

## ORDER RODENTIA

ISIS NUMBER: 530141000000000000.

## Family Aplodontidae

REVIEWED BY: H. Levenson (HL).

ISIS NUMBER: 5301410001000000000.

*Aplodontia* Richardson, 1829. Zool. J., 4:334.

COMMENT: Revised by Taylor, 1918, Univ. Calif. Publ. Zool., 17:455.

ISIS NUMBER: 5301410001001000000.

*Aplodontia rufa* (Rafinesque, 1817). Am. Mon. Mag., 2:45.

TYPE LOCALITY: U.S.A., Oregon, neighborhood Columbia River.

DISTRIBUTION: S.W. British Columbia (Canada) to C. California (U.S.A.).

COMMENT: Specimens from U.S.A., Oregon, Clackamas Co., Marmot, regarded as typical; see Taylor, 1918, Univ. Calif. Publ. Zool., 17:455.

ISIS NUMBER: 5301410001001001001.

## Family Sciuridae

REVIEWED BY: L. R. Heaney (LRH)(Asia); R. S. Hoffmann (RSH); S. L. Lindsay (SLL); G. McGrath (GM); T. J. McIntyre (TJM)(Asia); T. Pearson (TP); J. Ramirez-Pulido (JRP)(Mexico); O. L. Rossolimo (OLR)(U.S.S.R.); S. Wang (SW)(China).

COMMENT: Reviewed by Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, except flying squirrels.

ISIS NUMBER: 5301410002000000000.

*Aeretes* G. M. Allen, 1940. Nat. Hist. Cent. Asia, II, 2:745.

ISIS NUMBER: 5301410002039000000.

*Aeretes melanopterus* (Milne-Edwards, 1867). Ann. Sci. Nat. Zool., 8:375.

TYPE LOCALITY: China, Hopei.

DISTRIBUTION: Hopei and Szechwan (China).

ISIS NUMBER: 5301410002039001001.

*Aeromys* Robinson and Kloss, 1915. J. Fed. Malay St. Mus., 6:23.

ISIS NUMBER: 5301410002040000000.

*Aeromys tephromelas* (Gunther, 1873). Proc. Zool. Soc. Lond., 1873:413.

TYPE LOCALITY: Malaysia, Penang Isl., Wellesley.

DISTRIBUTION: Malaysian subregion, except Java and S.W. Philippines.

COMMENT: Includes *phaemelas*; see Medway, 1977:101.

ISIS NUMBER: 5301410002040001001.

*Aeromys thomasi* (Hose, 1900). Ann. Mag. Nat. Hist., 5:215.

TYPE LOCALITY: Malaysia, Sarawak, Baram, Silat River.

DISTRIBUTION: Borneo, except S.E.

*Ammospermophilus* Merriam, 1892. Proc. Biol. Soc. Wash., 7:27.

REVIEWED BY: D. J. Hafner (DJH).

COMMENT: Formerly included in *Spermophilus* (= *Citellus*) by Hershkovitz, 1949, J. Mammal., 30:296. Bryant, 1945, Am. Midl. Nat., 33:374-375, considered *Ammospermophilus* a distinct genus. Recent biochemical and chromosomal data support Bryant's recognition of generic status; currently being revised by DJH.

ISIS NUMBER: 5301410002001000000.

*Ammospermophilus harrisi* (Audubon and Bachman, 1854). The Viviparous Quadrupeds of North America, 3:267.

TYPE LOCALITY: U.S.A., Arizona, Santa Cruz Co., Santa Cruz Valley at the Mexican boundary.

DISTRIBUTION: Arizona to S.W. New Mexico (U.S.A.) and adjoining Sonora (Mexico).

ISIS NUMBER: 5301410002001001001.

*Ammospermophilus insularis* Nelson and Goldman, 1909. Proc. Biol. Soc. Wash., 22:24.

TYPE LOCALITY: Mexico, Baja California Sur, Isla Espiritu Santo.

DISTRIBUTION: Known only from the type locality.

- COMMENT: Considered a distinct species by Hall, 1981:381. Specific validity unclear, due to conflicting chromosomal, allozymic, morphological and zoogeographic data (DJH).  
 ISIS NUMBER: 5301410002001002001.
- Ammospermophilus interpres* (Merriam, 1890). N. Am. Fauna, 4:21.  
 TYPE LOCALITY: U.S.A., Texas, El Paso Co., El Paso.  
 DISTRIBUTION: New Mexico and W. Texas (U.S.A.) to Coahuila, Chihuahua, and Durango (Mexico).  
 ISIS NUMBER: 5301410002001003001.
- Ammospermophilus leucurus* (Merriam, 1889). N. Am. Fauna, 2:20.  
 TYPE LOCALITY: U.S.A., California, Riverside Co., San Gorgonio Pass.  
 DISTRIBUTION: E. California and S.E. Oregon to Colorado and New Mexico (U.S.A.), south to Baja California Sur (Mexico).  
 COMMENT: Ongoing investigation indicates that populations south of approx. 29° 30' N. lat. on the Baja California peninsula may constitute a separate species (oldest available name: *A. canfieldae* Huey) (DJH).  
 ISIS NUMBER: 5301410002001004001.
- Ammospermophilus nelsoni* (Merriam, 1893). Proc. Biol. Soc. Wash., 8:129.  
 TYPE LOCALITY: U.S.A., California, Tulare Co., Tipton.  
 DISTRIBUTION: San Joaquin Valley (S. California, U.S.A.).  
 COMMENT: May now be restricted to southern half of its former range (DJH).  
 ISIS NUMBER: 5301410002001005001.
- Atlantoxerus* Forsyth Major, 1893. Proc. Zool. Soc. Lond., 1893:189.  
 COMMENT: Closely related to *Xerus*; see Corbet, 1978:79.  
 ISIS NUMBER: 5301410002002000000.
- Atlantoxerus getulus* (Linnaeus, 1758). Syst. Nat., 10th ed., 1:64.  
 TYPE LOCALITY: Morocco, Agadir.  
 DISTRIBUTION: Morocco, Algeria.  
 COMMENT: Includes *trivittatus*; see Corbet, 1978:79.  
 ISIS NUMBER: 5301410002002001001.
- Belomys* Thomas, 1908. Ann. Mag. Nat. Hist., ser. 8, 1:2.  
 ISIS NUMBER: 5301410002041000000.
- Belomys pearsoni* (Gray, 1842). Ann. Mag. Nat. Hist., 10:263.  
 TYPE LOCALITY: India, Assam, Darjeeling.  
 DISTRIBUTION: Sikkim and Assam (India) to S. China, Hainan, Taiwan, and Indochina.  
 ISIS NUMBER: 5301410002041001001.
- Callosciurus* Gray, 1867. Ann. Mag. Nat. Hist., 20:277.  
 COMMENT: Formerly included *Sundasciurus* and *Prosciurillus* (in part; see Moore, 1958, Am. Mus. Novit., 1890:1-5) and *Tamiops* (see Moore and Tate, 1965, Fieldiana Zool., 48:1-351).  
 ISIS NUMBER: 5301410002003000000.
- Callosciurus adamsi* (Kloss, 1921). J. Str. Br. Roy. Asiatic Soc., 83:151.  
 TYPE LOCALITY: Malaysia, Sarawak, Baram, Long Mujan, 150 mi. (241 km) up Baram River, 700-900 ft. (213-274 m).  
 DISTRIBUTION: N. Borneo.  
 COMMENT: Distinct from *albescens*; see Medway, 1977:93.
- Callosciurus albescens* (Bonhote, 1901). Ann. Mag. Nat. Hist., ser. 7, 7:446.  
 TYPE LOCALITY: Indonesia, Sumatra, Acheen (=Atjeh).  
 DISTRIBUTION: Sumatra.  
 COMMENT: Considered a distinct species by Medway, 1977:93.
- Callosciurus baluensis* (Bonhote, 1901). Ann. Mag. Nat. Hist., ser. 7, 7:174.  
 TYPE LOCALITY: Malaysia, Sabah, Mt. Kinabalu.  
 DISTRIBUTION: Higher elevations on Mt. Kinabalu (Sabah, Malaysia).  
 COMMENT: Often considered a subspecies of *prevosti*; see Medway, 1977:86.

- Callosciurus caniceps* (Gray, 1842). Ann. Mag. Nat. Hist., ser. 1, 10:263.  
TYPE LOCALITY: Burma, Tenasserim.  
DISTRIBUTION: Thailand, peninsular Burma, peninsular Malaysia, and adjacent islands.  
COMMENT: Revised by Moore and Tate, 1965, Fieldiana Zool., 48:1-351. Closely related to *erythraeus*, *inornatus*, and *phayrei* (LRH).  
ISIS NUMBER: 5301410002003001001.
- Callosciurus erythraeus* (Pallas, 1778). Nova Spec. Quad. Glir. Ord., p. 377.  
TYPE LOCALITY: India, Assam, Garo Hills.  
DISTRIBUTION: West of Irrawaddy River in India; Burma; S.E. China.  
COMMENT: Includes *sladeni*; see Moore and Tate, 1965, Fieldiana Zool., 48:113. May include *flavimanus* (LRH).  
ISIS NUMBER: 5301410002003002001 as *C. erythraeus*.  
5301410002003013001 as *C. sladeni*.
- Callosciurus ferrugineus* (F. Cuvier, 1829). Tabl. Meth. Mamm., 3:238.  
TYPE LOCALITY: "India."  
DISTRIBUTION: S.C. Burma.  
COMMENT: Often considered conspecific with *finlaysoni*, but see Moore and Tate, 1965, Fieldiana Zool., 48:158, who considered *ferrugineus* a distinct species.  
ISIS NUMBER: 5301410002003003001.
- Callosciurus finlaysoni* (Horsfield, 1824). Zool. Res. Java, 7:7.  
TYPE LOCALITY: Thailand, Si Chang Isl. (N. Gulf of Thailand).  
DISTRIBUTION: Thailand; Kampuchea; Laos; Vietnam.  
COMMENT: Revised by Moore and Tate, 1965, Fieldiana Zool., 48:161.  
ISIS NUMBER: 5301410002003004001.
- Callosciurus flavimanus* (I. Geoffroy, 1831). In Zool. Voy. de Belanger Indes Orient., 1:148.  
TYPE LOCALITY: Vietnam, Quang Nam Prov., Da Nang (=Tourane).  
DISTRIBUTION: East of Irrawaddy River in Burma, Thailand, Malaya, Indochina, S. China, and Taiwan.  
COMMENT: May be conspecific with *erythraeus* (LRH).  
ISIS NUMBER: 5301410002003005001.
- Callosciurus inornatus* (Gray, 1867). Ann. Mag. Nat. Hist., ser. 3, 20:282.  
TYPE LOCALITY: "Mountains in Laos."  
DISTRIBUTION: Laos; N. Vietnam.  
COMMENT: Revised by Moore and Tate, 1965, Fieldiana Zool., 48:209.  
ISIS NUMBER: 5301410002003006001.
- Callosciurus melanogaster* (Thomas, 1896). Ann. Mus. Civ. Stor. Nat. Genova, 14:668.  
TYPE LOCALITY: Indonesia, Mentawi Isls., Sipora Isl.  
DISTRIBUTION: Mentawi Isls. (Indonesia).  
COMMENT: Member of the *notatus* species group (LRH).  
ISIS NUMBER: 5301410002003007001.
- Callosciurus nigrovittatus* (Horsfield, 1823). Zool. Res. Java, 7:149.  
TYPE LOCALITY: Indonesia, West Java.  
DISTRIBUTION: Malay Peninsula; Sumatra; Borneo; Java; adjacent small islands.  
COMMENT: Member of the *notatus* species group (LRH).  
ISIS NUMBER: 5301410002003008001.
- Callosciurus notatus* (Boddaert, 1785). Elench. Anim., p. 119.  
TYPE LOCALITY: Indonesia, West Java.  
DISTRIBUTION: Widespread on islands from Malaya to Java, Bali, and Borneo; Salayer Isl. (south of Sulawesi).  
ISIS NUMBER: 5301410002003009001.
- Callosciurus phayrei* (Blyth, 1855). J. Asiat. Soc. Bengal, 24:472.  
TYPE LOCALITY: Burma, Martaban.  
DISTRIBUTION: S. Burma.  
COMMENT: Considered a distinct species by Moore and Tate, 1965, Fieldiana Zool., 48:201. Closely related to *caniceps* (LRH).

- Callosciurus prevosti* (Desmarest, 1822). *Encyclop. Method. Mamm.*, p. 335.  
 TYPE LOCALITY: Malaysia, Malacca Prov., Malacca.  
 DISTRIBUTION: Malaysian subregion except Java; Sulawesi.  
 COMMENT: May include *baluensis*; see Medway, 1977:86. Reviewed by Heaney, 1978, *Evolution*, 32:29-44.  
 ISIS NUMBER: 5301410002003010001.
- Callosciurus pygerythrus* (I. Geoffroy, 1832). *Mag. Zool. Paris*, p. 5, pl. 4-6.  
 TYPE LOCALITY: Burma, Syriam, near Pegu.  
 DISTRIBUTION: Nepal to Burma and Yunnan (China).  
 COMMENT: Revised by Moore and Tate, 1965, *Fieldiana Zool.*, 48:209.  
 ISIS NUMBER: 5301410002003011001.
- Callosciurus quinquestriatus* (Anderson, 1871). *Proc. Zool. Soc. Lond.*, 1871:142.  
 TYPE LOCALITY: Burma, Kakhven Hills, Ponsee (East of Bhamo).  
 DISTRIBUTION: N.E. Burma; Yunnan (China).  
 COMMENT: Included in *flavimanus* by Moore and Tate, 1965, *Fieldiana Zool.*, 48:209, but see Corbet and Hill, 1980:132. LRH considers *quinquestriatus* a distinct species.  
 ISIS NUMBER: 5301410002003012001.
- Cynomys Rafinesque*, 1817. *Am. Mon. Mag.*, 2:43.  
 REVIEWED BY: S. D. Shalaway (SDS).  
 COMMENT: Revised by Pizzimenti, 1975, *Occas. Pap. Mus. Nat. Hist. Univ. Kans.*, 39:1-73. Clark *et al.*, 1971, *Mamm. Species*, 7:1-4, published a key to the genus.  
 ISIS NUMBER: 5301410002004000000.
- Cynomys gunnisoni* (Baird, 1855). *Proc. Acad. Nat. Sci. Phila.*, 7:334.  
 TYPE LOCALITY: U.S.A., Colorado, Saguache Co., Cochetopa Pass.  
 DISTRIBUTION: S.E. Utah, S.W. Colorado, N.E. Arizona, and N.W. New Mexico (U.S.A.).  
 COMMENT: Subgenus *Leucocrossuromys*; see Hall, 1981. Reviewed by Pizzimenti and Hoffmann, 1973, *Mamm. Species*, 25:1-4.  
 ISIS NUMBER: 5301410002004001001.
- Cynomys leucurus* Merriam, 1890. *N. Am. Fauna*, 3:59.  
 TYPE LOCALITY: U.S.A., Wyoming, Uinta Co., Fort Bridger.  
 DISTRIBUTION: S.C. Montana, W. and C. Wyoming, N.E. Utah, and N.W. Colorado (U.S.A.)  
 COMMENT: Subgenus *Leucocrossuromys*; see Hall, 1981. Reviewed by Clark *et al.*, 1971, *Mamm. Species*, 7:1-4.  
 ISIS NUMBER: 5301410002004002001.
- Cynomys ludovicianus* (Ord, 1815). *In Guthrie, A New Geogr., Hist. Coml. Grammar, Phila.*, 2nd ed., 2:292.  
 TYPE LOCALITY: U.S.A., "Upper Missouri River."  
 DISTRIBUTION: Saskatchewan (Canada); Montana to E. Nebraska, W. Texas, New Mexico, and S.E. Arizona (U.S.A.); N.E. Sonora, and N. Chihuahua (Mexico).  
 COMMENT: Subgenus *Cynomys*; see Hall, 1981:411.  
 ISIS NUMBER: 5301410002004003001.
- Cynomys mexicanus* Merriam, 1892. *Proc. Biol. Soc. Wash.*, 7:157.  
 TYPE LOCALITY: Mexico, Coahuila, La Ventura.  
 DISTRIBUTION: Coahuila, and San Luis Potosi; perhaps Nuevo Leon, and Zacatecas (N.C. Mexico).  
 COMMENT: Subgenus *Cynomys*; see Hall, 1981:412.  
 PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.  
 ISIS NUMBER: 5301410002004004001.
- Cynomys parvidens* J. A. Allen, 1905. *Mus. Brooklyn Inst. Arts and Sci., Sci. Bull.*, 1:119.  
 TYPE LOCALITY: U.S.A., Utah, Iron Co., Buckskin Valley.  
 DISTRIBUTION: S.C. Utah (U.S.A.).  
 COMMENT: Subgenus *Leucocrossuromys*; see Hall, 1981. Reviewed by Pizzimenti and Collier, 1975, *Mamm. Species*, 52:1-3.

