE LOCALITY.—Lake Kissimmee, Osceola County, Florida.

Subfamily ANTROZOINAE.

Genus **ANTROZOUS** H. Allen.

276. **Antrozous minor** Miller.

1902. *Antrozous minor* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 389. September 12, 1902.

TYPE LOCALITY.—Comondu, Lower California, Mexico.

Subfamily *Molossinae*, p. 270. This is now recognized as:

Family **MOLOSSIDAE**.

1902. *Molossidae* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 393. September 12, 1902.

Genus **MOLOSSUS** E. Geoffroy.

277. **Molossus nigricans** Miller.

1902. *Molossus nigricans* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 395. September 12, 1902.

TYPE LOCALITY.—Acajoneta, Territory of Tepic, Mexico.

Genus **PROMOPS** Gervais.

278. **Promops glaucinus** (Wagner).

1843. *Dysopes glaucinus* WAGNER, Wiegmann's Arch. f. Naturg., ix, pt. 1, p. 368.

1900. *P[romops] glaucinus* MILLER, Ann. and mag. nat. hist., 7th ser., vi, p. 470. November, 1900.

TYPE LOCALITY.—Cuyaba, Matto Grosso, Brazil.

Omitted by True, but recorded from Jamaica and Cuba by Dobson (Catal. Chiropt. Brit. mus., p. 418, 1878) and from Central America by Miller (Proc. biol. soc. Washington, xv, p. 250, December 16, 1902).

Nyctinomus orthotis H. Allen, p. 373, now stands as:

Promops orthotis (H. Allen).

1902. *Promops orthotis* MILLER, Proc. biol. soc. Washington, xv, p. 250. December 16, 1902.

Genus **NYCTINOMOPS** Miller.

1902. *Nyctinomops* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 393. September 12, 1902. Type.—*Nyctinomus femorosaccus* MERRIAM.

Nyctinomus depressus Ward, p. 272, *N. femorosaccus* Merriam, p. 272, *N. gracilis* (Wagner), p. 272, and *N. macrotis* Gray, p. 272, now stand respectively as:

Nyctinomops depressus (Ward).

1902. *N[nyctinomops] depressus* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 393. September 12, 1902.

Nyctinomops femorosaccus (Merriam).

1902. *Nyctinomops femorosaccus* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 393. September 12, 1902.

Nyctinomops gracilis (Wagner).

Nyctinomops macrotis (Gray).

1902. *N[nyctinomops] macrotis* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 393. September 12, 1902.

279. **Nyctinomops yucatanicus** Miller.

1902. *Nyctinomops yucatanicus* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 393. September 12, 1902.

TYPE LOCALITY.—Chichen-Itza, Yucatan.

Genus **NYCTINOMUS** E. Geoffroy.

280. **Nyctinomus antillarum** Miller.

1902. *Nyctinomus antillarum* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 398. September 12, 1902.

TYPE LOCALITY.—Roseau, Dominica, West Indies.

281. **Nyctinomus bahamensis** Rehn.

1902. *Nyctinomus bahamensis* REHN, Proc. acad. nat. sci. Phila., 1902, p. 641. December 12, 1902.

TYPE LOCALITY.—Governor's Harbor, Eleuthera Island, Bahamas.

282. **Nyctinomus musculus** Gundlach.

1861. *Nyctinomus musculus* GUNDLACH, Monatsber. k. preuss. Akad. Wissensch., Berlin, 1861, p. 149.

1902. *Nyctinomus musculus* MILLER, Proc. biol. soc. Washington, xv, p. 248. December 16, 1902.

TYPE LOCALITY.—Cuba.

Nyctinomus nevadensis (H. Allen), p. 273, has been shown to be the same as **Nyctinomops depressus** (Ward). See Miller (Proc. biol. soc. Washington, xv, p. 250, December 16, 1902).

Family **NATALIDAE**.

Genus **NATALUS** Gray.

283. **Natalus major** Miller.

1902. *Natalus major* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 398. September 12, 1902.

TYPE LOCALITY.—Near Savaneta, San Domingo, West Indies.

284. **Natalus mexicanus** Miller.

1902. *Natalus mexicanus* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 399. September 12, 1902.

TYPE LOCALITY.—Santa Anita, Lower California, Mexico.

Family **PHYLLOSTOMATIDAE**.

Subfamily *Chilonycterinae*, p. 275. This stands as:

Subfamily **MORMOOPINAE**.

1901. *Mormoopinae* REHN, Proc. acad. nat. sci. Phila., 1901, p. 297. June 8, 1901.

Genus **CHILONYCTERIS** Gray.

285. **Chilonycteris boothi** Gundlach.

1861. *Chilonycteris boothi* GUNDLACH, Monatsber. k. preuss. Akad. Wissensch., Berlin, 1861, p. 154.

1902. *Chilonycteris boothi* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 401. September 12, 1902.

TYPE LOCALITY.—Fun ador, Cuba.

286. **Chilonycteris mexicana** Miller.
 1902. *Chilonycteris mexicana* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 401. September 12, 1902.
 TYPE LOCALITY. — San Blas, Territory of Tepic, Mexico.
287. **Chilonycteris portoricensis** Miller.
 1902. *Chilonycteris portoricensis* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 400. September 12, 1902.
 TYPE LOCALITY. — Cave near Pueblo Viejo, Porto Rico, West Indies.
288. **Chilonycteris psilotis** Dobson.
 1878. *Chilonycteris psilotis* DOBSON, Catal. Chiropt. Brit. mus., p. 451.
 1902. *Chilonycteris psilotis* MILLER, Proc. biol. soc. Washington, xv, p. 249. December 16, 1902.
 TYPE LOCALITY. — Unknown; the second record was based on a specimen from the Isthmus of Tehuantepec, Mexico.

Genus *Pteronotus* Gray, p. 276. As this name is preoccupied by *Pteronotus* Rafinesque, it has been changed to:

Genus **DERMONOTUS** Gill.

1901. *Dermonotus* GILL, Proc. biol. soc. Washington, xiv, p. 177. September 25, 1901.

The species are as follows:

- Dermonotus davyi** (Gray).
 1902. *D[ermonotus] davyi* MILLER, Proc. biol. soc. Washington, xv, p. 155. June 20, 1902.
- Dermonotus fulvus** (Thomas).
 1902. *D[ermonotus] fulvus* MILLER, Proc. biol. soc. Washington, xv, p. 155. June 20, 1902.

Genus **MORMOOPS** Leach.

This genus has been revised by Rehn (Proc. acad. nat. sci. Phila., 1902, p. 160–172, June 11, 1902). The North American forms stand as follows:

- Mormoops blainvillii** Leach.

289. **Mormoops blainvillii cinnamomea** (Gundlach).
 1840. *L[obostoma] cinnamomeum* GUNDLACH, Wiegmann's
 Arch. f. Naturg., vi, pt. 1, p. 357.
 1902. *Mormoops blainvillii cinnamomea* REHN, Proc. acad.
 nat. sci. Phila., 1902, p. 165. June 11, 1902.
 TYPE LOCALITY. — Cafetal San Antonio el Fundador, Cuba.