PROTECTED STATUS: U.S. ESA - Endangered.

ISIS NUMBER: 5301410002004005001.

*Dremomys* Heude, 1898. Mem. Hist. Nat. Emp. Chin., 4(2):54.

ISIS NUMBER: 5301410002005000000.

*Dremomys everetti* (Thomas, 1890). Ann. Mag. Nat. Hist., ser. 6, 6:171.

TYPE LOCALITY: Malaysia, Sarawak, Mt. Penrisen.

DISTRIBUTION: Mountains of Borneo.

ISIS NUMBER: 5301410002005001001.

*Dremomys lokriah* (Hodgson, 1836). J. Asiat. Soc. Bengal, 5:232.

TYPE LOCALITY: Nepal.

DISTRIBUTION: C. Nepal east to Salween River; Tibet (China); N. Burma; mountains in E. India.

COMMENT: Revised by Moore and Tate, 1965, Fieldiana Zool., 48:263.

ISIS NUMBER: 5301410002005002001.

*Dremomys pernyi* (Milne-Edwards, 1867). Rev. Mag. Zool. Paris, ser. 2, 19:19.

TYPE LOCALITY: China, Szechwan, mountains near Moupin.

DISTRIBUTION: Burma and Tibet to C. and S.E. China; Taiwan.

ISIS NUMBER: 5301410002005003001.

*Dremomys pyrrhomerus* (Thomas, 1895). Ann. Mag. Nat. Hist., ser. 6, 16:242.

TYPE LOCALITY: China, Hupei, Ichang.

DISTRIBUTION: C. and S. China; N. Indochina.

COMMENT: May be conspecific with *rufigenis*; see Moore and Tate, 1965, Fieldiana Zool., 48:284, who treated them as separate species.

ISIS NUMBER: 5301410002005004001.

*Dremomys rufigenis* (Blanford, 1878). J. Asiat. Soc. Bengal, 47(2):156.

TYPE LOCALITY: Burma, Tenasserim, Mt. Moolevit.

DISTRIBUTION: N. Burma to Vietnam and peninsular Malaysia.

COMMENT: May include *pyrrhomerus*; see Moore and Tate, 1965, Fieldiana Zool., 48:284, who treated them as separate species.

ISIS NUMBER: 5301410002005005001.

*Epixerus* Thomas, 1909. Ann. Mag. Nat. Hist., 8(3):472.

ISIS NUMBER: 5301410002006000000.

*Epixerus ebii* (Temminck, 1853). Esquisses Zool. sur la Cote de Guine, p. 129.

TYPE LOCALITY: Ghana.

DISTRIBUTION: Sierra Leone to Ghana.

COMMENT: Includes *jonesi*; formerly included *wilsoni*; see Robbins and Schlitter, 1977, Säugetierk. Mitt., 25:22-23.

PROTECTED STATUS: CITES - Appendix III (Ghana).

ISIS NUMBER: 5301410002006001001.

*Epixerus wilsoni* du Chaillu, 1860. Proc. Boston Soc. Nat. Hist., 7:364.

TYPE LOCALITY: Gabon.

DISTRIBUTION: Cameroun to Gabon.

COMMENT: Amtmann, 1975, Part 6.1:6-7, included *wilsoni* with *ebii*, but Robbins and Schlitter, 1977, Säugetierk. Mitt., 25:22-23, recognized *wilsoni* as a distinct species.

ISIS NUMBER: 5301410002006002001.

*Eupetaurus* Thomas, 1888. J. Asiat. Soc. Bengal, 57:256.

ISIS NUMBER: 5301410002042000000.

*Eupetaurus cinereus* Thomas, 1888. J. Asiat. Soc. Bengal, 57:258.

TYPE LOCALITY: Pakistan, Gilgit Valley.

DISTRIBUTION: High elevations in N. Pakistan and Kashmir.

COMMENT: Reviewed by McKenna, 1962, Am. Mus. Novit., 2104:1-38.

ISIS NUMBER: 5301410002042001001.

*Exilisciurus* Moore, 1958. Am. Mus. Novit., 1914:4.

COMMENT: The species included in *Exilisciurus* were formerly included in *Nannosciurus*; see Moore, 1958, Am. Mus. Novit., 1914:1-10, and Moore, 1959, Bull. Am. Mus. Nat. Hist., 118(4):203.

ISIS NUMBER: 5301410002008000000.

*Exilisciurus concinnus* (Thomas, 1888). Ann. Mag. Nat. Hist., ser. 6, 2:407.

TYPE LOCALITY: Philippines, Zamboanga Prov., Basilan Isl.

DISTRIBUTION: Basilan Isl. (Philippines).

COMMENT: Possibly conspecific with *luncefordi*, *samaricus*, and *surrutilus* (LRH).

ISIS NUMBER: 5301410002008001001.

*Exilisciurus exilis* (Muller, 1838). Tijdschr. Nat. Gesch. Physiol., 5:138.

TYPE LOCALITY: Indonesia, Kalimantan, Kapuas River Basin.

DISTRIBUTION: Borneo.

ISIS NUMBER: 5301410002008002001.

*Exilisciurus luncefordi* (Taylor, 1934). Monogr. Bur. Sci. Manila, 30:373.

TYPE LOCALITY: Philippines, Mindanao, Cotabato Dist., Saub.

DISTRIBUTION: S. Mindanao (Philippines).

COMMENT: See comment under *concinnus*.

ISIS NUMBER: 5301410002020001001 as *Nannosciurus luncefordi*.

*Exilisciurus samaricus* (Thomas, 1897). Trans. Zool. Soc. Lond., 14(6):389.

TYPE LOCALITY: Philippines, Samar Isl.

DISTRIBUTION: Samar, Leyte, and adjacent islands (Philippines).

COMMENT: See comment under *concinnus*.

ISIS NUMBER: 5301410002020003001 as *Nannosciurus samaricus*.

*Exilisciurus surrutilus* (Hollister, 1913). Proc. U.S. Nat. Mus., 46:313.

TYPE LOCALITY: Philippines, Zamboanga Prov., Mindanao Isl., Mt. Bliss.

DISTRIBUTION: Mindanao, except southern portion.

COMMENT: See comment under *concinnus*.

ISIS NUMBER: 5301410002020004001 as *Nannosciurus surrutilus*.

*Exilisciurus whiteheadi* (Thomas, 1887). Ann. Mag. Nat. Hist., ser. 5, 20:127.

TYPE LOCALITY: Malaysia, Sabah, Mt. Kinabalu.

DISTRIBUTION: Mountains of Sabah and Sarawak (Malaysia), above 1000 m.

ISIS NUMBER: 5301410002008003001.

*Funambulus* Lesson, 1835. Illustr. de Zool., pl. 43.

COMMENT: Reviewed by Moore, 1960, Syst. Zool., 9:1-17.

ISIS NUMBER: 5301410002009000000.

*Funambulus layardi* (Blyth, 1849). J. Asiat. Soc. Bengal, 18:602.

TYPE LOCALITY: Sri Lanka (=Ceylon), "uplands."

DISTRIBUTION: S. and C. Sri Lanka, and mountains of S. India.

ISIS NUMBER: 5301410002009001001.

*Funambulus palmarum* (Linnaeus, 1766). Syst. Nat., 12th ed., 1:86.

TYPE LOCALITY: India, Madras.

DISTRIBUTION: C. and S. India; Sri Lanka.

ISIS NUMBER: 5301410002009002001.

*Funambulus pennanti* Wroughton, 1905. J. Bombay Nat. Hist. Soc., 16:411.

TYPE LOCALITY: India, Surat Dist., Bundha, Mandvi Taluka.

DISTRIBUTION: E. Iran to Nepal and C. India.

ISIS NUMBER: 5301410002009003001.

*Funambulus sublineatus* (Waterhouse, 1838). Proc. Zool. Soc. Lond., 1838:19.

TYPE LOCALITY: India, Madras, Nilgiri Hills.

DISTRIBUTION: S. India; C. Sri Lanka.

ISIS NUMBER: 5301410002009004001.

*Funambulus tristriatus* (Waterhouse, 1837). Mag. Nat. Hist., n.s., 1:499.

TYPE LOCALITY: India, Western Ghats, south of 12° N.

DISTRIBUTION: West coast of India, from 20° N. to S. tip.

ISIS NUMBER: 5301410002009005001.

- Funisciurus Trouessart*, 1880. *Le Naturaliste*, 2(37):293.  
ISIS NUMBER: 5301410002010000000.
- Funisciurus anerythrus* (Thomas, 1890). *Proc. Zool. Soc. Lond.*, 1890:47.  
TYPE LOCALITY: Uganda, Buquera, S. of Lake Albert.  
DISTRIBUTION: S.W. Nigeria to Central African Republic, N.E. Zaire and Uganda, south to S.W. Zaire and N. Shaba Prov. (Zaire).  
COMMENT: Includes *mystax* and *raptorum*; see Amtmann, 1975, Part 6.1:9.  
ISIS NUMBER: 5301410002010001001 as *F. anerythrus*.  
5301410002010010001 as *F. mystax*.  
5301410002010012001 as *F. raptorum*.
- Funisciurus bayonii* (Bocage, 1890). *J. Sci. Math. Phys. Nat. Lisboa*, 2:3.  
TYPE LOCALITY: N. Angola, Duque de Braganca.  
DISTRIBUTION: N.E. Angola; S.W. Zaire.  
ISIS NUMBER: 5301410002010003001.
- Funisciurus carruthersi* Thomas, 1906. *Ann. Mag. Nat. Hist.*, ser. 7, 18:140.  
TYPE LOCALITY: Uganda, E. Ruwenzori.  
DISTRIBUTION: Ruwenzori (S. Uganda) to Burundi.  
ISIS NUMBER: 5301410002010004001.
- Funisciurus congicus* (Kuhl, 1820). *Beitr. Zool. Vergl. Anat. Abt.*, 2:66.  
TYPE LOCALITY: Congo.  
DISTRIBUTION: Zaire to Namibia.  
ISIS NUMBER: 5301410002010005001.
- Funisciurus isabella* (Gray, 1862). *Proc. Zool. Soc. Lond.*, 1862:180.  
TYPE LOCALITY: Cameroun, Cameroun Mtn.  
DISTRIBUTION: Cameroun to Congo Republic and Central African Republic.  
ISIS NUMBER: 5301410002010006001.
- Funisciurus lemniscatus* (Le Conte, 1857). *Proc. Acad. Nat. Sci. Phila.*, p. 11.  
TYPE LOCALITY: Equatorial Guinea, Rio Muni.  
DISTRIBUTION: S. of Sanaga River (Cameroun) to Zaire and Central African Republic.  
ISIS NUMBER: 5301410002010007001.
- Funisciurus leucogenys* (Waterhouse, 1842). *Ann. Mag. Nat. Hist.*, ser. 1, 10:202.  
TYPE LOCALITY: Equatorial Guinea, Bioko (=Fernando Po).  
DISTRIBUTION: Ghana to Central African Republic to Rio Muni; Bioko.  
COMMENT: Includes *auriculatus*; see Amtmann, 1975, Part 6.1:8.  
ISIS NUMBER: 5301410002010002001 as *F. auriculatus*.
- Funisciurus pyrrhopus* (F. Cuvier, 1833). *In E. Geoffroy and F. Cuvier, Hist. Nat. Mamm.*, 4:Tab. Gen. 4.  
TYPE LOCALITY: Gabon.  
DISTRIBUTION: Gambia to Uganda to Angola.  
COMMENT: Includes *leucostigma* and *mandingo*; see Amtmann, 1975, Part 6.1:8.  
ISIS NUMBER: 5301410002010011001 as *F. pyrrhopus*.  
5301410002010008001 as *F. leugostigma (sic)*.  
5301410002010009001 as *F. mandingo*.
- Funisciurus substriatus* De Winton, 1899. *Ann. Mag. Nat. Hist.*, ser. 7, 4:357.  
TYPE LOCALITY: Ghana, Kintampo.  
DISTRIBUTION: Ivory Coast to Nigeria.  
ISIS NUMBER: 5301410002010013001.
- Glaucomys* Thomas, 1908. *Ann. Mag. Nat. Hist.*, ser. 8, 1:5.  
REVIEWED BY: D. W. Linzey (DWL).  
COMMENT: Revised by Howell, 1918, *N. Am. Fauna*, 44:1-60.  
ISIS NUMBER: 5301410002043000000.
- Glaucomys sabrinus* (Shaw, 1801). *Gen. Zool.*, 2:157.  
TYPE LOCALITY: Canada, Ontario, mouth of Severn River.  
DISTRIBUTION: Alaska and Canada, N.W. U.S.A. to S. California and W. South Dakota (Black Hills), N.E. U.S.A. to S. Appalachian Mtns. (U.S.A.).  
ISIS NUMBER: 5301410002043001001.

- Glaucomys volans* (Linnaeus, 1758). Syst. Nat., 10th ed., 1:63.  
 TYPE LOCALITY: U.S.A., Virginia.  
 DISTRIBUTION: Texas, Kansas, and Minnesota (U.S.A.) to Nova Scotia (Canada) and E. U.S.A.; montane populations scattered from N.W. Mexico to Honduras.  
 COMMENT: Reviewed by Dolan and Carter, 1973, Mamm. Species, 78:1-6.  
 ISIS NUMBER: 5301410002043002001.
- Glyphotes* Thomas, 1898. Ann. Mag. Nat. Hist., ser. 6, 2:251.  
 ISIS NUMBER: 5301410002011000000.
- Glyphotes canalvus* Moore, 1959. Am. Mus. Novit., 1944:5.  
 TYPE LOCALITY: Malaysia, Sabah, Mt. Dulit.  
 DISTRIBUTION: Known only from the type locality.  
 ISIS NUMBER: 5301410002011001001.
- Glyphotes simus* Thomas, 1898. Ann. Mag. Nat. Hist., ser. 6, 2:251.  
 TYPE LOCALITY: Malaysia, Sabah, Mt. Kinabalu.  
 DISTRIBUTION: Mountains of Sabah and Sarawak (Malaysia), above 1000 m.  
 ISIS NUMBER: 5301410002011002001.
- Heliosciurus* Trouessart, 1880. Le Naturaliste, 2nd year, 1:292.  
 COMMENT: Includes *Aethosciurus ruwenzorii*; see Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206.  
 ISIS NUMBER: 5301410002013000000.
- Heliosciurus gambianus* (Ogilby, 1835). Proc. Zool. Soc. Lond., 1835:103.  
 TYPE LOCALITY: Gambia, probably near Fort St. Mary.  
 DISTRIBUTION: Senegal to Ethiopia and Zambia.  
 COMMENT: Includes *punctatus* and *rhodesiae*; see Amtmann, 1975, Part 6.1:4.  
 ISIS NUMBER: 5301410002013001001 as *H. gambianus*.  
 5301410002013004001 as *H. punctatus*.  
 5301410002013005001 as *H. rhodesiae*.
- Heliosciurus rufobrachium* (Waterhouse, 1842). Ann. Mag. Nat. Hist., ser. 1, 10:202.  
 TYPE LOCALITY: Equatorial Guinea, Bioko (Fernando Po).  
 DISTRIBUTION: Senegal to S.E. Sudan and Kenya, south to Mozambique and S.E. Zimbabwe.  
 COMMENT: Includes *mutabilis* and *undulatus*; see Amtmann, 1975, Part 6.1:5.  
 ISIS NUMBER: 5301410002013006001 as *H. rufobrachium*.  
 5301410002013003001 as *H. mutabilis*.  
 5301410002013007001 as *H. undulatus*.
- Heliosciurus ruwenzorii* (Schwann, 1904). Ann. Mag. Nat. Hist., ser. 7, 13:71.  
 TYPE LOCALITY: Uganda, Ruwenzori Mtns.  
 DISTRIBUTION: E. Zaire; Rwanda; Burundi; W. Uganda.  
 COMMENT: Formerly included in *Aethosciurus*, which is here included in *Paraxerus*; see Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206.
- Hylopetes* Thomas, 1908. Ann. Mag. Nat. Hist., 1:6.  
 COMMENT: Includes *Eoglaucomys*; see McLaughlin, 1967, in Anderson and Jones, p. 215, but also see McKenna, 1962, Am. Mus. Novit., 2104:1-38.  
 ISIS NUMBER: 5301410002044000000.
- Hylopetes alboniger* (Hodgson, 1836). J. Asiat. Soc. Bengal, 5:231.  
 TYPE LOCALITY: Nepal.  
 DISTRIBUTION: Nepal to Szechwan, Yunnan, and Hainan (China) and Indochina.  
 ISIS NUMBER: 5301410002044001001.
- Hylopetes electilis* (G. M. Allen, 1925). Am. Mus. Novit., 163:16.  
 TYPE LOCALITY: China, Hainan Isl., Namfong.  
 DISTRIBUTION: Hainan Isl. and Fukien (China).  
 COMMENT: Included in *Petinomys* by most authors, but see McKenna, 1962, Am. Mus. Novit., 2104:35.  
 ISIS NUMBER: 5301410002048002001.