Mormoops megalophylla Peters.

290. **Mormoops megalophylla senicula** Rehn.
 1902. *Mormoops megalophylla senicula* REHN, Proc. acad.
 nat. sci. Phila., 1902, p. 169. June 11, 1902.
 TYPE LOCALITY. — Fort Clark, Kinney County, Texas.

Subfamily PHYLLOSTOTAMINAE.

Genus **TONATIA** Gray.

1827. *Tonatia* GRAY, Griffith's Cuvier, Animal kingdom, v,
 p. 71, footnote. Type.— *Vampyrus bidens* SPIX.
 291. **Tonatia amblyotis** (Wagner).
 1843. *Phyllostoma amblyotis* WAGNER, Wiegmann's Arch.
 f. Naturg., ix, pt. 1, p. 365.
 1902. *Tonatia amblyotis* THOMAS, Ann. and mag. nat. hist.,
 7th ser., x, p. 54. July, 1902.
 TYPE LOCALITY. — Matto Grosso, Brazil.

Recorded by Thomas from Bogaba, Chiriqui, Panama.

Genus **HEMIDERMA** Gervais.

Hemiderma brevicaudum (Wied), p. 283, becomes :

Hemiderma perspicillatum (Linnaeus).

1758. [*Vespertilio*] *perspicillatum* LINNAEUS, Syst. nat., x
 ed., i, p. 31.
 1901. *Hemiderma perspicillatum* THOMAS, Ann. and mag. nat.
 hist., 7th ser., viii, p. 192. September, 1901.
 TYPE LOCALITY. — Unknown.

Subfamily GLOSSOPHAGINAE.

Genus **GLOSSOPHAGA** E. Geoffroy.

292. **Glossophaga soricina antillarum** Rehn.
1902. *Glossophaga soricina antillarum* REHN, Proc. acad. nat. sci. Phila., 1902, p. 37. April 23, 1902.
TYPE LOCALITY.—Port Antonio, Jamaica, West Indies.

Genus **MONOPHYLLUS** Leach.

293. **Monophyllus cubanus** Miller.
1902. *Monophyllus cubanus* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 410. September 12, 1902.
TYPE LOCALITY.—Baracoa, eastern Cuba.
294. **Monophyllus luciae** Miller.
1902. *Monophyllus luciae* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 411. September 12, 1902.
TYPE LOCALITY.—Island of Santa Lucia, West Indies.

Genus **BRACHYPHYLLA** Gray.

295. **Brachyphylla nana** Miller.
1902. *Brachyphylla nana* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 409. September 12, 1902.
TYPE LOCALITY.—El Guama, Cuba.

Subfamily STENODERMATINAE.

Genus **ARTIBEUS** Leach.

- Dermanura eva* Cope, p. 290. This stands as:
Artibeus eva (Cope).
1901. *Artibeus eva* REHN, Proc. acad. nat. sci. Phila., 1900, p. 758. February 9, 1901.

Artibeus perspicillatus (Linnaeus), p. 289, becomes:

Artibeus jamaicensis Leach.

1822. *Artibeus jamaicensis* LEACH, Trans. Linn. soc. London, XIII, p. 75.

1901. *Artibeus jamaicensis* THOMAS, Ann. and mag. nat. hist., 7th ser., VIII, p. 192. September, 1901.

TYPE LOCALITY.—Jamaica, West Indies.

296. **Artibeus parvipes** Rehn.

1902. *Artibeus parvipes* REHN, Proc. acad. nat. sci. Phila., 1902, p. 639. December 12, 1902.

TYPE LOCALITY.—Santiago de Cuba, Cuba.

Uroderma planirostre (Spix), p. 298. This becomes:

Artibeus planirostris (Spix).

1901. [*Artibeus*] *planirostris* REHN, Proc. acad. nat. sci. Phila., 1900, p. 757. February 9, 1901.

297. **Artibeus watsoni** Thomas.

1901. *Artibeus watsoni* THOMAS, Ann. and mag. nat. hist., 7th ser., VII, p. 542. June, 1901.

TYPE LOCALITY.—Bogaba, Chiriqui, Panama. Altitude, about 1000 feet.

Genus **URODERMA** Peters.

298. **Uroderma convexum** Lyon.

1902. *Uroderma convexum* LYON, Proc. biol. soc. Washington, XV, p. 83. April 25, 1902.

TYPE LOCALITY.—Colon, Panama.

Genus **DERMANURA** Gervais.

299. **Dermanura phaeotis** Miller.

1902. *Dermanura phaeotis* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 405. September 12, 1902.

TYPE LOCALITY.—Chichen-Itza, Yucatan.

300. **Dermanura tolteca** (Saussure).

1860. [*St[enoderma]*] *tolteca* SAUSSURE, Revue et magasin de zoologie, 2d ser., XII, p. 427.

1902. *D[ermanura] tolteca* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 404. September 12, 1902.

TYPE LOCALITY.—Mexico.

Genus **VAMPYROPS** Peters.

301. **Vampyrops helleri** Peters.

1866. *Vampyrops helleri* PETERS, Monatsber. k. preuss. Akad. Wissensch., Berlin, 1866, p. 392.

1901. *Vampyrops helleri* BANGS, Amer. nat., xxxv, p. 664. August, 1901.

TYPE LOCALITY.—Mexico.

Recorded by Bangs from San Miguel Island, Panama (Amer. nat., xxxv, p. 644, August, 1901), and from Chiriqui, Panama (Bull. mus. comp. zool., xxxix, p. 50, April, 1902).

Genus **STENODERMA** E. Geoffroy.

302. **Stenoderma luciae** Miller.

1902. *Stenoderma luciae* MILLER, Proc. acad. nat. sci. Phila., 1902, p. 407. September 12, 1902.

TYPE LOCALITY.—Island of Santa Lucia, West Indies.

Subfamily CENTURIONINAE.

1901. *Centurioninae* REHN, Proc. acad. nat. sci. Phila., 1901, p. 296. June 8, 1901.

Genus **CENTURIO** Gray.

This genus has been revised by Rehn (Proc. acad. nat. sci. Phila., 1901, p. 295–302, June 8, 1901). The species stands as follows:

Centurio senex Gray.

1861. *C[enturio] memurtrii* H. ALLEN, Proc. acad. nat. sci. Phila., 1861, p. 360.

1891. *Centurio minor* WARD, Amer. nat., xxv, p. 750.
August, 1891.
1901. *Centurio senex* REHN, Proc. acad. nat. sci. Phila., 1901,
p. 297. June 8, 1901.

Order PRIMATES.

Family CEBIDAE.

Genus **ALOUATTA** Lacépède.

303. ***Alouatta palliata coibensis*** Thomas.
1902. *Alouatta palliata coibensis* THOMAS, Novitat. zool
ogicae, ix, p. 135. April 10, 1902.
TYPE LOCALITY.—Coiba Island, Padama.
304. ***Alouatta palliata mexicana*** Merriam.
1902. *Alouatta palliata mexicana* MERRIAM, Proc. biol. soc.
Washington, xv, p. 67. March 22, 1902.
TYPE LOCALITY.—Minatitlan, State of Vera Cruz, Mexico.

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Allen, Glover M. The Louisiana deer. *Amer. nat.*, xxxv, p. 449-454, text fig. 1-3. June, 1901.

Odocoelus virginianus louisianae subsp. nov. The generic name *Odocoelus* is altered to *Odocoelus*, and the specific name *americanus* Erxleben is rejected in favor of *virginianus* Boddaert.

Allen, J. A. The musk oxen of arctic America and Greenland. *Bull. Amer. mus. nat. hist.*, xiv, p. 69-86, pl. xii-xvi, text fig. 1-7. March 27(=30), 1901.

Detailed comparison of *Ovibos wardi* and *O. moschatus*. Notes on the distribution of the two animals. The name *Ovibos pearyi* Allen MS, cited (p. 70) "as a provisional synonym" that may be applied to the form occurring in Grinnell Land if this proves to be distinct from *O. wardi*.

Allen, J. A. Description of a new caribou from Kenai Peninsula, Alaska. *Bull. Amer. mus. nat. hist.*, xiv, p. 143-148, text fig. 1-4. May 28, 1901.

Rangifer stonei.

Allen, J. A. A preliminary study of the North American opossums of the genus *Didelphis*. *Bull. Amer. mus. nat. hist.*, xiv, p. 149-188, pl. xxii-xxv. June 15, 1901.

Contents: introduction (p. 149), skull and dentition (p. 152), sexual variation (p. 153), variation due to age, etc. (p. 155), nasal bones (p. 157), supernumerary teeth, and other abnormalities (p. 158), changes in color of the ears with age (p. 159), nomenclature (p. 159), synopsis of species and subspecies (p. 160), postscript (p. 179), tables of measurements and ratios (p. 180). The following forms are recognized: *Didelphis virginiana* Kerr, *D. v. pigra* Bangs, *D. marsupialis* Linnaeus, *D. m. texensis* subsp. nov., *D. m. tabascensis* subsp. nov., *D. richmondi* sp. nov., *D. yucatanensis* sp. nov. The name *Didelphis nelsoni* occurs as a *nomen nudum* on page 160 (footnote).

Allen, J. A. The generic names *Myrmecophaga* and *Tamandua*, and the specific names of the opossums of the genus *Didelphis*. *Proc. biol. soc. Washington*, xiv, p. 91-93. June 19, 1901.

The great anteater should be known as *Myrmecophaga tridactyla*, *Tamanduas* should replace *Tamandua* and *Uroleptes*, and the name *Didelphis marsupialis* should be restricted to the large opossum of Mexico, leaving *D. virginiana* for the animal of the eastern United States.

Allen, J. A. Descriptions of two new opossums of the genus *Metachirus*. *Bull. Amer. mus. nat. hist.*, xiv, p. 213-218. July 3, 1901.

Metachirus fuscogriseus pallidus and *M. griseus*, the latter from Colombia. *M. fuscogriseus* recorded from Greytown and Bluefields, Nicaragua.

Allen, J. A. The generic names of the *Mephitinae*. *Bull. Amer. mus. nat. hist.*, xiv, p. 325-334. November 12, 1901.

The common skunks should be known as *Mephitis*, the striped skunks as

Spilogale. A refutation of the conclusions reached by Howell in North Amer. fauna, no. 20.

Allen, J. A. Zimmermann's "Zoologiae geographicae" and "Geographische Geschichte" considered in their relation to mammalian nomenclature. Bull. Amer. mus. nat. hist., xvi, p. 13-22. February 1, 1902.

The following names of North American mammals are changed: *Odocoileus* to *Dama* (p. 15 and 18-20), *Arctomys* to *Marmotta* (p. 17), and *Odocoileus mexicanus* to *Dama lichtensteini* (p. 20). Twenty-six deer currently known as *Odocoileus* are listed under *Dama* (p. 20).

Allen, J. A. The generic and specific names of some of the *Otariidae*. Bull. Amer. mus. nat. hist., xvi, p. 111-118. March 15, 1902.

The northern sea lion should stand as *Eumetopias jubata* Schreber, the southern sea lion as *Otaria byronia* (Blainville), and the northern fur seals as *Callotaria* Palmer.

Allen, J. A. A further note on the generic names of the *Mephitinae*. Proc. biol. soc. Washington, xv, p. 59-66. March 22, 1902.

The common skunks should be known as *Mephitis*, the striped skunks as *Spilogale*. A refutation of Howell's second article on the subject (Proc. biol. soc. Washington, xv, p. 1-9, February 18, 1902).

Allen, J. A. A new caribou from the Alaska Peninsula. Bull. Amer. mus. nat. hist., xvi, p. 119-127, text fig. 1-6. March 31, 1902.

Rangifer granti.

Allen, J. A. A new bear from the Alaska Peninsula. Bull. Amer. mus. nat. hist., xvi, p. 141-143, pl. xxx-xxxi. April 12, 1902.

Ursus merriami.

Allen, J. A. Description of a new caribou from northern British Columbia, and remarks on *Rangifer montanus*. Bull. Amer. mus. nat. hist., xvi, p. 149-158, text fig. 1-6. April 16, 1902.

Rangifer osborni.

Allen, J. A. A new sheep from the Kenai Peninsula. Bull. Amer. mus. nat. hist., xvi, p. 145-148, text fig. 1-2. April 23, 1902.

Ovis dalli kenaiensis.

Allen, J. A. Nomenclatorial notes on American mammals. Bull. Amer. mus. nat. hist., xvi, p. 159-168. July 1, 1902.

Paralces nom. nov. for *Alces*, 1835, preoccupied by *Alce*, 1799; *Cervus mexicanus* is not available for a Mexican deer (see Osgood, Proc. biol. soc. Washington, xv, p. 87, April 25, 1902); *Dama* should stand as the generic name of the deer currently known as *Odocoileus* (see Sclater, Ann. and mag. nat. hist., 7th ser., ix, p. 289, April, 1902, and Miller, Proc. biol. soc. Washington, xv, p. 39, March 5, 1902); *Tayassu* is the proper generic name for the peccaries, and *Oligosus* the subgeneric name for the white-lipped peccaries (see Gill, Proc. biol. soc. Washington, xv, p. 38, March 5, 1902, and Thomas, *ibid.*, p. 153-154, June 20, 1902); *Tayassu pecari* Fischer should replace *T. albirostre* Illiger; *Sciurus rufiventris* Geoffroy, 1803, should replace *Sciurus ludovicianus* Custis, 1806, for the western fox squirrel, and the subspecific name *texianus* Bachman, 1838, should replace *limitis* Baird, 1855, for the Texan fox squirrel.

Allen, J. A. List of mammals collected in Alaska by the Andrew J. Stone expedition of 1901. Bull. Amer. mus. nat. hist., xvi, p. 215-230. July 12, 1902.

Twenty-six species. Critical notes and field observations.

Allen, J. A. A preliminary study of the South American opossums of the genus *Didelphis*. Bull. Amer. mus. nat. hist., xvi, p. 249-279. August 18, 1902.