*Hylopetes fimbriatus* (Gray, 1837). Ann. Mag. Nat. Hist., 1:584.

TYPE LOCALITY: India, Punjab, Simla.

DISTRIBUTION: Afghanistan to Kashmir and Punjab (India).

COMMENT: Placed in monotypic genus *Eoglaucmys* by McKenna, 1962, Am. Mus.

Novit., 2104:1-38, and others, but included in *Hylopetes* by McLaughlin, 1967, in Anderson and Jones, p. 215.

ISIS NUMBER: 5301410002044002001.

*Hylopetes lepidus* (Horsfield, 1822). Zool. Res. Java, 5.

TYPE LOCALITY: Indonesia, Java.

DISTRIBUTION: Thailand to Java; Borneo.

COMMENT: New name for the species formerly called *sagitta*; see Medway, 1977:104.

Includes *platyurus*; see Hill, 1961, Ann. Mag. Nat. Hist., ser. 13, 4:730, and Medway, 1977:104. Corbet and Hill, 1980:131, listed *platyurus* as a distinct species, without comment.

ISIS NUMBER: 5301410002044004001 as *H. lepidus*.

5301410002044007001 as *H. sagitta*.

*Hylopetes mindanensis* (Rabor, 1939). Philipp. J. Sci., 69:389.

TYPE LOCALITY: Philippines, Mindanao Prov., Misamis Oriental, Gingoog, Badiangan.

DISTRIBUTION: Known only from the type locality.

COMMENT: Holotype destroyed during World War II; status uncertain, possibly allied to *Petinomys crinitus* (LRH).

*Hylopetes nigripes* Thomas, 1893. Ann. Mag. Nat. Hist., ser. 6, 12:30.

TYPE LOCALITY: Philippines, Palawan, Puerta Princesa.

DISTRIBUTION: Palawan (Philippines).

ISIS NUMBER: 5301410002044005001.

*Hylopetes phayrei* (Blyth, 1859). J. Asiat. Soc. Bengal, 28:278.

TYPE LOCALITY: Burma, Rangoon.

DISTRIBUTION: Burma; Thailand; Laos.

ISIS NUMBER: 5301410002044006001.

*Hylopetes sipora* Chasen, 1940. Bull. Raffles Mus., 15:117.

TYPE LOCALITY: Indonesia, Sumatra, Mentawi Isls., Sipora Isl.

DISTRIBUTION: Known only from the type locality.

COMMENT: Formerly included in *spadiceus*; see Hill, 1961, Ann. Mag. Nat. Hist., ser.

13, 4:731-733, who noted that an adult specimen is needed to clarify the status of this form.

*Hylopetes spadiceus* (Blyth, 1847). J. Asiat. Soc. Bengal, 16:867.

TYPE LOCALITY: Burma, Arakan.

DISTRIBUTION: Burma, Thailand, Indochina and Malaysia.

COMMENT: Includes *harrisoni*; see Medway, 1977:105. Formerly included *sipora*; see

Hill, 1961, Ann. Mag. Nat. Hist., ser. 13, 4:731-733. Corbet and Hill, 1980:137, listed *spadiceus* in *lepidus*, without comment.

ISIS NUMBER: 5301410002044008001 as *H. spadiceus*.

5301410002044003001 as *H. harrisoni*.

*Hyosciurus* Tate and Archbold, 1935. Am. Mus. Novit., 801:2.

ISIS NUMBER: 5301410002014000000.

*Hyosciurus heinrichi* Tate and Archbold, 1935. Am. Mus. Novit., 801:2.

TYPE LOCALITY: Indonesia, S. Sulawesi, Latimodjong Mtns.

DISTRIBUTION: Mountains of Sulawesi.

ISIS NUMBER: 5301410002014001001.

*Iomys* Thomas, 1908. Ann. Mag. Nat. Hist., ser. 8, 1:1.

ISIS NUMBER: 5301410002045000000.

*Iomys horsfieldii* (Waterhouse, 1838). Proc. Zool. Soc. Lond., 1837:87.

TYPE LOCALITY: Indonesia, Java.

DISTRIBUTION: Malay Peninsula to Java; Mentawi Isls.; Borneo.

ISIS NUMBER: 5301410002045001001.

*Lariscus* Thomas and Wroughton, 1909. Proc. Zool. Soc. Lond., 1909:389.  
 ISIS NUMBER: 5301410002015000000.

*Lariscus hosei* (Thomas, 1892). Ann. Mag. Nat. Hist., ser. 6, 10:215.

TYPE LOCALITY: Malaysia, Sarawak, Baram Dist., Mt. Batu Song.

DISTRIBUTION: Mountains of Sarawak and Sabah (Malaysia).

COMMENT: Sometimes put in the genus *Paralariscus*; see Ellerman, 1947, J. Mammal., 28:249-278; but also see Medway, 1977:97.

PROTECTED STATUS: CITES - Appendix II.

ISIS NUMBER: 5301410002015001001.

*Lariscus insignis* (F. Cuvier, 1821). In E. Geoffroy St. Hilaire and F. Cuvier, Hist. Nat. Mamm., 2:2.

TYPE LOCALITY: Indonesia, Sumatra, "lowlands".

DISTRIBUTION: Malay Peninsula; Sumatra; Java; Borneo; adjacent Isls.

COMMENT: Includes *niobe* and *obscurus* from the Mentawi Isls.; see Chasen, 1940:145-146. Corbet and Hill, 1980:133, listed *niobe* as a distinct species, without comment; LRH considers *niobe* a distinct species.

ISIS NUMBER: 5301410002015002001 as *L. insignis*.

5301410002015003001 as *L. niobe*.

5301410002015004001 as *L. obscurus*.

*Marmota* Blumenbach, 1779. Hand. Hilfsb. Nat., 1:79.

COMMENT: North American species reviewed by Howell, 1915, N. Am. Fauna, 37:1-80; Eurasian species revised by Gromov *et al.*, 1965; amphiberian species reviewed by Hoffmann *et al.*, 1979, Occas. Pap. Mus. Nat. Hist. Univ. Kans., 83:1-56. Frase and Hoffmann, 1980, Mamm. Species, 135:1-8, provided a key to N. American species.

ISIS NUMBER: 5301410002016000000.

*Marmota baibacina* Kastschenko, 1899. Res. Altaisk. Exp., p. 63.

TYPE LOCALITY: U.S.S.R., R.S.F.S.R., Altaisk. Krai, Gorno-Altai. A.O., near Cherga, or, alternatively, Multa River, near Nizhne-Uimon.

DISTRIBUTION: Altai Mtns., S.E. Kazakhstan, Kirgizia, S.W. Siberia (U.S.S.R.); Mongolia; Sinkiang (China). Introduced into Caucasus Mtns. (U.S.S.R.).

COMMENT: Placed by Ellerman and Morrison-Scott, 1951:514, in *marmota*, and by Corbet, 1978:81, in *bobak*; Kapitonov, 1966, Trud. Inst. Zool. Kazakh. Akad. Nauk, 26:94-134, analyzed purported hybridization between *baibacina* and *bobak*. Most Soviet authors retain both as distinct species; see Gromov *et al.*, 1965:337-387, and Zimina, ed., 1978, [Marmots. Distribution and Ecology], "Nauka," Moscow, who included *centralis* in this species. Kapitonov, 1966, Trud. Inst. Zool. Kazakh. Akad. Nauk, 26:94-134, indicated that the population called *aphanasievi* is included in this species; but also see Corbet, 1978:81. Includes *lewisi*, a *nomen oblitum*; see Hoffmann, 1977, Proc. Biol. Soc. Wash., 90:291-301. See Bobrinskii *et al.*, 1965, [Key to the mammals of the U.S.S.R.], "Proveshchenie," Moscow, p. 259, and Ognev, 1947, [Mamm. U.S.S.R., Adjac. Count.], Acad. Sci., Moscow, p. 292, for discussion of alternative type localities.

*Marmota bobak* (Muller, 1776). Natursyst. Suppl., p. 40.

TYPE LOCALITY: U.S.S.R., Ukrain. S.S.R., right (W) bank of Dnepr River, (originally "Poland").

DISTRIBUTION: Steppes of E. Europe, east to N. and C. Kazakhstan (U.S.S.R.).

COMMENT: See comments under *baibacina*, *himalayana*, and *sibirica*. Includes *kozlovi*; see Fokanov, 1966, Zool. Zh., 45:1864; and *tshaganensis*; see Gromov *et al.*, 1965:337-387.

ISIS NUMBER: 5301410002016001001.

*Marmota broweri* Hall and Gilmore, 1934. Can. Field Nat., 48:57.

TYPE LOCALITY: U.S.A., Alaska, head of Kukpowruk River, "Point Lay."

DISTRIBUTION: Brooks Range of N. Alaska (U.S.A.) from near coast of Chukchi Sea to Alaska-Yukon border; perhaps also N. Yukon (Canada).

COMMENT: Regarded by Hall and Kelson, 1959, and Hall, 1981, as a synonym of

- caligata*, but Rausch and Rausch, 1971, *Mammalia*, 35:85-101, and Hoffmann *et al.*, 1979, *Occas. Pap. Mus. Nat. Hist. Univ. Kans.*, 83:1-56, considered *broweri* a distinct species. Type locality restricted by Rausch, 1953, *Arctic*, 6:117.
- Marmota caligata* (Eschscholtz, 1829). *Zool. Atlas*, Part 2, p. 1, pl. 6.  
TYPE LOCALITY: U.S.A., Alaska, near Bristol Bay.  
DISTRIBUTION: C. Alaska (U.S.A.), Yukon and Northwest Territories (Canada) south to W. and N.E. Washington, C. Idaho, and W. Montana (U.S.A.).  
ISIS NUMBER: 5301410002016002001.
- Marmota camtschatica* (Pallas, 1811). *Zoogr. Rosso-Asiat.*, p. 156.  
TYPE LOCALITY: U.S.S.R., R.S.F.S.R., Kamchatsk. Obl.  
DISTRIBUTION: E. Siberia from Transbaikalia to Chukotka and Kamchatka (U.S.S.R.).  
COMMENT: Hoffmann *et al.*, 1979, *Occas. Pap. Mus. Nat. Hist. Univ. Kans.*, 83:1-56, reviewed this species. Regarded by Ellerman and Morrison-Scott, 1951, and Rausch, 1953, *Arctic*, 6:91-148, as a synonym of *marmota*.
- Marmota caudata* (Geoffroy, 1842-1843). *In Jacquemont, Voy. dans l'Inde*, 4, *Zool.*, p. 66.  
TYPE LOCALITY: India, Kashmir, upper Indus River, Ghombur.  
DISTRIBUTION: W. Tien Shan through the Pamirs to Hindu Kush and Kashmir.  
COMMENT: Includes *dichrous*; see Corbet, 1978:82; but also see Gromov *et al.*, 1965:440.  
ISIS NUMBER: 5301410002016003001.
- Marmota flaviventris* (Audubon and Bachman, 1841). *Proc. Acad. Nat. Sci. Phila.*, 1:99.  
TYPE LOCALITY: U.S.A., Oregon, Mt. Hood, "mountains between Texas and California."  
DISTRIBUTION: S.C. British Columbia and S. Alberta (Canada) south to N. New Mexico, S. Utah, Nevada, and California (U.S.A.).  
COMMENT: Reviewed by Frase and Hoffmann, 1980, *Mamm. Species*, 135:1-8.  
ISIS NUMBER: 5301410002016004001.
- Marmota himalayana* (Hodgson, 1841). *J. Asiat. Soc. Bengal*, 10:777.  
TYPE LOCALITY: Nepal.  
DISTRIBUTION: Montane regions of W. China, Nepal, and N. India to Ladak.  
COMMENT: Placed by Ellerman and Morrison-Scott, 1951:515, and Corbet, 1978:81, in *bobak*, but geographically separated from that species; evidence for specific status in Gromov *et al.*, 1965:332-356; see comment under *baibacina*.
- Marmota marmota* (Linnaeus, 1758). *Syst. Nat.*, 10th ed., 1:60.  
TYPE LOCALITY: "Alps".  
DISTRIBUTION: Swiss, Italian, and French Alps; Austria, S. Germany; Carpathian and Tatra Mtns.; introduced into Pyrennes.  
ISIS NUMBER: 5301410002016005001.
- Marmota menzbieri* (Kashkarov, 1925). *Trans. Turk. Sci. Soc.*, 2:47.  
TYPE LOCALITY: U.S.S.R., Kazakh. S.S.R., Yuzhno-Kazakhstansk. Obl., Talassk. Alatau Mtns., Chigyr-Tash, on upper Ugama River.  
DISTRIBUTION: W. Tien Shan Mtns., in S. Kazakhstan and N.W. Kirgizia (U.S.S.R.).  
COMMENT: Regarded by Ellerman and Morrison-Scott, 1951:514, as a synonym of *marmota*, but see Corbet, 1978:81.
- Marmota monax* (Linnaeus, 1758). *Syst. Nat.*, 10th ed., 1:60.  
TYPE LOCALITY: U.S.A., Maryland.  
DISTRIBUTION: Alaska (U.S.A.) through S. Canada to S. Labrador to N.E. and S.C. U.S.A.; south in Rocky Mtns., possibly to N. Idaho.  
ISIS NUMBER: 5301410002016006001.
- Marmota olympus* (Merriam, 1898). *Proc. Acad. Nat. Sci. Phila.*, 50:352.  
TYPE LOCALITY: U.S.A., Washington, timberline at head of Soleduc River, Olympic Mtns.  
DISTRIBUTION: Olympic Mtns. of W. Washington (U.S.A.).  
COMMENT: Reviewed by Hoffmann *et al.*, 1979, *Occas. Pap. Mus. Nat. Hist. Univ. Kans.*, 83:1-56.  
ISIS NUMBER: 5301410002016007001.