Contents: introduction (p. 249), historical résumé and nomenclature (p. 250), species and subspecies of *Didelphis* (p. 253), descriptions of South American species and subspecies (p. 257), tables of external measurements (p. 276). The name *marsupialis* is applied to the South American species currently known as *karkinophaga*, and *mesamericana* Oken to the large Mexican opossum. *D. marsupialis etensis* subsp. nov. is recorded from Panama.

Allen, J. A. Mammal names proposed by Oken in his "Lehrbuch der Zoologie." Bull. Amer. mus. nat. hist., xvi, p. 373-379. October 11, 1902.

The following names of North American mammals are changed: *Spermophilus* to *Citellus*, *Galictis* to *Grison*, *Galera* to *Tayra*, *Didelphis marsupialis* (as applied to the Mexican opossum) to *D. mesamericana*.

Allen, J. A. A new caribou from Ellesmere Land. Bull. Amer. mus. nat. hist., xvi, p. 409-412, text fig. 1-2. October 31, 1902.

Rangifer pearyi.

Allen, J. A. The hair seals (family *Phocidae*) of the North Pacific Ocean and Bering Sea. Bull. Amer. mus. nat. hist., xvi, p. 459-499, text fig. 1-10. December 12, 1902.

Contents: introduction (p. 459), nomenclature (p. 461), sexual differences in dentition in *Phoca vitulina* (p. 471), comparison of the Atlantic and Pacific forms of the *Phoca vitulina* group (p. 471), the North Pacific *Phocidae* (with descriptions of new forms) (p. 473). The name *Phoca largha* is rejected as undeterminable (p. 463-464), and the seals to which it has been applied are divided into six forms: *Phoca ochotensis* (Okhotsk Sea), *P. o. macrodens* (southeastern Kamschatka to Point Barrow, Alaska), *P. stejnegeri* (Commander Islands), *P. richardii* (continental coast of North Pacific), *P. r. pribilofensis* (Pribilof Islands), and *P. r. geronimensis* (Lower California and Santa Barbara Islands). The other species treated are: *Erignathus barbatus* (p. 473), *Histiophoca fasciata* (p. 474), *Phoca groenlandica* (p. 475), *Phoca hispida* (p. 477), and *P. h. gichigensis* (p. 478).

Allen, J. A.; Bangs, Outram; Evermann, Barton Warren; Gill, Theo.; Howell, Arthur H.; Jordan, David Starr; Merriam, C. Hart; Miller, Gerrit S., Jr.; Nelson, E. W.; Rathbun, Mary; and Thomas, Oldfield. A method of fixing the type in certain genera. Science, n. s., xvi, p. 114-115. July 18, 1902.

The following rule recommended: A generic name which is the same as that of an explicitly included species (or a cited post-Linnaean synonym of such species) takes that species as its type regardless of subsequent elimination.

Bailey, Vernon. Synopsis of the North American species of *Sigmodon*. Proc. biol. soc. Washington, xv, p. 101-116. June 2, 1902.

For summary see p. 80-82.

Bailey, Vernon. Seven new mammals from western Texas. Proc. biol. soc. Washington, xv, p. 117-120. June 2, 1902.

Eutamias cinereicollis canipes, *Spermophilus spilosoma marginatus*, *S. s. arens*, *Microtus mexicanus guadalupensis*, *Fiber zibethicus ripensis*, *Thomomys fulvus texensis*, *T. aureus lachiguilla*.

Bangs, Outram. The mammals collected in San Miguel Island, Panama, by W. W. Brown, Jr. Amer. nat., xxxv, p. 631-644. August, 1901.

The following species recorded: *Marmosa fulviventris* sp. nov., *Didelphis karkinophaga caucae* Allen (afterward named *D. marsupialis etensis* by Allen), *Lepus incitatus* sp. nov., *Dasyprocta callida* sp. nov., *Loncheres labilis* sp. nov., *Proechimys burrus* sp. nov., *Zygodontomys seorsus* sp. nov., *Mus musculus* Linnaeus, *Mus rattus* Linnaeus, *Mus rattus alexandrinus* (Geoffroy), *Vampyrops helleri* Peters, *Hemiderma brevicaudum* (Wied).

Bangs, Outram. Descriptions of two new, insular Blarinas from eastern Massachusetts. Proc. New England zool. club, iii, p. 75-78. March 31, 1902.

Blarina brevicauda aloga and *B. b. compacta*.

Bangs, Outram. Chiriqui Mammalia. Bull. mus. comp. zool., xxxix, p. 17-51, text fig. 1-27. April, 1902.

The following species recorded: *Marmosa mexicana* (Merriam), *Caluromys laniger pallidus* (Thomas), *Metachirus fuscogriseus* Allen, *Didelphis richmondi* Allen, *Choloepus hoffmanni* Peters, *Cyclopes dorsalis* (Gray), *Uroleptes sellata* (Cope), *Myrmecophaga tridactyla* Linnaeus, *Tayassu crusnigrum* sp. nov., *Odocoileus* sp. (in footnote, p. 21, questions the correctness of Allen's assertion that *Dana* should replace this name), *Mazama sartorii* (Saussure), *Elasmognathus bairdii* Gill, *Sciurus melania* (Gray), *S. aestuans chiriquensis* subsp. nov., *S. browni* sp. nov., *Syntheosciurus brochus* gen. et sp. nov., *Mus rattus* Linnaeus, *Megadontomys flavidus* sp. nov., *Peromyscus cacabatus* sp. nov., *Nyctomys nitellinus* sp. nov., *Tylomys watsoni* Thomas, *Sigmodon borucae* Allen, *Sigmodon austerulus* sp. nov., *Oryzomys alfaroi* (Allen), *O. devius* sp. nov., *O. costaricensis* sp. nov., *O. vegetus* sp. nov., *Zygodontomys cherriei* (Allen), *Zygodontomys chrysomelas* (Allen), *Reithrodontomys australis* Allen, *R. a. vulcanius* subsp. nov., *R. costaricensis* Allen, *R. creper* sp. nov., *Akodon teguina apricus* subsp. nov., *A. xerampelinus* sp. nov., *Macrogeomys cavator* sp. nov., *M. pansa* sp. nov., *Heteromys repens* sp. nov., *Proechimys centralis chiriquinus* Thomas, *Dasyprocta isthmica* Alston, *Agouti paca virgatus* subsp. nov., *Lepus gabbi* Allen, *Felis bangsi costaricensis* Merriam, *F. pardalis* Linnaeus, *Conepatus mapurito* (Gmelin), *Galera barbara biologiae* (Thomas), *Putorius affinis* (Gray), *Potos caudivoleulus* (Schreber), *Nasua narica* Linnaeus, *Procyon lotor hernandezii* (Wagler), *Myotis nigricans* (Wied), *Eptesicus fuscus miradorensis* (H. Allen), *Lasiurus borealis mexicanus* (Saussure), *Rhogeessa tumida* H. Allen?, *Hemiderma brevicaudum* (Wied).

Glossophaga soricina Pallas, *Artibeus intermedius* J. A. Allen, *Vampyrops helleri* Peters, *Sturnira lilium* (Geoffroy), *Desmodus rotundus* (Geoffroy), *Alouatta palliata* (Gray), *Saimiri oerstedii* (Reinhardt), *Cebus hypoleucus* (Humboldt).

Chapman, Frank M. A revision of the genus *Capromys*. Bull. Amer. mus. nat. hist., xiv, p. 313-323, pl. xxxix-xl, text fig. 1-3. November 12, 1901.

A study based on about 40 specimens. The species are arranged in two genera, *Procapromys* gen. nov. containing the South American *P. geayi*, and *Capromys* containing the West Indian representatives. For summary of the latter see p. 100-101.

Elliot, D. G. A synopsis of the mammals of North America and the adjacent seas. Field Columbian mus., publication 45, zool. series, vol. II, xv + 471 pp., pl. I-XLIX, text fig. 1-94. March, 1901.

The first general work on North American mammals published since 1857. Ten orders, 34 families, 115 genera, and 998 species and subspecies are recognized as occurring in the region "between the North Pole and the United States and Mexican boundary." No new forms are described, but the name *Balaenoptera copei* is proposed for the whale regarded by Cope as *B. borealis*.

Elliot, D. G. List of mammals obtained by Thaddeus Surber, collector for the Museum, in the Provinces of New Brunswick and Quebec, Canada. Field Columbian mus., publication 54, zool. series, III, p. 15-29. March, 1901.

Thirty-one species are recorded, together with critical notes and collector's field observations.

Elliot, D. G. A list of the land and sea mammals of North America north of Mexico. Supplement to the Synopsis. Field Columbian mus., publication 57, zool. series, II, p. 477-522. June, 1901.

Number of forms recorded 997; notes on the generic name of the walrus (p. 513).

Elliot, D. G. A list of mammals obtained by Thaddeus Surber, in North and South Carolina, Georgia, and Florida. Field Columbian mus., publication 58, zool. series, III, p. 31-57, pl. v-x. June, 1901.

Forty species are recorded, together with critical notes and collector's field observations. The status of several currently recognized forms is questioned.

Elliot, D. G. The caribou of the Kenai Peninsula, Alaska. Field Columbian mus., publication 59, zool. series, III, p. 59-62, pl. xi-xiii. July, 1901.

Gill, Theodore. The bat genus *Pteronotus* renamed *Dermonotus*. Proc. biol. soc. Washington, xiv, p. 177. September 25, 1901.

Gill, Theodore. Note on the names of the genera of peccaries. Proc. biol. soc. Washington, xv, p. 38-39. March 5, 1902.

The names *Tayassu* and *Dicotyles* are both regarded as valid (see Allen, Bull. Amer. mus. nat. hist., xvi, p. 163, July 1, 1902, and Thomas, Proc. biol. soc. Washington, xv, p. 153-154, June 20, 1902).

Hornaday, William T. Description of a new species of mountain sheep.

Fifth annual report of the New York zoological society, appendix 1, p. 1-4. January 8, 1901.

Ovis fannini.

Hornaday, William T. Notes on the mountain sheep of North America, with a description of a new species. Fifth annual report of the New York zoological society, p. 77-122, 14 pls., 3 text figs., and 1 map. June 1, 1901.

The following forms recognized and described in detail: *Ovis fannini* sp. nov., *O. dalli* (Nelson), *O. stonei* Allen, *O. montana* Cuvier, *O. nelsoni* Merriam, and *O. mexicanus* Merriam. The *Ovis canadensis liardensis* of Lydekker is not mentioned, and no opinion is expressed as to the status of *O. canadensis auduboni* Merriam.

Howe, Reginald Heber, Jr. A new race of *Microtus pennsylvanicus*. Proc. Portland soc. nat. hist., II, p. 201-202, pl. v. December 31, 1902.

Microtus pennsylvanicus shattucki.

Howell, Arthur H. Revision of the skunks of the genus *Chincha*. North Amer. fauna, no. 20, 62 pp., pl. I-VIII. August 31, 1901.

Contents: history (p. 9), distribution (p. 10), habits (p. 11), external characters (p. 12), material (p. 13), nomenclature (p. 15), genus *Chincha* (p. 20), key to species and subspecies (p. 20-21), list of species and subspecies with type localities (p. 21), subgenus *Chincha* (p. 22-39), subgenus *Leucomitra* (p. 39-43), tables of cranial measurements (p. 44). This revision is based on an examination of nearly 1000 specimens. For summary see p. 108-110.

Howell, Arthur H. The generic names of the North American skunks. Proc. biol. soc. Washington, xv, p. 1-9, pl. I. February 18, 1902.

A reply to Allen's criticism (Bull. Amer. mus. nat. hist., xiv, p. 325-334, November 12, 1901).

Howell, Arthur H. Three new skunks of the genus *Spilogale*. Proc. biol. soc. Washington, xv, p. 241-242. December 16, 1902.

Spilogale tenuis, *S. angustifrons*, and *S. angustifrons tropicalis*.

Latorre, D. Angel Cabrera. Descripción de tres nuevos mamíferos americanos. Bol. de la soc. española de hist. nat., Madrid, I, p. 367-373. December, 1901.

Vespertilio cspadae, *Myotis thomasi*, and *Capromys elegans*, the first and second South American.

Lyon, Marcus W., Jr. A comparison of the osteology of the jerboas and jumping mice. Proc. U. S. nat. mus., xxiii, p. 650-668, pl. xxv-xxvii. May 2, 1901.

The *Zapodidae* and *Dipodidae* are regarded as distinct and well characterized families.

Lyon, Marcus W., Jr. Description of a new Phyllostome bat from the Isthmus of Panama. Proc. biol. soc. Washington, xv, p. 83-84. April 25, 1902.

Uroderma convexum.

Major, C. I. Forsyth. The muskrat of Santa Lucia (Antilles). Ann. and mag. nat. hist., 7th ser., vii, p. 204-206. February, 1901.

Oryzomys luciae sp. nov. The genus *Holochilus* is regarded as identical

with *Oryzomys* and the specific name *piloris* Zimmermann is substituted for *pilorides* as applied to the animal occurring on Martinique. Both conclusions are questioned by Allen (Bull. Amer. mus. nat. hist., xvi, p. 21, February 1, 1902).

Mearns, Edgar A. A new pocketmouse from southern California. Proc. biol. soc. Washington, xiv, p. 135-136. August 9, 1901.

Perognathus fallax pallidus.

Mearns, Edgar A. The American jaguars. Proc. biol. soc. Washington, xiv, p. 137-143. August 9, 1901.

The following recorded from north of South America: *Felis centralis* sp. nov., *F. hernandesii* (Gray), and *F. h. goldmani* subsp. nov. True *Felis onca* is confined to South America.

Mearns, Edgar A. Description of a new ocelot from Texas and northeastern Mexico. Proc. biol. soc. Washington, xiv, p. 145-148. August 9, 1901.

Felis limitis.

Mearns, Edgar A. Two new cats of the Eyra group from North America. Proc. biol. soc. Washington, xiv, p. 149-151. August 9, 1901.