- Marmota sibirica* (Radde, 1862). Reise Sud. Ost. Sibir., p. 159.  
 TYPE LOCALITY: U.S.S.R., R.S.F.S.R., Chitinsk Obl., near Tarei-Nor (Lake).  
 DISTRIBUTION: S.W. Siberia, Tuva, Transbaikalia (U.S.S.R.); N. and W. Mongolia; Heilungkiang and Inner Mongolia; formerly Manchuria (China).  
 COMMENT: Placed (with *baibacina* and *himalayana*) by Ellerman and Morrison-Scott, 1951:515, and Corbet, 1978:81, in *bobak*. Gromov *et al.*, 1965:337-415, and Zimina, ed., 1978, [Marmots. Distribution and Ecology], "Nauka," Moscow, provided evidence of specific distinctness and included *caliginosus* in this species; see comment under *baibacina*. Nikol'skii, 1974, Zool. Zh., 53:436-444, analyzed contact between *baibacina* and *sibirica* in Tuva; Sokolov and Orlov, 1980:329, also indicated sympatry in N.W. Mongolia.
- Marmota vancouverensis* Swarth, 1911. Univ. Calif. Publ. Zool., 7:201.  
 TYPE LOCALITY: Canada, British Columbia, Vancouver Isl., Mt. Douglas.  
 DISTRIBUTION: Mountains of Vancouver Isl. (British Columbia, Canada).  
 COMMENT: Reviewed by Hoffmann *et al.*, 1979, Occas. Pap. Mus. Nat. Hist. Univ. Kans., 83:1-56.  
 ISIS NUMBER: 5301410002016008001.
- Menetes* Thomas, 1908. J. Bombay Nat. Hist. Soc., 18:244.  
 ISIS NUMBER: 5301410002017000000.
- Menetes berdmorei* (Blyth, 1849). J. Asiat. Soc. Bengal, 18(30):600-603.  
 TYPE LOCALITY: Burma, Tenasserim, Thougyeen Dist.  
 DISTRIBUTION: Indochina; Thailand; Burma; Yunnan (China).  
 ISIS NUMBER: 5301410002017001001.
- Microsciurus* J. A. Allen, 1895. Bull. Am. Mus. Nat. Hist., 7:332.  
 ISIS NUMBER: 5301410002018000000.
- Microsciurus alfari* (J. A. Allen, 1895). Bull. Am. Mus. Nat. Hist., 7:333.  
 TYPE LOCALITY: Costa Rica, Jimenez.  
 DISTRIBUTION: S. Central America; perhaps in N. South America.  
 COMMENT: Apparently included in *flaviventer* by Cabrera, 1961:355; but see Hall, 1981:439-440.  
 ISIS NUMBER: 5301410002018001001.
- Microsciurus flaviventer* (Gray, 1867). Ann. Mag. Nat. Hist., ser. 20, 3:432.  
 TYPE LOCALITY: Brazil.  
 DISTRIBUTION: Upper Amazon River Basin, from the Rio Negro to Peru, the Andes of Peru, Ecuador and Colombia.  
 COMMENT: Formerly included *alfari* and *mimulus*; see comments under those species.  
 ISIS NUMBER: 5301410002018003001.
- Microsciurus mimulus* (Thomas, 1898). Ann. Mag. Nat. Hist., ser. 7, 2:266.  
 TYPE LOCALITY: Ecuador, Esmeraldas, Cachavi, 665 ft. (203 m).  
 DISTRIBUTION: N.W. Ecuador, W. Colombia, and Panama.  
 COMMENT: Includes *boquetensis* and *isthmus*; see Handley, 1966, in Wenzel and Tipton, Ectoparasites of Panama, p. 777. Cabrera, 1961:356, included *mimulus* in *flaviventer*; but see Hall, 1981:440.  
 ISIS NUMBER: 5301410002018002001 as *M. boquetensis*.  
 5301410002018004001 as *M. isthmus*.
- Microsciurus santanderensis* (Hernandez-Camacho, 1957). An. Soc. Biol. Bogota, 7:219.  
 TYPE LOCALITY: Colombia, Santander Dept., Meseta de los Caballeros, N.E. of La Albania.  
 DISTRIBUTION: Colombia, between the Magdalena River and the Cordillera Oriental.  
 COMMENT: Originally described as a subspecies of *Sciurus pucheranii*; see Hernandez-Camacho, 1960, Caldasia, 8:359-368.
- Myosciurus* Thomas, 1909. Ann. Mag. Nat. Hist., ser. 8, 3:474.  
 ISIS NUMBER: 5301410002019000000.

*Myosciurus pumilio* (Le Conte, 1857). Proc. Acad. Nat. Sci. Phila., 9:11.

TYPE LOCALITY: Gabon.

DISTRIBUTION: S.E. Nigeria; Cameroun; Gabon; Bioko.

ISIS NUMBER: 5301410002019001001.

*Nannosciurus Trouessart*, 1880. Le Naturaliste, p. 292.

COMMENT: Formerly included the species now placed in *Exilisciurus*; see Moore, 1958, Am. Mus. Novit., 1914:1-5.

ISIS NUMBER: 5301410002020000000.

*Nannosciurus melanotis* (Muller, 1844). In Temminck, Verhandl. Nat. Gesch. Nederland Overz. Bezitt., Zool., pp. 87, 98.

TYPE LOCALITY: Indonesia, Java.

DISTRIBUTION: Sumatra; Java; Borneo; adjacent small islands.

ISIS NUMBER: 5301410002020002001.

*Paraxerus Forsyth Major*, 1893. Proc. Zool. Soc. Lond., 1893:189.

COMMENT: Includes *Aethosciurus* (with the exception of *ruwenzorii*, here included in *Heliosciurus*) and *Tamiscus*; see Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206.

ISIS NUMBER: 5301410002021000000.

*Paraxerus alexandri* (Thomas and Wroughton, 1907). Ann. Mag. Nat. Hist., ser. 7, 19:376.

TYPE LOCALITY: Zaire, Gudima, River Iri, Upper Welle.

DISTRIBUTION: N.E. Zaire, Uganda.

ISIS NUMBER: 5301410002021001001.

*Paraxerus boehmi* (Reichenow, 1886). Zool. Anz., 9:315.

TYPE LOCALITY: S. Zaire, Marungu.

DISTRIBUTION: E. and C. Africa.

COMMENT: Includes *antoniae*, *emini*, and *vulcanorum*; see Amtmann, 1975, Part 6.1:10.

ISIS NUMBER: 5301410002021003001 as *P. boehmi*.

5301410002021002001 as *P. antoniae*.

5301410002021006001 as *P. emini*.

5301410002021012001 as *P. vulcanorum*.

*Paraxerus cepapi* (A. Smith, 1836). Rept. Exped. Expl. C. Afr., p. 43.

TYPE LOCALITY: South Africa, W. Transvaal, Rustenberg Dist., Marico River.

DISTRIBUTION: S. Angola to S. Tanzania to Transvaal (South Africa).

ISIS NUMBER: 5301410002021005001.

*Paraxerus cooperi* Hayman, 1950. Ann. Mag. Nat. Hist., ser. 12, 3:262.

TYPE LOCALITY: Cameroun, Kumba Div., Rumpi Hills, 5° N., 9° 15' E.

DISTRIBUTION: Cameroun.

COMMENT: Eisentraut, 1976, Bonn. Zool. Monogr., 8, put *cooperi* in a separate genus, *Montisciurus*; but see Corbet and Hill, 1980:131.

*Paraxerus flavivittis* (Peters, 1852). Monatsb. Preuss. Akad. Wiss. Berlin, p. 274.

TYPE LOCALITY: N.E. Mozambique, Mocambo (=Mossimboa), 11° S., on the coast.

DISTRIBUTION: N. Mozambique to S. Kenya.

ISIS NUMBER: 5301410002021007001.

*Paraxerus lucifer* (Thomas, 1897). Proc. Zool. Soc. Lond., 1897:430.

TYPE LOCALITY: Malawi, Kombe Forest, Misuku Mtns., 9° 43' S., 33° 31' E.

DISTRIBUTION: N. Malawi; S.W. Tanzania; E. Zambia.

ISIS NUMBER: 5301410002013002001 as *Heliosciurus lucifer*.

*Paraxerus ochraceus* (Huet, 1880). Nouv. Arch. Mus. Hist. Nat. Paris, p. 154.

TYPE LOCALITY: Tanzania, Bagamoyo, near Dar-es-Salaam.

DISTRIBUTION: Tanzania to S. Sudan and Ethiopia.

ISIS NUMBER: 5301410002021008001.

*Paraxerus palliatus* (Peters, 1852). Monatsb. Preuss. Akad. Wiss. Berlin, p. 273.

TYPE LOCALITY: Mozambique, "Quintangonha," mainland near Mocambique Isl.

DISTRIBUTION: Natal (South Africa) to Somalia.

- COMMENT: Includes *sponsus*; see Amtmann, 1975, Part 6.1:10.  
 ISIS NUMBER: 5301410002021009001 as *P. palliatus*.  
 5301410002021010001 as *P. sponsus*.
- Paraxerus poensis* (A. Smith, 1830). S. Afr. Quart. J., 2:128.  
 TYPE LOCALITY: Equatorial Guinea, Bioko (=Fernando Po).  
 DISTRIBUTION: Sierra Leone to Zaire.
- Paraxerus vexillarius* (Kershaw, 1923). Ann. Mag. Nat. Hist., ser. 9, 11:591.  
 TYPE LOCALITY: Tanzania, Usambara.  
 DISTRIBUTION: C. and E. Tanzania.  
 COMMENT: Includes *byatti*; see Amtmann, 1975, Part 6.1:10.  
 ISIS NUMBER: 5301410002021004001 as *P. byatti*.
- Paraxerus vincenti* Hayman, 1950. Ann. Mag. Nat. Hist., 3:263.  
 TYPE LOCALITY: Mozambique, Namuli Mtn., north of the Zambezi, 15° 21' S., 37° 4' E.  
 DISTRIBUTION: N. Mozambique.  
 COMMENT: Perhaps a race of *vexillarius*; see Corbet and Hill, 1980:131.  
 ISIS NUMBER: 5301410002021011001 as *P. vincenti* (*sic*).
- Petaurillus* Thomas, 1908. Ann. Mag. Nat. Hist., ser. 8, 1:3.  
 ISIS NUMBER: 5301410002046000000.
- Petaurillus emiliae* Thomas, 1908. Ann. Mag. Nat. Hist., ser. 8, 1:8.  
 TYPE LOCALITY: Malaysia, Sarawak, Baram.  
 DISTRIBUTION: Sarawak (Malaysia).  
 ISIS NUMBER: 5301410002046001001.
- Petaurillus hosei* (Thomas, 1900). Ann. Mag. Nat. Hist., ser. 7, 5:275.  
 TYPE LOCALITY: Malaysia, Sarawak, Baram, Toyul River.  
 DISTRIBUTION: Sarawak (Malaysia).  
 ISIS NUMBER: 5301410002046002001.
- Petaurillus kinlochii* (Robinson and Kloss, 1911). J. Fed. Malay St. Mus., 4:171.  
 TYPE LOCALITY: Malaysia, Selangor, Kapar.  
 DISTRIBUTION: Selangor (Malay Peninsula).  
 ISIS NUMBER: 5301410002046003001.
- Petaurista* Link, 1795. Zool. Beytr., 1(2):52, 78.  
 ISIS NUMBER: 5301410002047000000.
- Petaurista alborufus* (Milne-Edwards, 1870). C. R. Acad. Sci. Paris, 70:342.  
 TYPE LOCALITY: China, Szechwan, Moupin.  
 DISTRIBUTION: Taiwan; S. and C. China to Thailand and N.E. India.  
 COMMENT: Includes *lena* which was treated as a separate species by Kuntz and Ming, 1970, Quart. J. Taiwan Mus., 23; see Jones, 1975, Quart. J. Taiwan Mus., 28:192, 207. Provisionally includes *pectoralis*; see Ellerman and Morrison-Scott, 1966:465.  
 ISIS NUMBER: 5301410002047001001.
- Petaurista elegans* (Muller, 1839). In Temminck, Verhandl. Nat. Gesch. Nederland. Overz. Bezitt., Zool., pp. 107, 112.  
 TYPE LOCALITY: Indonesia, Nusa Kambangan Isl., off S. Java.  
 DISTRIBUTION: Nepal to Szechwan and Yunnan (China) and Java; Borneo.  
 COMMENT: Includes *clarkei* and *marica*; see Ellerman and Morrison-Scott, 1966:460-461.  
 ISIS NUMBER: 5301410002047002001.
- Petaurista leucogenys* (Temminck, 1827). Monogr. Mamm., 1:27.  
 TYPE LOCALITY: Japan, Kyushu, Higo.  
 DISTRIBUTION: Japan, except Hokkaido; Kansu to Yunnan (China).  
 COMMENT: Includes *xanthotis*, which was considered a separate species by McKenna, 1962, Am. Mus. Novit., 2104:1-38; see Corbet, 1978:86.  
 ISIS NUMBER: 5301410002047003001.

- Petaurista magnificus* (Hodgson, 1836). J. Asiat. Soc. Bengal, 5:231.  
 TYPE LOCALITY: Nepal.  
 DISTRIBUTION: Tibet (China); Nepal; Sikkim (India).  
 COMMENT: Includes *nobilis*, see Ellerman and Morrison-Scott, 1966:464; but also see Ghose and Saha, 1981, J. Bombay Nat. Hist. Soc., 78:95.  
 ISIS NUMBER: 5301410002047004001.
- Petaurista petaurista* (Pallas, 1766). Misc. Zool., p. 54.  
 TYPE LOCALITY: Indonesia, W. Java.  
 DISTRIBUTION: Kashmir (India) to Sri Lanka; C. and S.E. China; Taiwan and Java.  
 COMMENT: Includes *hainana* and *yunanensis*; see Ellerman and Morrison-Scott, 1966:462. Includes *grandis* which was treated as a separate species by Kuntz and Ming, 1970, Quart. J. Taiwan Mus., 23; see Jones, 1975, Quart. J. Taiwan Mus., 28:193, 207.  
 ISIS NUMBER: 5301410002047005001.
- Petinomys* Thomas, 1908. Ann. Mag. Nat. Hist., 1:6.  
 COMMENT: Formerly included *electilis*, here included in *Hylopetes*; see McKenna, 1962, Am. Mus. Novit., 2104:35.  
 ISIS NUMBER: 5301410002048000000.
- Petinomys bartelsi* Chasen, 1939. Treubia, 17:185.  
 TYPE LOCALITY: Indonesia, Java, Mt. Pangrango.  
 DISTRIBUTION: Java.
- Petinomys crinitus* Hollister, 1911. Proc. Biol. Soc. Wash., 24:185.  
 TYPE LOCALITY: Philippines, Basilan Isl.  
 DISTRIBUTION: Basilan and Mindanao Isls. (Philippines).  
 ISIS NUMBER: 5301410002048001001.
- Petinomys fuscocapillus* (Jerdon, 1847). J. Asiat. Soc. Bengal, 16:867.  
 TYPE LOCALITY: S. India, Travancore.  
 DISTRIBUTION: S. India; Sri Lanka.  
 ISIS NUMBER: 5301410002048003001.
- Petinomys genibarbis* (Horsfield, 1824). Zool. Res. Java, (descrip. and plate).  
 TYPE LOCALITY: Indonesia, E. Java.  
 DISTRIBUTION: Malaya to Sumatra, Java, and Borneo.  
 COMMENT: Probably conspecific with *sagitta*; see Medway, 1977:102.  
 ISIS NUMBER: 5301410002048004001.
- Petinomys hageni* (Jentink, 1888). Notes Leyden Mus., 11:26.  
 TYPE LOCALITY: Indonesia, Sumatra, Deli.  
 DISTRIBUTION: Borneo; Sumatra; Mentawi Isls.  
 ISIS NUMBER: 5301410002048005001.
- Petinomys sagitta* (Linnaeus, 1766). Syst. Nat., 12th ed., 1:88.  
 TYPE LOCALITY: Indonesia, Java.  
 DISTRIBUTION: Java.  
 COMMENT: Formerly included in *Hylopetes*; see Medway, 1977:102. May be conspecific with *genibarbis*; see Ellerman and Morrison-Scott, 1955, Suppl. to Chasen, (1940), Handlist of Malaysian Mamm., p. 31. Medway, 1977:102, considered it inadvisable to synonymize *sagitta* and *genibarbis* until the relationship has been certainly established.
- Petinomys setosus* (Temminck, 1845). Fauna Japonica, 1(Mamm.), p. 49.  
 TYPE LOCALITY: Indonesia, W. Sumatra, Padang.  
 DISTRIBUTION: Burma; Malaya; Sumatra; Borneo.  
 COMMENT: Includes *morrissi*; see Muul and Thonglongya, 1971, J. Mammal., 52:362-369, and Corbet and Hill, 1980:137. McKenna, 1962, Am. Mus. Novit., 2104:1-38, considered *morrissi* assignable to a distinct genus, *Olisthomys*.  
 ISIS NUMBER: 5301410002048006001.