Felis apache and *F. fossata*.

Mearns, Edgar A. On the mainland forms of the eastern deer mouse, *Peromyscus leucopus* (Rafinesque). Proc. biol. soc. Washington, xiv, p. 153-155. August 9, 1901.

The following forms recognized: *Peromyscus leucopus leucopus* (Rafinesque), *P. l. noveboracensis* (Fischer), and *P. l. minnesotae* subsp. nov.

Mearns, Edgar A. The cacomilt cat of the Rio Grande Valley. Proc. U. S. nat. mus., xxiv, p. 207-210. October 4, 1901.

Felis cacomilti Berlandier distinguished from *F. yagouaroundi*.

Mearns, Edgar A. The ocelot cats. Proc. U. S. nat. mus., xxv, p. 237-249. September 17, 1902.

The following species recognized: *Felis limitis* Mearns, *F. pardalis* Linnaeus, *F. costaricensis* sp. nov., *F. chibigouazou* Griffith, and *F. aequatorialis* sp. nov., the last two from South America. Nomenclature discussed at length (p. 238-241).

Menegaux, A. Description d'une variété et d'une espèce nouvelles de Chirotères rapportées du Mexique par M. Diguët. Bull. mus. d'hist. nat., Paris, 1901, p. 321-327.

Myotis californicus jaliscensis and *M. vivesi*.

Menegaux, A. Liste de Chirotères rapportées par M. Diguët du Mexique. Bull. mus. d'hist. nat., Paris, 1901, p. 388-394.

Thirteen forms are recorded, with brief notes on habits and technical characters. *Vespertilio fuscus* is regarded as a variety of *V. serotinus* (p. 391-392).

Merriam, C. Hart. Two new bighorns and a new antelope from Mexico and the United States. Proc. biol. soc. Washington, xiv, p. 29-32. April 5, 1901.

Ovis mexicanus, *O. canadensis auduboni*, *Antilocapra americana mexicana*. Priority of name *Ovis canadensis* affirmed (p. 29).

Merriam, C. Hart. Six new mammals from Cozumel Island, Yucatan. Proc. biol. soc. Washington, xiv, p. 99-104. July 19, 1901.

Nasua nelsoni, *Procyon pygmaeus*, *Didelphis yucatanensis cozumelae*,
Tayassu nanus, *Peromyscus cozumelae*, *Oryzomys cozumelae*.

Merriam, C. Hart. A new brocket from Yucatan. Proc. biol. soc. Washington, xiv, p. 105-106. July 19, 1901.

Mazama pandora.

Merriam, C. Hart. Descriptions of twenty-three new pocket gophers of the genus *Thomomys*. Proc. biol. soc. Washington, xiv, p. 107-117. July 19 1901.

Thomomys latirostris, *T. sinaloae*, *T. perditus*, *T. goldmani*, *T. baileyi*,
T. nelsoni, *T. cabezonae*, *T. aureus pervagus*, *T. a. perpes*, *T. angularis pascalis*,
T. fuscus fisheri, *T. myops*, *T. leucodon navus*, *T. uinta*, *T. bridgeri*,
T. clusius ocius, *T. idahoensis*, *T. desertorum*, *T. pygmaeus*, *T. douglasi oregonus*,
T. limosus, *T. hesperus*, *T. niger*.

Merriam, C. Hart. Descriptions of four new peccaries from Mexico. Proc. biol. soc. Washington, xiv, p. 119-124. July 19, 1901.

Olidosus subgen. nov., *Tayassu* (*O.*) *albirostris ringens*, *T.* (*Tayassu*) *angularis humeralis*, *T.* (*T.*) *a. yucatanensis*, *T.* (*T.*) *a. crassus*.

Merriam, C. Hart. Two new rodents from northwestern California. Proc. biol. soc. Washington, xiv, p. 125-126. July 19, 1901.

Phenacomys albipes and *Callospermophilus chrysodeirus trinitatis*.

Merriam, C. Hart. Descriptions of three new kangaroo mice of the genus *Microdipodops*. Proc. biol. soc. Washington, xiv, p. 127-128. July 19, 1901.

Microdipodops megalcephalus oregonus, *M. pallidus*, and *M. californicus*.

Merriam, C. Hart. Synopsis of the rice rats (genus *Oryzomys*) of the United States and Mexico. Proc. Washington acad. sci., iii, p. 273-295. July 26, 1901.

A revision based on the examination of about 600 specimens. The species are arranged in four groups, but no attempt is made to correlate these with the subgenera named by Bangs (Proc. New England zool. club, i, pp. 94, 96, February 23, 1900). For summary see p. 82-86.

Merriam, C. Hart. Descriptions of 23 new harvest mice (genus *Reithrodontomys*). Proc. Washington acad. sci., iii, p. 547-558. November 29, 1901.

Reithrodontomys tenuirostris, *R. t. aureus*, *R. microdon*, *R. m. albilabris*,
R. chrysopsis tolucae, *R. perotensis*, *R. orizabae*, *R. colimae*, *R. c. nerterus*,
R. c. jalapae, *R. goldmani*, *R. hirsutus*, *R. griseotlavus*, *R. g. helvolus*, *R. levipes*,
R. l. otus, *R. l. toltecus*, *R. saturatus cinereus*, *R. s. alticolus*, *R. difficilis*,
R. dorsalis, *R. megalotis zacatecae*, *R. m. obscurus*.

Merriam, C. Hart. Seven new mammals from Mexico, including a new genus of rodents. Proc. Washington acad. sci., iii, p. 559-563. November 29, 1901.

Blarina mayensis, *Odocoileus hemionus canus*, *Tylomys tumbalensis*,
T. bullaris, *Ototylomys* gen. nov., *O. phyllotis*, *O. p. phaeus*, *Callospermophilus madrensis*.

Merriam, C. Hart. Preliminary revision of the pumas (*Felis concolor* group). Proc. Washington acad. sci., iii, p. 577-600. December 11, 1901.

The following forms are recognized: *Felis cougar* Kerr (type locality, Pennsylvania), *F. coryi* Bangs (Florida), *F. hippolestes* Merriam

(Wyoming), *F. h. olympus* Merriam (Washington), *F. h. aztecus* subsp. nov. (Chihuahua), *F. bangsi* sp. nov. (Colombia), *F. b. costaricensis* subsp. nov. (Costa Rica), *F. concolor* Linnaeus (Brazil), *F. puma* Molina (Chili), *F. p. patagonica* subsp. nov. (base of Andes, Patagonia), *F. p. pearsoni* (Thomas) (coast of Santa Cruz, Patagonia).

Merriam, C. Hart. Twenty new pocket mice (*Heteromys* and *Liomys*) from Mexico. Proc. biol. soc. Washington, xv, p. 41-50. March 5, 1902.

Heteromys goldmani, *H. g. lepturus*, *H. griseus*, *H. annectens*, *Xylomys* subgen. nov., *H. (X.) nelsoni*, *Liomys* gen. nov., *L. texensis*, *L. canus*, *L. torridus*, *L. t. minor*, *L. plantinurensis*, *L. pictus rostratus*, *L. p. isthmus*, *L. sonorana*, *L. veracruensis*, *L. obscurus*, *L. phaeura*, *L. orbitalis*, *L. crispus*, *L. c. setosus*, *L. heterothrix*.