- Petinomys vordermanni* (Jentink, 1890). Notes Leyden Mus., 12:150.  
 TYPE LOCALITY: Indonesia, Belitung (=Billiton) Isl.  
 DISTRIBUTION: S. Burma; Malaya; Borneo.  
 COMMENT: McKenna, 1962, Am. Mus. Novit., 2104:1-38, considered *vordermanni* representative of an undescribed genus, but Muul and Thonglongya, 1971, J. Mammal., 52:362, and Hill, 1961, Ann. Mag. Nat. Hist., ser. 13, 4:733-735, retained it in *Petinomys*.  
 ISIS NUMBER: 5301410002048007001.
- Prosciurillus Ellerman*, 1947. Proc. Zool. Soc. Lond., 1947-1948:259.  
 COMMENT: Reviewed by Moore, 1958, Am. Mus. Novit., 1890:1-5, who transferred *leucomus* from *Callosciurus* to this genus.  
 ISIS NUMBER: 5301410002022000000.
- Prosciurillus abstrusus* Moore, 1958. Am. Mus. Novit., 1890:3.  
 TYPE LOCALITY: Indonesia, S.E. Sulawesi, Gunong Tanke Salokko, 3° 40' S., 121° 13' E.  
 DISTRIBUTION: Known only from the type locality.  
 COMMENT: Includes *obscurus*; see Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:203. *P. obscurus* is probably a *nomen nudum* (RSH).  
 ISIS NUMBER: 5301410002022003001 as *P. obscurus*.
- Prosciurillus leucomus* (Forsten, 1839). In Temminck, Verhandl. Nat. Gesch. Nederland Overz. Bezitt., Zool., 1:87.  
 TYPE LOCALITY: Indonesia, N.E. Sulawesi, Minahassa.  
 DISTRIBUTION: Sulawesi; Sangihe (=Sanghir) Isls.  
 COMMENT: Includes *mowewensis* and *serassinorum*, which were formerly included in *Callosciurus*; see Moore, 1958, Am. Mus. Novit., 1890:2. Includes *elbertae* (LRH); Moore, 1958, Am. Mus. Novit., 1890:1-5, did not specifically mention *elbertae*, but probably intended to include it in *leucomus*.  
 ISIS NUMBER: 5301410002022001001.
- Prosciurillus murinus* (Forsten, 1844). In Temminck, Verhandl. Nat. Gesch. Nederland Overz. Bezitt., Zool., 1:87.  
 TYPE LOCALITY: Indonesia, N.E. Sulawesi.  
 DISTRIBUTION: N.E. and C. Sulawesi.  
 ISIS NUMBER: 5301410002022002001.
- Protoxerus* Forsyth Major, 1893. Proc. Zool. Soc. Lond., 1893:189.  
 ISIS NUMBER: 5301410002023000000.
- Protoxerus aubinnii* (Gray, 1873). Ann. Mag. Nat. Hist., ser. 4, 12:65.  
 TYPE LOCALITY: Ghana, Ashanti, Fantree.  
 DISTRIBUTION: Liberia to Ghana.  
 COMMENT: Subgenus *Allosciurus*; see Amtmann, 1975, Part 6.1:6.
- Protoxerus stangeri* (Waterhouse, 1843). Proc. Zool. Soc. Lond., 1842:127.  
 TYPE LOCALITY: Equatorial Guinea, Bioko (=Fernando Po).  
 DISTRIBUTION: Sierra Leone to Kenya and Angola; Bioko.  
 COMMENT: Subgenus *Protoxerus*; see Amtmann, 1975, Part 6.1:6.  
 ISIS NUMBER: 5301410002023001001.
- Pteromys* G. Cuvier, 1800. Lecon's Anat. Comp., I, tab. 1.  
 ISIS NUMBER: 5301410002049000000.
- Pteromys momonga* Temminck, 1845. Fauna Japonica, 1(Mamm.), p. 47.  
 TYPE LOCALITY: Japan, Kyushu.  
 DISTRIBUTION: Kyushu and Honshu (Japan).  
 ISIS NUMBER: 5301410002049001001.
- Pteromys volans* (Linnaeus, 1758). Syst. Nat., 10th ed., 1:64.  
 TYPE LOCALITY: Sweden, middle part.  
 DISTRIBUTION: Palearctic taiga, from Scandinavia east to Chukotka; south to E. Baltic, S. Ural Mtns., Altai Mtns., Mongolia, N. China, Korea, Sakhalin Isl. (U.S.S.R.), and Hokkaido (Japan); perhaps mountains of W. China.  
 ISIS NUMBER: 5301410002049002001.



- Pteromyscus* Thomas, 1908. Ann. Mag. Nat. Hist., ser. 8, 1:3.  
 ISIS NUMBER: 5301410002050000000.
- Pteromyscus pulverulentus* (Gunther, 1873). Proc. Zool. Soc. Lond., 1873:413.  
 TYPE LOCALITY: Malaysia, Penang.  
 DISTRIBUTION: S. Thailand to Sumatra; Borneo.  
 ISIS NUMBER: 5301410002050001001.
- Ratufa* Gray, 1867. Ann. Mag. Nat. Hist., ser. 3, 20:273.  
 ISIS NUMBER: 5301410002024000000.  
 PROTECTED STATUS: CITES - Appendix II.
- Ratufa affinis* (Raffles, 1821). Trans. Linn. Soc. Lond., 13:259.  
 TYPE LOCALITY: Malaysia, Singapore.  
 DISTRIBUTION: Malaysian subregion (except S.W. Philippines).  
 PROTECTED STATUS: CITES - Appendix II as *Ratufa* spp.  
 ISIS NUMBER: 5301410002024001001.
- Ratufa bicolor* (Sparman, 1778). Samhelle Hand. (Wet. Afd.), 1:70.  
 TYPE LOCALITY: Indonesia, W. Java, Anjer.  
 DISTRIBUTION: E. Nepal and Tibet to Hainan (China), south through the Malay Peninsula to Java and Bali.  
 PROTECTED STATUS: CITES - Appendix II as *Ratufa* spp.  
 ISIS NUMBER: 5301410002024002001.
- Ratufa indica* (Erxleben, 1777). Syst. Regn. Anim., 1:420.  
 TYPE LOCALITY: India, near Bombay.  
 DISTRIBUTION: S. and C. India, excluding the central lowlands.  
 PROTECTED STATUS: CITES - Appendix II as *Ratufa* spp.  
 ISIS NUMBER: 5301410002024003001.
- Ratufa macroura* (Pennant, 1769). Indian Zool., 1, pl. 1.  
 TYPE LOCALITY: Sri Lanka, highlands of Central and Uva Provs.  
 DISTRIBUTION: Sri Lanka and S. India.  
 PROTECTED STATUS: CITES - Appendix II as *Ratufa* spp.  
 ISIS NUMBER: 5301410002024004001.
- Rheithrosciurus* Gray, 1867. Ann. Mag. Nat. Hist., ser. 3, 20:273.  
 ISIS NUMBER: 5301410002025000000.
- Rheithrosciurus macrotis* (Gray, 1857). Proc. Zool. Soc. Lond., 1856:341.  
 TYPE LOCALITY: Malaysia, Sarawak.  
 DISTRIBUTION: Borneo.  
 ISIS NUMBER: 5301410002025001001.
- Rhinosciurus* Blyth, 1855. J. Asiat. Soc. Bengal, 14:477.  
 ISIS NUMBER: 5301410002026000000.
- Rhinosciurus laticaudatus* (Muller and Schlegel, 1844). In Temminck, Verhandl. Nat. Gesch. Nederland Overz. Bezitt., Zool., 1:100.  
 TYPE LOCALITY: Indonesia, W. Kalimantan, Pontianak.  
 DISTRIBUTION: Malaysian subregion except Java and S.W. Philippines.  
 ISIS NUMBER: 5301410002026001001.
- Rubrisciurus* Ellerman, 1954. In Laurie and Hill, 1954, Land Mammals of New Guinea, Celebes, and Adjacent Islands, p. 94.  
 COMMENT: Sometimes considered a subgenus of *Callosciurus*; see Laurie and Hill, 1954:93; but see also Moore, 1959, Bull. Am. Mus. Nat. Hist., 118(4):176, Moore, 1961, Bull. Am. Mus. Nat. Hist., 122(1):8, and McLaughlin, 1967, in Anderson and Jones, p. 214, who considered it a distinct genus.  
 ISIS NUMBER: 5301410002027000000.
- Rubrisciurus rubriventer* (Forsten, 1839). In Temminck, Verhandl. Nat. Gesch. Nederland Overz. Bezitt., Zool., 1:86.  
 TYPE LOCALITY: Indonesia, N.E. Sulawesi, Minahassa.  
 DISTRIBUTION: N. and C. Sulawesi.  
 ISIS NUMBER: 5301410002027001001.

*Sciurillus* Thomas, 1914. Proc. Zool. Soc. Lond., 1914:416.

ISIS NUMBER: 5301410002028000000.

*Sciurillus pusillus* (Desmarest, 1817). Nouv. Dict. Hist. Nat., 10:109.

TYPE LOCALITY: French Guiana, Cayenne.

DISTRIBUTION: South America, north of the Amazon, and south of the Amazon in the Tapajoz river basin.

ISIS NUMBER: 5301410002028001001.

*Sciurotamias* Miller, 1901. Proc. Biol. Soc. Wash., 14:23.

REVIEWED BY: J. R. Callahan (JRCL).

COMMENT: Includes *Rupestes*; reviewed by Moore and Tate, 1965, Fieldiana Zool., 48:1-351. *S. davidianus* has a penile duct and Cowper's glands, and its glans and baculum are similar to those of *Ratufa*; therefore, Callahan and Davis, 1982, J. Mammal., 63:42-47, removed this taxon from the *Tamiasciurini* where it had been placed by Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:182, and tentatively referred it to the *Ratufini* (JRCL). Gromov *et al.*, 1965, placed this genus in the tribe *Tamiini* with the genus *Tamias*.

ISIS NUMBER: 5301410002029000000.

*Sciurotamias davidianus* (Milne-Edwards, 1867). Rev. Mag. Zool. Paris, ser. 2, 19:196.

TYPE LOCALITY: China, Hopei, "Mountains of Pekin."

DISTRIBUTION: Hopei to Szechwan and Hupei; Kweichow (China).

ISIS NUMBER: 5301410002029001001.

*Sciurotamias forresti* (Thomas, 1922). Ann. Mag. Nat. Hist., ser. 9, 10:399.

TYPE LOCALITY: China, Yunnan Prov., Mekong-Yangtze Divide, 27° 20' N.

DISTRIBUTION: Yunnan and Szechwan Provs. (China).

COMMENT: Subgenus *Rupestes*; see Moore and Tate, 1965, Fieldiana Zool., 48:309.

ISIS NUMBER: 5301410002029002001.

*Sciurus* Linnaeus, 1758. Syst. Nat., 10th ed., 1:63.

COMMENT: Includes *Guerlinguetus*, *Hesperosciurus*, *Otosciurus*, *Sciurus* (see Hall, 1981:417-436), *Tenes* (see Corbet, 1978:76), and, *Hadrosociurus* (see Cabrera, 1961:374) as subgenera. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, considered *Guerlinguetus* a distinct genus, which included *Hadrosociurus* and *Urosociurus* as subgenera.

ISIS NUMBER: 5301410002030000000 as *Sciurus*.

5301410002012000000 as *Guerlinguetus*.

*Sciurus aberti* Woodhouse, 1853. Proc. Acad. Nat. Sci. Phila., (1852), 6:110, 220.

TYPE LOCALITY: U.S.A., Arizona, Coconino Co., San Francisco Mtn.

DISTRIBUTION: S.E. Utah, W. Colorado, extreme S.E. Wyoming, W. and C. New Mexico, and Arizona (U.S.A.); Chihuahua, Durango, and Sonora (N.W. Mexico).

COMMENT: Subgenus *Otosciurus*; see Hall, 1981:434. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, included *Otosciurus* in subgenus *Sciurus*. Includes *kaibabensis*; see Hoffmeister and Diersing, 1978, J. Mammal., 59:402. Reviewed by Nash and Seaman, 1977, Mamm. Species, 80:1-5.

ISIS NUMBER: 5301410002030001001 as *S. aberti*.

5301410002030013001 as *S. kaibabensis*.

*Sciurus aestuans* Linnaeus, 1766. Syst. Nat., 12th ed., 1:88.

TYPE LOCALITY: Surinam.

DISTRIBUTION: Venezuela to N. Argentina.

COMMENT: Subgenus *Guerlinguetus*; see Cabrera, 1961:359. Formerly included *gilvularis*; see Avila Pires, 1964, Bol. Mus. Para. Emilio Goeldi, n. s., Zool., 42:1-23.

ISIS NUMBER: 5301410002012001001 as *Guerlinguetus aestuans*.

*Sciurus alleni* Nelson, 1898. Proc. Biol. Soc. Wash., 12:147.

TYPE LOCALITY: Mexico, Nuevo Leon, Monterrey.

DISTRIBUTION: S.E. Coahuila through C. Nuevo Leon, south through W. Tamaulipas to extreme N. San Luis Potosi (Mexico).

COMMENT: Subgenus *Sciurus*; see Hall, 1981:430.

ISIS NUMBER: 5301410002030002001.

*Sciurus anomalus* Gmelin, 1778. Syst. Nat., 13th ed., 1:148.

TYPE LOCALITY: U.S.S.R., Georgia, 25 km S.W. of Kutaisi, Sabeka.

DISTRIBUTION: Turkey; Soviet Transcaucasia; N. and W. Iran; Syria; Israel.

COMMENT: Subgenus *Tenes*; see Corbet, 1978:76.

ISIS NUMBER: 5301410002030003001.

*Sciurus arizonensis* Coues, 1867. Am. Nat., 1:357.

TYPE LOCALITY: U.S.A., Arizona, Yavapai Co., Fort Whipple.

DISTRIBUTION: C. and S.E. Arizona and W.C. New Mexico (U.S.A.); N.E. Sonora (Mexico).

COMMENT: Subgenus *Sciurus*; see Hall, 1981:432.

ISIS NUMBER: 5301410002030005001.

*Sciurus aureogaster* F. Cuvier, 1829. In E. Geoffroy and F. Cuvier, Hist. Nat. Mamm., 6, livr. 59.

TYPE LOCALITY: Mexico, Tamaulipas, Altamira.

DISTRIBUTION: S.W. and C. Guatemala to Guanajuato to Nayarit and Nuevo Leon (Mexico).

COMMENT: Subgenus *Sciurus*; see Hall, 1981:418. Includes *griseoflavus*, *nelsoni*, *poliopus*, and *socialis*; see Musser, 1968, Misc. Publ. Mus. Zool. Univ. Mich., 137:1-112.

Introduced to Elliot Key, Dade County, Florida (U.S.A.); see Brown and McGuire, 1975, J. Mammal., 56:405-419.

ISIS NUMBER: 5301410002030006001 as *S. aureogaster*.

5301410002030011001 as *S. griseoflavus*.

5301410002030015001 as *S. nelsoni*.

5301410002030018001 as *S. poliopus*.

5301410002030021001 as *S. socialis*.

*Sciurus carolinensis* Gmelin, 1788. Syst. Nat., 13th ed., 1:148.

TYPE LOCALITY: U.S.A., "Carolina."

DISTRIBUTION: E. Texas (U.S.A.) to Saskatchewan (Canada) and east to Atlantic Coast. Introduced into Britain and various localities in W. North America.

COMMENT: Subgenus *Sciurus*; see Hall, 1981:417.

ISIS NUMBER: 5301410002030007001.

*Sciurus colliaei* Richardson, 1839. In Beechey, The Zool. of Capt. Beechey's Voy., p. 8.

TYPE LOCALITY: Mexico, Nayarit, San Blas.

DISTRIBUTION: Mexico, W.C. coast including Sonora, Chihuahua, Sinaloa, Durango, Nayarit, Jalisco, and Colima.

COMMENT: Subgenus *Sciurus*; see Hall, 1981:421. Includes *sinaloensis* and *truei*; see Anderson, 1962, Am. Mus. Novit., 2093:9-12.

ISIS NUMBER: 5301410002030009001 as *S. colliaei*.

5301410002030020001 as *S. sinaloensis*.

5301410002030022001 as *S. truei*.

*Sciurus deppei* Peters, 1863. Monatsb. Preuss. Akad. Wiss. Berlin, p. 654.

TYPE LOCALITY: Mexico, Veracruz, Papantla.

DISTRIBUTION: Tamaulipas (Mexico) to Costa Rica.

COMMENT: Subgenus *Sciurus*; see Hall, 1981:426.

PROTECTED STATUS: CITES - Appendix III (Costa Rica).

ISIS NUMBER: 5301410002030010001.

- Sciurus flammifer* Thomas, 1904. Ann. Mag. Nat. Hist., ser. 7, 14:33.  
 TYPE LOCALITY: Venezuela, Bolivar, Caura Valley, La Union.  
 DISTRIBUTION: Venezuela along the Orinoco River from the Colombian border to Ciudad Bolivar; perhaps adjacent Colombia.  
 COMMENT: Subgenus *Hadrosociurus*; see Cabrera, 1961:374. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, considered *flammifer* to be in the subgenus *Hadrosociurus* of genus *Guerlinguetus*.  
 ISIS NUMBER: 5301410002012003001 as *Guerlinguetus flammifer*.
- Sciurus gilvicularis* Wagner, 1842. Arch. Naturg., 2:43.  
 TYPE LOCALITY: Brazil, Borba, Rio Madeira.  
 DISTRIBUTION: N. Brazil.  
 COMMENT: Subgenus *Guerlinguetus*; includes *paraensis*; see Avila Pires, 1964, Bol. Mus. Para. Emilio Goeldi, n. s., Zool., 42:1-23. Cabrera, 1961:359, included *gilvicularis* in *aestuans*.
- Sciurus granatensis* Humboldt, 1811. Rec. Observ. Zool., 1(1805):8.  
 TYPE LOCALITY: Colombia, Dept. Bolivar, Cartagena.  
 DISTRIBUTION: Costa Rica to Colombia, Ecuador, and N. and C. Venezuela; Margarita Isl.; Trinidad; Tobago.  
 COMMENT: Subgenus *Guerlinguetus*; see Hall, 1981:436. Includes *saltuensis*; see Cabrera, 1961:368.  
 ISIS NUMBER: 5301410002018007001 as *Microsciurus saleutenisi* (*sic*).
- Sciurus griseus* Ord, 1818. J. Phys. Chim. Hist. Nat. Arts Paris, 87:152.  
 TYPE LOCALITY: U.S.A., Oregon, Wasco Co., The Dalles, Columbia River.  
 DISTRIBUTION: C. Washington, W. Oregon, and California (U.S.A.) to Baja California Norte (Mexico).  
 COMMENT: Subgenus *Hesperosciurus*; see Hall, 1981:433. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, included *Hesperosciurus* in subgenus *Sciurus*.  
 ISIS NUMBER: 5301410002030012001.
- Sciurus ignitus* (Gray, 1867). Ann. Mag. Nat. Hist., ser. 3, 20:429.  
 TYPE LOCALITY: Bolivia, near Yungas, upper Rio Beni.  
 DISTRIBUTION: Andes of Bolivia and S.E. Peru; Ucayali Valley (E. Peru); N.E. Mato Grosso (Brazil); extreme N.W. Argentina.  
 COMMENT: Subgenus *Guerlinguetus*; includes *cuscinus*; see Cabrera, 1961:370-371.  
 ISIS NUMBER: 5301410002012004001 as *Guerlinguetus ignitus*.  
 5301410002012002001 as *Guerlinguetus cuscinus*.
- Sciurus igniventris* Wagner, 1842. Wiegmann's Arch. Naturg., 1:360.  
 TYPE LOCALITY: Brazil, Amazonas, north of the Rio Negro, Marabitanos.  
 DISTRIBUTION: N.W. Brazil; S.E. Colombia; S. Venezuela.  
 COMMENT: Subgenus *Hadrosociurus*; see Cabrera, 1961:375. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, placed *igniventris* in the subgenus *Hadrosociurus* of genus *Guerlinguetus*. Formerly included *tricolor*; see Hershkovitz, 1959, J. Mammal., 40:346; Cabrera, 1961:376, and footnote, listed *tricolor* in *igniventris* but Hershkovitz, 1959, was not incorporated. See comment under *spadiceus*.  
 ISIS NUMBER: 5301410002012005001 as *Guerlinguetus igniventris*.
- Sciurus lis* Temminck, 1844. Fauna Japonica, 1(Mamm.), p. 45.  
 TYPE LOCALITY: Japan, Honshu.  
 DISTRIBUTION: Honshu, Shikoku, and Kyushu (Japan).  
 COMMENT: Subgenus *Sciurus*; see Corbet, 1978:77.
- Sciurus nayaritensis* J. A. Allen, 1890. Bull. Am. Mus. Nat. Hist., 2:7, footnote.  
 TYPE LOCALITY: Mexico, Zacatecas, Sierra Valparaiso.  
 DISTRIBUTION: Jalisco (Mexico) north to S.E. Arizona (U.S.A.).  
 COMMENT: Subgenus *Sciurus*; see Hall, 1981:431. Includes *chiricahuae* and *apache*; see Lee and Hoffmeister, 1963, Proc. Biol. Soc. Wash., 76:188-189, and Hall, 1981:431.  
 ISIS NUMBER: 5301410002030014001 as *S. nayaritensis*.  
 5301410002030004001 as *S. apache*.  
 5301410002030008001 as *S. chiricahuae*.

- Sciurus niger* Linnaeus, 1758. Syst. Nat., 10th ed., 1:64.  
TYPE LOCALITY: U.S.A., S. South Carolina (probably).  
DISTRIBUTION: Texas (U.S.A.) and adjacent Mexico, north to Manitoba (Canada) east to the Atlantic Coast.  
COMMENT: Subgenus *Sciurus*; see Hall, 1981:427.  
PROTECTED STATUS: U.S. ESA - Endangered as *S. n. cinereus* subspecies only.  
ISIS NUMBER: 5301410002030016001.
- Sciurus oculus* Peters, 1863. Monatsb. Preuss. Akad. Wiss. Berlin, p. 653.  
TYPE LOCALITY: Mexico, Veracruz, probably near Las Vigas.  
DISTRIBUTION: San Luis Potosi, Hidalgo, Veracruz, Puebla, Mexico, Queretaro and Guanajuato (Mexico).  
COMMENT: Subgenus *Sciurus*; see Hall, 1981:430.  
ISIS NUMBER: 5301410002030017001.
- Sciurus pucheranii* (Fitzinger, 1867). Sitzb. Math. Naturw. Cl., 55, Abth., 1:487.  
TYPE LOCALITY: Colombia, near Bogota.  
DISTRIBUTION: Colombia in the W., C., and E. ranges of the Andes.  
COMMENT: Subgenus *Guerlinguetus*; see Cabrera, 1961:372. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:203, placed *pucheranii* in the genus *Microsciurus*. Includes *medellinensis*; see Cabrera, 1961:372.  
ISIS NUMBER: 5301410002018006001 as *Microsciurus pucherani* (*sic*).  
5301410002018005001 as *Microsciurus medellinensis* (*sic*).
- Sciurus pyrrhinus* Thomas, 1898. Ann. Mag. Nat. Hist., ser. 7, 2:265.  
TYPE LOCALITY: Peru, Junin Dept., Vitoc, Garita del Sol.  
DISTRIBUTION: Eastern slopes of the Andes of Peru.  
COMMENT: Subgenus *Hadroskiurus*; see Cabrera, 1961:378. Allen, 1915, Bull. Am. Mus. Nat. Hist., 34:215, placed *pyrrhinus* in the genus *Mesoskiurus*, some members of which (not including *pyrrhinus*) Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:204, placed as a subgenus in the genus *Syntheskiurus*.
- Sciurus richmondi* Nelson, 1898. Proc. Biol. Soc. Wash., 12:146.  
TYPE LOCALITY: Nicaragua, Escondido River, 50 mi. (80 km) above Bluefields.  
DISTRIBUTION: Nicaragua.  
COMMENT: Subgenus *Guerlinguetus*; see Hall, 1981:436. Reviewed by Jones and Genoways, 1975, Mamm. Species, 53:1-2.  
ISIS NUMBER: 5301410002030019001.
- Sciurus sanborni* Osgood, 1944. Field Mus. Nat. Hist. Publ. Zool. Ser., 29:191.  
TYPE LOCALITY: Peru, Madre de Dios Dept., La Pampa, between the Rio Inambari and Rio Tambopata, 33 km N. of Santo Domingo, 570 m.  
DISTRIBUTION: Madre de Dios Dept. (Peru).  
COMMENT: Subgenus *Guerlinguetus*; see Cabrera, 1961:373.
- Sciurus spadiceus* Olfers, 1818. In Eschwege, J. Bras., 15(2):208.  
TYPE LOCALITY: Brazil, Mato Grosso, Cuyaba.  
DISTRIBUTION: S.E. Colombia; Ecuador; N.E. Peru; Brazil; Bolivia.  
COMMENT: Subgenus *Hadroskiurus*; see Cabrera, 1961:374-379. Includes *langsdorffi*, *pyrrhonotus*, and *tricolor*; see Hershkovitz, 1959, J. Mammal., 40:346-347. Cabrera, 1961:376, and footnote, listed *langsdorffi* and *pyrrhonotus* as distinct species and included *tricolor* in *igniventris*, but Hershkovitz, 1959, was not incorporated. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, placed *langsdorffi* in *Guerlinguetus* (*Hadroskiurus*) *urucumus* (here included in *spadiceus*). Allen, 1915, Bull. Am. Mus. Nat. Hist., 34:269, included *pyrrhonotus* in *Uroskiurus*, which Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, placed as a subgenus in the genus *Guerlinguetus*.
- Sciurus stramineus* Eydoux and Souleyet, 1841. Voy. "La Bonite" Zool., 1:73.  
TYPE LOCALITY: Peru, Piura Dept., Omatoe (=Anotape).  
DISTRIBUTION: Extreme N.E. Peru and S.E. Ecuador in the area surrounding the Gulf of Guayaquil.  
COMMENT: Subgenus *Guerlinguetus*; see Cabrera, 1961:373. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:179, placed *stramineus* in the subgenus *Simoskiurus* of the genus *Microsciurus*.

*Sciurus variegatoides* Ogilby, 1839. Proc. Zool. Soc. Lond., 1839:117.

TYPE LOCALITY: El Salvador.

DISTRIBUTION: S. Chiapas (Mexico), through Central America to Panama.

COMMENT: Includes *goldmani*; subgenus *Sciurus*; see Hall, 1981:424. Revised by Harris, 1937, Misc. Publ. Mus. Zool. Univ. Mich., 38:7-39.

ISIS NUMBER: 5301410002030023001.

*Sciurus vulgaris* Linnaeus, 1758. Syst. Nat., 10th ed., 1:63.

TYPE LOCALITY: Sweden, Uppsala.

DISTRIBUTION: Forested regions of Palearctic, from Iberia and Great Britain east to Kamchatka Peninsula and Sakhalin Isl. (U.S.S.R.); south to Mediterranean and Black Seas, N. Mongolia and N.E. China.

COMMENT: Subgenus *Sciurus*; see Hall, 1981:417.

ISIS NUMBER: 5301410002030024001.

*Sciurus yucatanensis* J. A. Allen, 1877. In Coues and Allen, Mongr. N. Amer. Rodentia, p. 705.

TYPE LOCALITY: Mexico, Yucatan, Merida.

DISTRIBUTION: Yucatan Peninsula (Mexico); N. and S.W. Belize; N. Guatemala.

COMMENT: Subgenus *Sciurus*; see Hall, 1981:422.

ISIS NUMBER: 5301410002030025001.

*Spermophilopsis* Blasius, 1884. Tageblatt. Versamml. Deutsch. Naturf. Magdeburg, 57:325.

ISIS NUMBER: 5301410002031000000.

*Spermophilopsis leptodactylus* (Lichtenstein, 1823). Naturh. Abh. Eversmann's Reise, p. 119.

TYPE LOCALITY: U.S.S.R., Uzbekistan, 140 km N.W. of Bukhara, near Kara-Ata.

DISTRIBUTION: Turkmenistan and Uzbekistan (U.S.S.R.); N.E. Iran; N.W. Afghanistan.

COMMENT: Related to African xerine squirrels (*Atlantoxerus* and *Xerus*); see Nadler and Hoffmann, 1974, *Experientia*, 30:889-890.

ISIS NUMBER: 5301410002031001001.

*Spermophilus* F. Cuvier, 1825. Des Dentes des Mammiferes, p. 255.

REVIEWED BY: C. L. Elliott (CLE); D. J. Hafner (DJH); D. A. Sutton (DAS)(N. America, in part).

COMMENT: (= *Citellus*); see Corbet, 1978:82, and Hershkovitz, 1949, *J. Mammal.*, 30:82.

Includes *Otospermophilus*, *Xerospermophilus*, *Poliocitellus*, *Ictidomys*, and *Callospermophilus* as subgenera; see Hall, 1981:382. North American species revised by Howell, 1938, *N. Am. Fauna*, 56:1-256. Eurasian species revised by Gromov *et al.*, 1965, who also recognized *Colobotis* and *Urocitellus* as subgenera; but see Hall, 1981:382.

ISIS NUMBER: 5301410002032000000.

*Spermophilus adocetus* (Merriam, 1903). Proc. Biol. Soc. Wash., 16:79.

TYPE LOCALITY: Mexico, Michoacan, La Salada, 40 mi. (64 km) S. Uruapan.

DISTRIBUTION: E. Jalisco, Michoacan, and N. Guerrero (W.C. Mexico).

COMMENT: Subgenus *Otospermophilus*; see Hall, 1981:399. Gromov *et al.*, 1965:145,

considered *Otospermophilus* a distinct genus. Includes *infernatius*; see Alvarez and Ramirez-Pulido, 1968, *Rev. Soc. Mex. Hist. Nat.*, 29:181-190.

ISIS NUMBER: 5301410002032001001.

*Spermophilus alashanicus* Buchner, 1888. Wiss. Res. Przewalski Cent. Asien Zool. Th.

I: Saugeth., p. 11.

TYPE LOCALITY: N. China, S. Alashan Desert.

DISTRIBUTION: S.C. Mongolia; Alashan and E. Nan Shan (N. China).

COMMENT: Subgenus *Spermophilus*; see Gromov *et al.*, 1965:208. Placed by Corbet, 1978, in *dauricus*; Orlov and Davaa, 1975, pp. 8-9, in [Systematics and cytogenetics of mammals], Orlov, ed., "Nauka," Moscow, provided evidence of specific distinctness.

- Spermophilus annulatus* Audubon and Bachman, 1842. J. Acad. Nat. Sci. Phila., 8:319.  
TYPE LOCALITY: Mexico, Colima, Manzanillo.  
DISTRIBUTION: Nayarit to N. Guerrero (Mexico).  
COMMENT: Subgenus *Otospermophilus*; see Hall, 1981:403. Gromov *et al.*, 1965:145, considered *Otospermophilus* a distinct genus. Type locality designated by Howell, 1938, N. Am. Fauna, 56:163.  
ISIS NUMBER: 5301410002032002001.
- Spermophilus armatus* Kennicott, 1863. Proc. Acad. Nat. Sci. Phila., 15:158.  
TYPE LOCALITY: U.S.A., Wyoming, Uinta Co., foothills of Uinta Mtns., near Fort Bridger.  
DISTRIBUTION: S.C. Utah to S. Montana, S.E. Idaho to W. Wyoming (U.S.A.).  
COMMENT: Subgenus *Spermophilus*; see Hall, 1981:386.  
ISIS NUMBER: 5301410002032003001.
- Spermophilus atricapillus* W. E. Bryant, 1889. Proc. Calif. Acad. Sci., ser. 2, 2:26.  
TYPE LOCALITY: Mexico, Baja California Sur, Comondu.  
DISTRIBUTION: Baja California (Mexico).  
COMMENT: Subgenus *Otospermophilus*; see Hall, 1981:402. Gromov *et al.*, 1965:145, considered *Otospermophilus* a distinct genus.  
ISIS NUMBER: 5301410002032004001.
- Spermophilus beecheyi* (Richardson, 1829). Fauna Boreali-Americana, 1:170.  
TYPE LOCALITY: U.S.A., California, Monterey Co., Monterey.  
DISTRIBUTION: W. Washington (U.S.A.) to Baja California Norte (Mexico).  
COMMENT: Subgenus *Otospermophilus*; see Hall, 1981:401. Gromov *et al.*, 1965:145, considered *Otospermophilus* a distinct genus. Type locality restricted by Grinnell, 1933, Univ. Calif. Publ. Zool., 40:120.  
ISIS NUMBER: 5301410002032005001.
- Spermophilus beldingi* Merriam, 1888. Ann. N.Y. Acad. Sci., 4:317.  
TYPE LOCALITY: U.S.A., California, Placer Co., Donner.  
DISTRIBUTION: E. Oregon, S.W. Idaho, N.E. California, N. Nevada, and N.W. Utah (U.S.A.).  
COMMENT: Subgenus *Spermophilus*; see Hall, 1981:387.  
ISIS NUMBER: 5301410002032006001.
- Spermophilus brunneus* (A. H. Howell, 1928). Proc. Biol. Soc. Wash., 41:211.  
TYPE LOCALITY: U.S.A., Idaho, Adams Co., New Meadows.  
DISTRIBUTION: W.C. Idaho (U.S.A.).  
COMMENT: Subgenus *Spermophilus*; see Hall, 1981:385.  
ISIS NUMBER: 5301410002032007001.
- Spermophilus citellus* (Linnaeus, 1766). Syst. Nat., 12th ed., 1:80.  
TYPE LOCALITY: Austria.  
DISTRIBUTION: S.E. Germany and S.W. Poland to European Turkey, Rumania, and Ukraine (U.S.S.R.).  
COMMENT: Subgenus *Spermophilus*; see Gromov *et al.*, 1965:232. Formerly included *dauricus* and *xanthopymnus* as in Ellerman and Morrison-Scott, 1951:506; but see Orlov and Davaa, 1975, pp. 8-9, in [Systematics and cytogenetics of mammals], Orlov, ed., "Nauka," Moscow, Gromov *et al.*, 1965:208, 237, and Vorontsov and Lyapunova, 1970, Byull. Mosk. Ova. Ispyt. Prir., Otd. Biol., 75:122-136.  
ISIS NUMBER: 5301410002032008001.
- Spermophilus columbianus* (Ord, 1815). In Guthrie, A New Geogr., Hist., Coml. Grammar, Philadelphia, 2nd ed., 2:292.  
TYPE LOCALITY: U.S.A., Idaho, Idaho Co., between the forks of the Clearwater and Kooskooskie Rivers.  
DISTRIBUTION: S.E. British Columbia and W. Alberta (Canada) to N.E. Oregon, C. Idaho, and C. Montana (U.S.A.).  
COMMENT: Subgenus *Urocitellus*; see Gromov *et al.*, 1965:196. Hall, 1981:381, included *Urocitellus* in subgenus *Spermophilus*.  
ISIS NUMBER: 5301410002032009001.