Merriam, C. Hart. Five new mammals from Mexico. Proc. biol. soc. Washington, xv, p. 67-69. March 22, 1902.

Aiouatta palliata mexicana, *Putorius tropicalis perdis*, *Nasua narica molaris*, *Platygeomys neglectus*, *Spermophilus annulatus goldmani*.

Merriam, C. Hart. A new bobcat (*Lynx uinta*) from the Rocky Mountains. Proc. biol. soc. Washington, xv, p. 71-72. March 22, 1902.

Merriam, C. Hart. Three new foxes of the kit and desert fox groups. Proc. biol. soc. Washington, xv, p. 73-74. March 22, 1902.

Vulpes velox hebes, *V. macrotis neomexicanus*, *V. nuticus*.

Merriam, C. Hart. Two new shrews of the *Sorex tenellus* group from California. Proc. biol. soc. Washington, xv, p. 75-76. March 22, 1902.

Sorex tenellus lyelli and *S. t. myops*.

Merriam, C. Hart. Two new bears from the Alaska Peninsula. Proc. biol. soc. Washington, xv, p. 77-79. March 22, 1902.

Ursus dalli gyas and *U. kidderi*.

Merriam, C. Hart. Six new skunks of the genus *Conepatus*. Proc. biol. soc. Washington, xv, p. 161-165. August 6, 1902.

Oryctogale subgen. nov., *Conepatus (O.) leuconotus texensis*, *C. (O.) sonoriensis*, *C. (O.) mesoleucus mearnsi*, *C. (O.) felipensis*, *C. (O.) pediculus*, *C. (Marputius) tropicalis*.

Merriam, C. Hart. Four new arctic foxes. Proc. biol. soc. Washington, xv, p. 167-172. August 6, 1902.

Vulpes lagopus innuitus, *V. l. ungava*, *V. pribilofensis*, and *V. beringensis*, the last from Kamtchatka.

Miller, Gerrit S., Jr. A new deer from Costa Rica. Proc. biol. soc. Washington, xiv, p. 35-37. April 25, 1901.

Odocoileus costaricensis.

Miller, Gerrit S., Jr. The technical name of the Virginia deer. Proc. biol. soc. Washington, xv, p. 39. March 5, 1902.

Odocoileus americanus. Many of the names used by Zimmermann, including *Dama* (see Allen, Bull. Amer. mus. nat. hist., xvi, p. 18-20, February 1, 1902, and xvi, p. 161-162, July 1, 1902), cannot be regarded as valid.

Miller, Gerrit S., Jr. A new rabbit from southern Texas. Proc. biol. soc. Washington, xv, p. 81-82. April 25, 1902.

Lepus simplicianus.

- Miller, Gerrit S., Jr.** Note on the *Chilonycteris davyi fulvus* of Thomas. Proc. biol. soc. Washington, xv, p. 155. June 20, 1902.
Distinct from *Dermonotus davyi*.
- Miller, Gerrit S., Jr.** Note on the *Vespertilio incantus* of J. A. Allen. Proc. biol. soc. Washington, xv, p. 155. June 20, 1902.
Distinct from *Myotis velifer*.
- Miller, Gerrit S., Jr.** Twenty new American bats. Proc. acad. nat. sci. Phila., 1902, p. 389-412. September 12, 1902.
Antrozous minor, *Pipistrellus cinnamonus*, *Dasypterus floridanus*, *Nyctinomops*, *N. guatemalensis*, *Molossus nigricans*, *M. pretiosus* (Venezuela), *Nyctinomops antillarum*, *Natalus major*, *N. mexicanus*, *Chilonycteris portoricensis*, *C. boothi* (Gundlach), *C. mexicana*, *Mormoops tumidiceps* (Trinidad), *Dermanura rava* (Ecuador), *D. tolteca* (Saussure), *D. phacotis*, *Vampyrops fumosus* (Brazil), *Stenoderma luciae*, *Hemiderma tricolor* (Paraguay), *Brachyphylla nana*, *Monophyllus cubanus*, *M. luciae*.
- Miller, Gerrit S., Jr.** A new bat from the Island of Dominica. Proc. biol. soc. Washington, xv, p. 243-244. December 16, 1902.
Myotis dominicensis.
- Miller, Gerrit S., Jr.** The common *Nyctinomops* of the Greater Antilles. Proc. biol. soc. Washington, xv, p. 248. December 16, 1902.
Nyctinomops musculus Gundlach distinct from *N. brasiliensis*.
- Miller, Gerrit S., Jr.** The external characters of *Brachyphylla nana* Miller. Proc. biol. soc. Washington, xv, p. 249. December 16, 1902.
- Miller, Gerrit S., Jr.** An overlooked specimen of *Chilonycteris psilotis*. Proc. biol. soc. Washington, xv, p. 249. December 16, 1902.
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Introduction and itinerary (p. 7), acknowledgments (p. 9), physiography (p. 9), flora (p. 11), fauna (p. 16), life zones (p. 20), bibliography (p. 22), annotated list of mammals (p. 25), annotated list of birds (p. 38). Twenty-three mammals, the following new: *Peromyscus prevostensis*, *Ursus carlottae*, *Mustela nesophila*, *Sorex longicauda prevostensis*, *S. l. elassodon.*
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- aphorodemus*, *Fiber zibethicus hudsonius*, *Lepus arcticus canus*, *Lutreola vison lacustris*, *Mustela americana abieticola*, *Sorex alnorum*.
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- The name restricted to the opossum of the southern end of the tableland of Mexico. On this subject see Allen. (Proc. biol. soc. Washington, xiv, p. 91-93, June 19, 1901; Bull. Amer. mus. nat. hist., xiv, pp. 159 and 169, June 15, 1901, and xvi, p. 251, August 18, 1902).
- Rehn, James A. G.** Notes on Chiroptera. Proc. acad. nat. sci. Phila., 1900, p. 755-759. February 9, 1901.
- Eptesicus arge* (Cope), *Uroderma bilobatum*, the characters of *Uroderma* and *Artibeus*, *Artibeus eva* (Cope), *Sphaeronycteris toxophyllum* (Peters).
- Rehn, James A. G.** A study of the genus *Centurio*. Proc. acad. nat. sci. Phila., 1901, p. 295-302. June 7, 1901.
- A study based on seven specimens. For summary see p. 130-131.
- Rehn, James A. G.** A new bat of the genus *Glossophaga*. Proc. acad. nat. sci. Phila., 1902, p. 37-38. April 23, 1902.
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- Mormoops intermedia* (of Curaçao) regarded as a form of *M. megalophylla*.
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- Eptesicus fuscus osceola* subsp. nov., and *E. f. bernardinus* subsp. nov.
- Rhoads, Samuel N.** Synopsis of the American martens. Proc. acad. nat. sci. Phila., 1902, p. 443-460. September 30, 1902.
- A study based on about 130 specimens. Seven forms are recognized (for summary see p. 115-116), but *M. nesophila* Osgood is not mentioned.
- Slater, P. L.** The generic term "*Dama*." Ann. and mag. nat. hist., 7th ser., ix, p. 289-290. April, 1902.
- The name is not tenable, and should be replaced by *Cariacus*. (See also Miller, Proc. biol. soc. Washington, xv, p. 39, March 5, 1902; Allen, Bull. Amer. mus. nat. hist., xvi, p. 161-162, July 2, 1902; and Thomas, Proc. biol. soc. Washington, xv, p. 198, October 10, 1902.)
- Stone, Witmer.** *Felis oregonensis* Raf. again! Science, n. s., xv, p. 510. March 28, 1902.
- A refutation of the conclusion reached by Merriam (Proc. Washington acad. sci., iii, p. 590-592, December 11, 1901) that this name is untenable.