- Spermophilus dauricus* Brandt, 1843. Bull. Phys. Math. Acad. Sci. St. Petersburg., 2:379.  
 TYPE LOCALITY: U.S.S.R., R.S.F.S.R., Chitinsk. Obl., Torei-Nor (Lake).  
 DISTRIBUTION: Transbaikalia (U.S.S.R.); Mongolia; N. China.  
 COMMENT: Subgenus *Spermophilus*; see Gromov *et al.*, 1965:244. Corbet, 1978:83, tentatively included *alashanicus* in this species, but see Orlov and Davaa, 1975, pp. 8-9, in [Systematics and cytogenetics of mammals], Orlov, ed., "Nauka," Moscow, who provided evidence of specific distinctness. See comment under *alashanicus*. Ellerman and Morrison-Scott, 1951:506, included *dauricus* in *citellus*; but see Gromov *et al.*, 1965:244, who considered *dauricus* a distinct species.
- Spermophilus elegans* Kennicott, 1863. Acad. Nat. Sci. Philad., p. 158.  
 TYPE LOCALITY: U.S.A., Wyoming, Uinta Co., Fort Bridger.  
 DISTRIBUTION: N.E. Nevada, S.E. Oregon, S. Idaho, and S.W. Montana to C. Colorado and W. Nebraska (U.S.A.).  
 COMMENT: Subgenus *Spermophilus*; see Hall, 1981:385. Regarded by Howell, 1938, N. Am. Fauna, 56:1-256, and Hall, 1981:385, as a subspecies of *richardsonii*; but Nadler *et al.*, 1971, Syst. Zool., 20:298-305, Robinson and Hoffmann, 1975, Syst. Zool., 28:79-88, and Koeppl *et al.*, 1978, J. Mammal., 59:677-696, provided evidence of specific distinctness and included *aureus* and *nevadensis* in *elegans*.
- Spermophilus erythrogegens* Brandt, 1841. Bull. Acad. Sci. St. Petersburg., p. 43.  
 TYPE LOCALITY: U.S.S.R., Tomsk. Obl., foothills of Altai Mtns., near Barnaul.  
 DISTRIBUTION: E. Kazakhstan and S.W. Siberia (U.S.S.R.); Sinkiang (China). Isolated population (*pallidicauda*) in Mongolia and Inner Mongolia (China).  
 COMMENT: Includes *brevicauda* (= *intermedius*), *carruthersi*, and *pallidicauda*; subgenus *Colobotis*; see Gromov *et al.*, 1965:315. Hall, 1981:381, included *Colobotis* in subgenus *Spermophilus*. Ellerman and Morrison-Scott, 1951:508, 511, regarded *brevicauda* and *carruthersi* as synonyms of *pygmaeus*, and *pallidicauda* as a full species. Sludskii *et al.*, 1969, [Mammals of Kazakhstan], vol. 1, "Nauka", Alma-Ata, p. 177, considered *intermedius* (= *brevicauda*) a full species. Provisionally included in *major* by Corbet, 1978:84; but see Gromov *et al.*, 1965:315, Vorontsov and Lyapunova, 1970, Byull. Mosk. Ova. Ispyt. Prir. Otd. Biol., 75:122-136, and 1976, pp. 337-353, in *Beringia in Cenozoic*, V. Kontrimavichus, ed., Acad. Sci., Vladivostok, for evidence of specific distinctness.  
 ISIS NUMBER: 5301410002032017001 as *S. pallidicauda*.
- Spermophilus franklinii* (Sabine, 1822). Trans. Linn. Soc. Lond., 13:587.  
 TYPE LOCALITY: Canada, Saskatchewan, Carlton House.  
 DISTRIBUTION: N. Great Plains; Alberta, Saskatchewan, and Manitoba (Canada), south to Kansas, Illinois, and Indiana (U.S.A.).  
 COMMENT: Subgenus *Poliocitellus*; see Hall, 1981:397. Gromov *et al.*, 1965:155, considered *Poliocitellus* a subgenus of the genus *Ictidomys*.  
 ISIS NUMBER: 5301410002032010001.
- Spermophilus fulvus* (Lichtenstein, 1823). Naturh. Abh. Eversmann's Reise, p. 119.  
 TYPE LOCALITY: U.S.S.R., Kazakh. S.S.R., E. of Mugodzhary Mtns., near Kuvandzhur River.  
 DISTRIBUTION: Kazakhstan (U.S.S.R.), from the Caspian Sea and the Volga River to Lake Balkash south to N.E. Iran, and N. Afghanistan; Sinkiang (China).  
 COMMENT: Subgenus *Colobotis*; see Gromov *et al.*, 1965:276. Hall, 1981:381, included *Colobotis* in subgenus *Spermophilus*.  
 ISIS NUMBER: 5301410002032011001.
- Spermophilus lateralis* (Say, 1823). In Long, Account of an Exped. from Pittsburgh to the Rocky Mtns., 2:46.  
 TYPE LOCALITY: U.S.A., Colorado, Fremont Co., Arkansas River, about 26 mi. (42 km) below Canyon City.  
 DISTRIBUTION: Montane W. North America, from C. British Columbia to S. New Mexico in the Rocky Mtns., and the Columbia River south to S. California and Nevada.  
 COMMENT: Subgenus *Callospermophilus*; see Hall, 1981:406. Gromov *et al.*, 1965:150, considered *Callospermophilus* a subgenus of the genus *Otospermophilus*.  
 ISIS NUMBER: 5301410002032012001.



*Spermophilus madrensis* (Merriam, 1901). Proc. Wash. Acad. Sci., 3:563.

TYPE LOCALITY: Mexico, Chihuahua, Sierra Madre, near Guadalupe y Calvo, 7000 ft. (2134 m).

DISTRIBUTION: S.W. Chihuahua (Mexico).

COMMENT: Subgenus *Callospermophilus*; see Hall, 1981:410. Gromov *et al.*, 1965:150, considered *Callospermophilus* a subgenus of the genus *Otospermophilus*.

ISIS NUMBER: 5301410002032013001.

*Spermophilus major* (Pallas, 1778). Nova Spec. Quad. Glir. Ord., p. 125.

TYPE LOCALITY: U.S.S.R., R.S.F.S.R., Kuibyshevsk. Obl., near Kuibyshev (=Samara).

DISTRIBUTION: Steppe between Volga and Irtysh Rivers (U.S.S.R.).

COMMENT: Subgenus *Colobotis*; see Gromov *et al.*, 1965:290. Hall, 1981:381, included *Colobotis* in subgenus *Spermophilus*. Occasionally hybridizes with *erythrogegens* and *fulvus*; see Denisov, 1963, Zool. Zh., 42:1887-1899, and Ognev, 1947, [Mamm. U.S.S.R., Adjac. Count.], Acad. Sci. Moscow, p. 24. Corbet, 1978:84, provisionally included *erythrogegens* and *brevicauda* in this species, but Gromov *et al.*, 1965:290, Vorontsov and Lyapunova, 1970, Byull. Mosk. Ova. Ispyt. Prir. Otd. Biol., 75:122-136, and 1976, pp. 337-353, in Beringia in Cenozoic, V. Kontrimavichus, ed., Acad. Sci., Vladivostok, considered *erythrogegens* a distinct species, and Gromov *et al.*, 1965:315, included *brevicauda* in *erythrogegens*; see comment under *erythrogegens*.

ISIS NUMBER: 5301410002032014001.

*Spermophilus mexicanus* (Erxleben, 1777). Syst. Regn. Anim., 1:428.

TYPE LOCALITY: Mexico, Toluca.

DISTRIBUTION: S. New Mexico and W. Texas (U.S.A.) to Jalisco and S. Puebla (C. Mexico).

COMMENT: Subgenus *Ictidomys*; see Hall, 1981:394. Gromov *et al.*, 1965:153, considered *Ictidomys* a distinct genus. Known to hybridize at several localities with *tridecemlineatus*; see Cothran *et al.*, 1977, J. Mammal., 58:610-622.

ISIS NUMBER: 5301410002032015001.

*Spermophilus mohavensis* Merriam, 1889. N. Am. Fauna, 2:15.

TYPE LOCALITY: U.S.A., California, San Bernardino Co., near Rabbit Springs, about 15 mi. (24 km) E. Hesperia.

DISTRIBUTION: N.W. Mohave Desert and Owens Valley (S. California, U.S.A.).

COMMENT: Subgenus *Xerospermophilus*; see Hall, 1981:405. Gromov *et al.*, 1965:151, considered *Xerospermophilus* a distinct genus. Type locality designated by Grinnell and Dixon, 1918, Mon. Bull. Calif. Comm. Hort., 7:667.

ISIS NUMBER: 5301410002032016001.

*Spermophilus musicus* Menetries, 1832. Cat. Raisonne Mus. Peale Phila., p. 21.

TYPE LOCALITY: U.S.S.R., Gruzinsk. S.S.R., Uchkulan ("Caucasus").

DISTRIBUTION: N. Caucasus Mtns. (U.S.S.R.).

COMMENT: Subgenus *Spermophilus*; see Gromov *et al.*, 1965:249. Regarded by Ellerman and Morrison-Scott, 1951:508, and Corbet, 1978:83, as a subspecies of *pygmaeus*. Gromov *et al.*, 1965:249, and Vorontsov and Lyapunova, 1970, Byull. Mosk. Ova. Ispyt. Prir. Otd. Biol., 75:122-136, and 1976, pp. 337-353, in Beringia in Cenozoic, V. Kontrimavichus, ed., Acad. Sci., Vladivostok, provided evidence of specific distinctness.

*Spermophilus parryii* (Richardson, 1825). In Parry, 1825 (1827), appendix to Parry's J. of Second Voy., p. 316.

TYPE LOCALITY: Canada, Hudson Bay, Melville Peninsula, Lyon Inlet, Five Hawser Bay.

DISTRIBUTION: N.W. Canada; Alaska (U.S.A.); N.E. Yakutia, Anadyrsk. Krai, and Chukotka (U.S.S.R.).

COMMENT: Subgenus *Urocitellus*; see Gromov *et al.*, 1965:184. Hall, 1981:381, included *Urocitellus* in subgenus *Spermophilus*. Regarded by Ellerman and Morrison-Scott, 1951:511, and Hall and Kelson, 1959:343, as a synonym of *undulatus*. Gromov *et al.*, 1965:184, and Nadler *et al.*, 1974, Comp. Biochem. Physiol., 47A:663-681, provided evidence of specific distinctness. Reviewed by Chernyavskii, 1972, Trud. Mosk. Soc. Nat., 48:199-214, Serdyuk, 1979, Zool. Zh., 58:1692-1702,

- (Palearctic), and Pearson, 1981, Geographic and intraspecific cranial variation in North American arctic ground squirrels, M.A. Thesis, Univ. Kansas, Lawrence, 96 pp. (Nearctic).  
 ISIS NUMBER: 5301410002032018001.
- Spermophilus perotensis* Merriam, 1893. Proc. Biol. Soc. Wash., 8:131.  
 TYPE LOCALITY: Mexico, Veracruz, Perote.  
 DISTRIBUTION: Veracruz and Puebla (E.C. Mexico).  
 COMMENT: Subgenus *Ictidomys*; see Hall, 1981:397. Gromov *et al.*, 1965:153, considered *Ictidomys* a distinct genus.  
 ISIS NUMBER: 5301410002032019001.
- Spermophilus pygmaeus* (Pallas, 1778). Nova Spec. Quad. Glir. Ord., p. 122.  
 TYPE LOCALITY: U.S.S.R., Kazakh. S.S.R., between Ural and Emba Rivers.  
 DISTRIBUTION: Kazakhstan and S. Ural Mtns. to Crimea (U.S.S.R.).  
 COMMENT: Subgenus *Spermophilus*; see Gromov *et al.*, 1965:257. See comment under *musicus*. Hybridizes rarely with *erythrogegens*, *fulvus*, and *major*; see Bazhanov, 1944, Dokl. Akad. Nauk S.S.S.R., 42(7):321-322, Bazhanov, 1945, Vestn. Kazakh. Fil. Akad. Nauk S.S.S.R., 5(8):37-39, and Denisov, 1964, Nauchin. Dokl. Vyssh. Shk. Biol. Nauki, 2:49-54. Also hybridizes with *suslicus*; see Denisov and Smirnova, 1976, Acta Theriol., 21:267-278.  
 ISIS NUMBER: 5301410002032020001.
- Spermophilus relictus* (Kashkarov, 1923). Trans. Turk. Sci. Soc., 1:185.  
 TYPE LOCALITY: U.S.S.R., Kirgiz. S.S.R., Talassk. Obl., Talassk. Alatau, Kara-Bura, and Kumysh-Tagh Valleys.  
 DISTRIBUTION: Tien Shan Mtns. in Kirgizia and S.E. Kazakhstan (U.S.S.R.).  
 COMMENT: Subgenus *Spermophilus*; see Gromov *et al.*, 1965:198.
- Spermophilus richardsonii* (Sabine, 1822). Trans. Linn. Soc. Lond., 13:589.  
 TYPE LOCALITY: Canada, Saskatchewan, Carleton House.  
 DISTRIBUTION: N. Great Plains in S. Alberta, S. Saskatchewan, S. Manitoba (Canada), Montana, North Dakota, N.E. South Dakota, W. Minnesota, and N.W. Iowa (U.S.A.).  
 COMMENT: Subgenus *Spermophilus*; see Hall, 1981:385. Formerly included *elegans*; see comment under that species.  
 ISIS NUMBER: 5301410002032021001.
- Spermophilus saturatus* (Rhoads, 1895). Proc. Acad. Nat. Sci. Phila., 47:43.  
 TYPE LOCALITY: U.S.A., Washington, Kittitas Co., Lake Kichelos (=Keechelus), 8000 ft. (2438 m).  
 DISTRIBUTION: Cascade Mtns. of W. Washington (U.S.A.) and S.W. British Columbia (Canada).  
 COMMENT: Subgenus *Callospermophilus*; see Hall, 1981:409. Gromov *et al.*, 1965:150, considered *Callospermophilus* a subgenus of the genus *Otospermophilus*.  
 ISIS NUMBER: 5301410002032022001.
- Spermophilus spilosoma* Bennett, 1833. Proc. Zool. Soc. Lond., 1833:40.  
 TYPE LOCALITY: Mexico, Durango, Durango (City).  
 DISTRIBUTION: C. Mexico to S. Texas, S.W. South Dakota, and N.W. Arizona (U.S.A.).  
 COMMENT: Subgenus *Ictidomys*; see Hall, 1981:395. Gromov *et al.*, 1965:153, considered *Ictidomys* a distinct genus. Reviewed by Streubel and Fitzgerald, 1978, Mamm. Species, 101:1-4. Howell, 1938, N. Am. Fauna, 56:122, fixed the type locality.  
 ISIS NUMBER: 5301410002032023001.
- Spermophilus suslicus* (Guldenstaedt, 1770). Nova Comm. Acad. Sci. Petrop., 14:389.  
 TYPE LOCALITY: U.S.S.R., Voronezhsk. Obl., near Voronezh (City).  
 DISTRIBUTION: Steppes of C. and S. Europe, including Poland, E. Rumania, Ukraine north to Oka River and east to the Volga River (U.S.S.R.).  
 COMMENT: Subgenus *Spermophilus*; see Gromov *et al.*, 1965:212. See also comment under *pygmaeus*.  
 ISIS NUMBER: 5301410002032024001.