Thomas, Oldfield. The generic names *Myrmecophaga* and *Didelphis*. Amer. nat., xxxv, p. 143-145. February, 1901.

The great anteater should stand as *Myrmecophaga tridactyla*, while *Uroleptes* and *Cyclopes* should be accepted in their current application (see Allen, Proc. biol. soc. Washington, xiv, p. 92, June 19, 1901). The name *Didelphis marsupialis* should be restricted to the large opossum of north-eastern South America.

Thomas, Oldfield. New mammals from Peru and Bolivia, with a list of those recorded from the Inambari River, upper Madre de Dios. Ann. and mag. nat. hist., 7th ser., vii, p. 178-190. February, 1901.

The species are all South American. *Galera* distinguished generically from *Galictis*.

Thomas, Oldfield. On a new genus and species of Vespertilionine bat from East Africa. Ann. and mag. nat. hist., 7th ser., vii, p. 460-462. May, 1901.

Laephotis wintoni. The generic affinities of the Scrotine bats are discussed, with the conclusion that *Eptesicus* cannot be regarded as distinct from *Vespertilio*.

Thomas, Oldfield. New *Myotis*, *Artibeus*, *Sylvilagus*, and *Metachirus* from Central and South America. Ann. and mag. nat. hist., 7th ser., vii, p. 541-545. June, 1901.

Myotis simus (Peru), *Artibeus watsoni* (Panama), *Sylvilagus surdaster* (Ecuador), *Metachirus nudicaudatus phaeurus* (Ecuador).

Thomas, Oldfield. On a collection of mammals from the Kanuku Mountains, British Guiana. Ann. and mag. nat. hist., 7th ser., viii, p. 139-154. August, 1901.

Contains a further statement concerning the applicability of the name *Didelphis marsupialis* to the South American opossum (p. 153).

Thomas, Oldfield. On a collection of bats from Para. Ann. and mag. nat. hist., 7th ser., viii, p. 189-193. September, 1901.

The bats commonly known as *Artibeus perspicillatus* and *Hemiderma brevicaudum* should stand as *A. jamaicensis* and *H. perspicillatum* respectively (p. 192).

Thomas, Oldfield. New neotropical mammals, with a note on the species of *Reithrodon*. Ann. and mag. nat. hist., 7th ser., viii, p. 246-255. September, 1901.

Dasypterus ega and its subspecies (p. 246-247): *D. e. panamensis* subsp. nov., *D. e. fuscatus* subsp. nov. (Colombia), *D. ega*, typical form (Brazil), *D. e. argentinus* subsp. nov. (Argentina); other new forms: *Felis pajeros crucina* (Patagonia), *Nasua quichua* (Ecuador), *N. olivacea meridensis* (Venezuela), *Nectomys esmeraldarum* (Ecuador), *Oryzomys tectus* (Panama), *O. panamensis* (Panama), *Eligmodontia callosa boliviae* (Bolivia).

Thomas, Oldfield. New insular forms of *Nasua* and *Dasyprocta*. Ann. and mag. nat. hist., 7th ser., viii, p. 271-273. October, 1901.

Nasua thersites (Cozumel) and *Dasyprocta ruatanica* (Ruatan).

Thomas, Oldfield. On the geographical races of the kinkajou. Ann. and mag. nat. hist., 7th ser., ix, p. 266-270. April, 1902.

Potos flavus aztecus subsp. nov. (Mexico and Guatemala), *P. f. megaiotis*

(Costa Rica and Colombia), *P. flavus*, typical form (Guiana), *P. f. meridensis* subsp. nov. (Venezuela) and *P. f. modestus* subsp. nov. (Ecuador).

Thomas, Oldfield. On some mammals from Coiba Island, off the west coast of Panama. *Novitat. zoologicae*, ix, p. 135-137. April 10, 1902.

Alouatta palliata coibensis subsp. nov., *Cebus hypoleucus* Humboldt, *Dasyprocta coibae* sp. nov., *Dama rothschildi* sp. nov., *Didelphis marsupialis battyi* subsp. nov.

Thomas, Oldfield. The generic names of the peccaries, northern fur seal and sea leopard. *Proc. biol. soc. Washington*, xv, p. 153-156. June 20, 1902.

Tayassu should stand for the collared peccaries, and *Notophorus* for the white-lipped species. The northern fur seals should be known as *Callorhinus* and the sea leopard as *Stenorkhinus*.

Thomas, Oldfield. New forms of *Saimiri*, *Oryzomys*, *Phyllotis*, *Coendou* and *Cyclopes*. *Ann. and mag. nat. hist.*, 7th ser., x, p. 246-250. September, 1902.

Saimiri boliviensis nigriceps (Peru), *Oryzomys phacopus olivinus* (Ecuador), *Phyllotis boliviensis flavidior* (Peru), *Coendou mexicanus yucataniae* (Yucatan), *Cyclopes didactylus eva* (Colombia).

Thomas, Oldfield. Notes on the Phyllostomatous genera *Mimon* and *Tonatia*. *Ann. and mag. nat. hist.*, 7th ser., x, p. 53-54. July, 1902.

Records *Mimon bennettii* from Ypanema, Sao Paulo, Brazil, and *Tonatia amblyotis* from Bogaba, Chiriqui, Panama.

Thomas, Oldfield. Diagnosis of a new Central American porcupine. *Ann. and mag. nat. hist.*, 7th ser., x, p. 169. August, 1902.

Coendou rothschildi.

Thomas, Oldfield. On the generic names *Notophorus*, *Alees*, *Dama*, and *Cephalotes* with remarks on the "one-letter rule" in nomenclature. *Proc. biol. soc. Washington*, xv, p. 197-198. October 10, 1902.

Agrees with Allen (*Bull. Amer. mus. nat. hist.*, xvi, pp. 162 and 168, July 1, 1902) that *Notophorus* should be considered a synonym of *Tayassu*. Regards the renaming of *Alees* (Allen, *Bull. Amer. mus. nat. hist.*, xvi, p. 159, July 1, 1902) as unnecessary, but would restrict the application of the "one-letter rule" to generic names. The name *Dama* not valid for the Virginia deer. *Nyctimene* Bechstein antedates *Cephalotes* Geoffroy.



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