- Spermophilus tereticaudus* Baird, 1858. *Mammals in Repts. Expl. Surv....*, 8(1):315.  
 TYPE LOCALITY: U.S.A., California, Imperial Co., Old Fort Yuma.  
 DISTRIBUTION: Deserts of S.E. California, S. Nevada, W. Arizona (U.S.A.), N.E. Baja California and Sonora (Mexico).  
 COMMENT: Subgenus *Xerospermophilus*; see Hall, 1981:405. Gromov *et al.*, 1965:151, considered *Xerospermophilus* a distinct genus.  
 ISIS NUMBER: 5301410002032025001.
- Spermophilus townsendii* Bachman, 1839. *J. Acad. Nat. Sci. Phila.*, 8:61.  
 TYPE LOCALITY: U.S.A., Washington, Walla Walla Co., near Wallula.  
 DISTRIBUTION: Great Basin region of E. Washington, Oregon, S. Idaho, E. California, Nevada, and W. Utah (U.S.A.).  
 COMMENT: Subgenus *Spermophilus*; see Hall, 1981:382. Includes several chromosomally different groups (*mollis*, *vigilis*) that may be distinct species; see Vorontsov and Lyapunova, 1970, *Byull. Mosk. Ova. Ispyt. Prir. Otd. Biol.*, 75:122-136.  
 ISIS NUMBER: 5301410002032026001.
- Spermophilus tridecemlineatus* (Mitchill, 1821). *Med. Repos. (N.Y.)*, (n.s.), 6(21):248.  
 TYPE LOCALITY: U.S.A., C. Minnesota.  
 DISTRIBUTION: Great Plains, from C. Texas to E. Utah, Ohio (U.S.A.) and S.C. Canada.  
 COMMENT: Subgenus *Ictidomys*; see Hall, 1981:391. Gromov *et al.*, 1965:153, considered *Ictidomys* a distinct genus. Reviewed by Streubel and Fitzgerald, 1978, *Mamm. Species*, 103:1-5. See also comment under *mexicanus*.  
 ISIS NUMBER: 5301410002032027001.
- Spermophilus undulatus* (Pallas, 1778). *Nova Spec. Quad. Glir. Ord.*, p. 122.  
 TYPE LOCALITY: U.S.S.R., Buryat A.S.S.R., Selenga River.  
 DISTRIBUTION: E. Kazakhstan, S. Siberia, Transbaikalia (U.S.S.R.), N. Mongolia, Heilungkiang and Sinkiang (China).  
 COMMENT: Subgenus *Urocitellus*; see Gromov *et al.*, 1965:162. Hall, 1981:381, included *Urocitellus* in subgenus *Spermophilus*. Formerly included *parryii*; see Hall and Kelson, 1959:343; but also see Nadler *et al.*, 1974, *Comp. Biochem. Physiol.*, 47A:663-681.  
 ISIS NUMBER: 5301410002032028001.
- Spermophilus variegatus* (Erxleben, 1777). *Syst. Regn. Anim.*, 1:421.  
 TYPE LOCALITY: Mexico, Distrito Federal, Valley of Mexico, near Mexico City.  
 DISTRIBUTION: S. Nevada to S.W. Texas and Utah (U.S.A.) to Puebla (C. Mexico).  
 COMMENT: Subgenus *Otospermophilus*; see Hall, 1981:399. Gromov *et al.*, 1965:145, considered *Otospermophilus* a distinct genus. Nelson, 1898, *Science*, n.s., 8:897, fixed the type locality.  
 ISIS NUMBER: 5301410002032029001.
- Spermophilus washingtoni* (A. H. Howell, 1938). *N. Am. Fauna*, 56:69.  
 TYPE LOCALITY: U.S.A., Washington, Walla Walla Co., Touchet.  
 DISTRIBUTION: S.E. Washington, N.E. Oregon (U.S.A.).  
 COMMENT: Subgenus *Spermophilus*; see Hall, 1981:384.  
 ISIS NUMBER: 5301410002032030001.
- Spermophilus xanthoprimum* (Bennett, 1835). *Proc. Zool. Soc. Lond.*, 1835:90.  
 TYPE LOCALITY: N.E. Turkey, Armenia, Erzerum (=Erzurum).  
 DISTRIBUTION: Soviet Transcaucasia, Turkey, Syria, and Palestine.  
 COMMENT: Subgenus *Spermophilus*; see Gromov *et al.*, 1965:237. Regarded by Ellerman and Morrison-Scott, 1951:506, and Corbet, 1978:83, as a synonym of *citellus*; but see Gromov *et al.*, 1965:237, and Vorontsov and Lyapunova, 1970, *Byull. Mosk. Ova. Ispyt. Prir. Otd. Biol.*, 75:122-136, who provided evidence of specific distinctness.
- Sundasciurus* Moore, 1958. *Am. Mus. Novit.*, 1914:2.  
 COMMENT: Reviewed, in part, by Heaney, 1979, *Proc. Biol. Soc. Wash.*, 92:280-286.  
 ISIS NUMBER: 5301410002033000000.

- Sundasciurus brookei* (Thomas, 1892). Ann. Mag. Nat. Hist., ser. 6, 9:253.  
 TYPE LOCALITY: Malaysia, Sarawak, Mt. Dulit.  
 DISTRIBUTION: Mountains of Borneo.  
 ISIS NUMBER: 5301410002033001001.
- Sundasciurus davensis* (Sanborn, 1952). Fieldiana Zool., 33:117.  
 TYPE LOCALITY: Philippines, Mindanao, Davao Prov., Taguon Muncip, Madaam.  
 DISTRIBUTION: Known only from the type locality.  
 COMMENT: May be conspecific with *mindanensis*, *philippinensis*, and *samarensis* (LRH).
- Sundasciurus hippurus* (I. Geoffroy, 1831). In Zool. Voy. de Belanger Indes Orient., 2:149.  
 TYPE LOCALITY: Malaysia, Malacca.  
 DISTRIBUTION: Malaysian subregion except Java and S.W. Philippines.  
 ISIS NUMBER: 5301410002033002001.
- Sundasciurus hoogstraali* (Sanborn, 1952). Fieldiana Zool., 33:115.  
 TYPE LOCALITY: Philippines, Calamian Isls., Busuanga Isl., Dimaniang.  
 DISTRIBUTION: Busuanga Isl. (Philippines).  
 COMMENT: Member of the *steerii* group; see comment under *steerii* (LRH).
- Sundasciurus jentinki* (Thomas, 1887). Ann. Mag. Nat. Hist., ser. 5, 20:128.  
 TYPE LOCALITY: Malaysia, Sabah, Mt. Kinabalu.  
 DISTRIBUTION: Mountains of N. Borneo.
- Sundasciurus juvencus* (Thomas, 1908). Ann. Mag. Nat. Hist., ser. 8, 2:498.  
 TYPE LOCALITY: Philippines, Palawan Isl.  
 DISTRIBUTION: N. Palawan Isl. (Philippines).  
 COMMENT: Member of the *steerii* group; see comment under *steerii* (LRH).
- Sundasciurus lowii* (Thomas, 1892). Ann. Mag. Nat. Hist., ser. 6, 2:253.  
 TYPE LOCALITY: Malaysia, Sarawak, Lumbidon.  
 DISTRIBUTION: Malaysian subregion, except Java and S.W. Philippines.  
 COMMENT: Includes *fraterculus*, from the Mentawi Isls.; see Chasen, 1940, Bull. Raffles Mus., 15:144.  
 ISIS NUMBER: 5301410002033003001.
- Sundasciurus mindanensis* (Steere, 1890). List of the Birds and Mammals collected by the Steere Expedition to the Philippines, p. 29.  
 TYPE LOCALITY: Philippines, Mindanao.  
 DISTRIBUTION: Mindanao and adjacent small islands (Philippines).  
 COMMENT: May be conspecific with *davensis*, *philippinensis*, and *samarensis* (LRH).  
 ISIS NUMBER: 5301410002033004001.
- Sundasciurus mollendorffi* Matschie, 1898. Sitzb. Ges. Naturf. Fr. Berlin, 5:41.  
 TYPE LOCALITY: Philippines, Calamian Isls., Culion Isl.  
 DISTRIBUTION: Known only from the type locality.  
 COMMENT: Includes *albicauda*; see Matschie, 1898; *albicauda* was listed as a distinct species by Corbet and Hill, 1980, without comment. Member of the *steerii* group (LRH).  
 ISIS NUMBER: 5301410002033005001.
- Sundasciurus philippinensis* (Waterhouse, 1839). Proc. Zool. Soc. Lond., 1839:117.  
 TYPE LOCALITY: Philippines, Mindanao Isl.  
 DISTRIBUTION: S. and W. Mindanao, and Basilan (Philippines).  
 COMMENT: May be conspecific with *davensis*, *mindanensis*, and *samarensis* (LRH).  
 ISIS NUMBER: 5301410002033006001.
- Sundasciurus rabori* Heaney, 1979. Proc. Biol. Soc. Wash., 92:280-286.  
 TYPE LOCALITY: Philippines, Palawan Isl., Mt. Mantalingajan, Magtaguimbong.  
 DISTRIBUTION: Known only from type locality, but probably widespread in mountains on Palawan (Philippines).
- Sundasciurus samarensis* (Steere, 1890). List of the Birds and Mammals Collected by the Steere Expedition to the Philippines, p. 30.  
 TYPE LOCALITY: Philippines, Samar.  
 DISTRIBUTION: Samar and Leyte Isls. (Philippines).  
 COMMENT: May be conspecific with *davensis*, *mindanensis*, and *philippinensis* (LRH).

*Sundasciurus steerii* (Gunther, 1877). Proc. Zool. Soc. Lond., 1876:735.

TYPE LOCALITY: Philippines, Balabac Isl.

DISTRIBUTION: Balabac and S. Palawan Isl. in lowlands (Philippines).

COMMENT: Member of the *steerii* group, which contains 1-3 species; see Heaney, 1979, Proc. Biol. Soc. Wash., 92:280-286.

ISIS NUMBER: 5301410002033007001.

*Sundasciurus tenuis* (Horsfield, 1824). Zool. Res. Java, 1824:153.

TYPE LOCALITY: Singapore.

DISTRIBUTION: Malaysian subregion, except Java and S.W. Philippines.

ISIS NUMBER: 5301410002033008001.

*Syntheosciurus* Bangs, 1902. Bull. Mus. Comp. Zool. Harv. Univ., 39:25.

REVIEWED BY: D. A. Sutton (DAS).

COMMENT: Goodwin, 1946, Bull. Am. Mus. Nat. Hist., 87:275-473, suggested that *Syntheosciurus* might be a subgenus of *Sciurus*; but see Heaney and Hoffmann, 1978, J. Mammal., 59:854-855, Enders, 1980, J. Mammal., 61:725-727, and Hall, 1981:438.

ISIS NUMBER: 5301410002034000000.

*Syntheosciurus brochus* Bangs, 1902. Bull. Mus. Comp. Zool. Harv. Univ., 39:25.

TYPE LOCALITY: Panama, Chiriqui, 8 mi. (13 km) N. of Boquete, 7000 ft. (2134 m).

DISTRIBUTION: Costa Rica to N. Panama.

COMMENT: Reviewed by Enders, 1953, J. Mammal., 34:509. Includes *poasensis*; see Heaney and Hoffmann, 1978, J. Mammal., 59:854-855, Enders, 1980, J. Mammal., 61:726, and Hall, 1981:438.

ISIS NUMBER: 5301410002034001001.

*Tamias* Illiger, 1811. Prodr. Syst. Mamm. et Avium., p. 83.

REVIEWED BY: F. J. Brenner (FJB); H. E. Broadbooks (HEB); J. R. Callahan (JRCL); D. P. Snyder (DPS); D. A. Sutton (DAS).

COMMENT: N. American forms revised by Howell, 1929, N. Am. Fauna, 52:11-23.

Includes *Eutamias* (*T. sibiricus*), *Tamias* (*T. striatus*), and *Neotamias* as subgenera; see Ellerman, 1940:428, Corbet, 1978:85, and Nadler *et al.*, 1977, Am. Midl. Nat., 98:343-353. Disagreement exists regarding the status of *Eutamias* and *Neotamias*; see Ellis and Maxson, 1979, J. Mammal., 60:331-334, White, 1953, Univ. Kans. Publ. Mus. Nat. Hist., 5(32):543-561, and Hall, 1981:337. DPS considered this arrangement tentative until additional biochemical and cytological data can be evaluated.

ISIS NUMBER: 5301410002035000000 as *Tamias*.

5301410002007000000 as *Eutamias*.

*Tamias alpinus* Merriam, 1893. Proc. Biol. Soc. Wash., 8:137.

TYPE LOCALITY: U.S.A., California, Tulare Co., Big Cottonwood Meadows, just south of Mt. Whitney, 3050 m.

DISTRIBUTION: Alpine zone in Sierra Nevada, from Tuolumne to Tulare Counties (E.C. California, U.S.A.).

ISIS NUMBER: 5301410002007001001 as *Eutamias alpinus*.

*Tamias amoenus* J. A. Allen, 1890. Bull. Am. Mus. Nat. Hist., 3:90.

TYPE LOCALITY: U.S.A., Oregon, Klamath Co., Fort Klamath.

DISTRIBUTION: C. British Columbia (Canada) south to C. California east to C. Montana and W. Wyoming (U.S.A.).

ISIS NUMBER: 5301410002007002001 as *Eutamias amoenus*.

*Tamias bulleri* J. A. Allen, 1889. Bull. Am. Mus. Nat. Hist., 2:173.

TYPE LOCALITY: Mexico, Zacatecas, Sierra de Valparaiso.

DISTRIBUTION: Sierra Madre, in S. Durango, W. Zacatecas, and N. Jalisco (Mexico).

COMMENT: Monotypic; formerly included *durangae* and *solivagus*, which were considered *incertae sedis* by Callahan, 1980, Southwest. Nat., 25:1-8; see *durangae*.

ISIS NUMBER: 5301410002007003001 as *Eutamias bulleri*.

- Tamias canipes* (V. Bailey, 1902). Proc. Biol. Soc. Wash., 15:117.  
 TYPE LOCALITY: U.S.A., Texas, Culberson Co., Guadalupe Mtns., head of Dog Canyon, 2130 m.  
 DISTRIBUTION: Mountains of S.E. New Mexico and W. Texas (U.S.A.).  
 COMMENT: Elevated from subspecies of *cinereicollis* by Fleharty, 1960, J. Mammal., 41:235-242. Reviewed by Findley *et al.*, 1975, Mammals of New Mexico, Univ. of New Mexico Press, Albuquerque, p. 103-112.  
 ISIS NUMBER: 5301410002007004001 as *Eutamias canipes*.
- Tamias cinereicollis* J. A. Allen, 1890. Bull. Am. Mus. Nat. Hist., 3:94.  
 TYPE LOCALITY: U.S.A., Arizona, Coconino Co., San Francisco Mtns.  
 DISTRIBUTION: Mountains of C. and E. Arizona and C. and S.W. New Mexico (U.S.A.).  
 ISIS NUMBER: 5301410002007005001 as *Eutamias cinereicollis*.
- Tamias dorsalis* Baird, 1855. Proc. Acad. Nat. Sci. Phila., 7:332.  
 TYPE LOCALITY: U.S.A., New Mexico, Grant Co., Fort Webster, copper mines of the Mimbres (=near Santa Rita).  
 DISTRIBUTION: E. Nevada, S. Idaho, Utah, S.W. Wyoming, and N.W. Colorado south through Arizona and W. New Mexico (U.S.A.) to N.W. Durango, W. Coahuila, and coastal Sonora (Mexico).  
 COMMENT: Reviewed by Callahan and Davis, 1977, Southwest. Nat., 22:71, who included *sonoriensis* in this species.  
 ISIS NUMBER: 5301410002007006001 as *Eutamias dorsalis*.
- Tamias durangae* (J. A. Allen, 1903). Bull. Am. Mus. Nat. Hist., 19:594.  
 TYPE LOCALITY: Mexico, Durango, Sierra de Candella, Arroyo de Bucy, 7000 ft. (2134 m).  
 DISTRIBUTION: S.W. Chihuahua to W.C. Durango; S.E. Coahuila (Mexico).  
 COMMENT: Formerly included in *bulleri*; includes *solivagus*; probably conspecific with *canipes*; see Callahan, 1980, Southwest. Nat., 25:1-8, who considered both *durangae* and *solivagus*, *incertae sedis*.
- Tamias merriami* J. A. Allen, 1889. Bull. Am. Mus. Nat. Hist., 2:176.  
 TYPE LOCALITY: U.S.A., California, San Bernardino Co., San Bernardino Mtns., N. of San Bernardino, 4500 ft. (1372 m).  
 DISTRIBUTION: From San Francisco Bay south in the Coast Range, and south of Columbia (California, U.S.A.) in the Sierra Nevada, to extreme N. Baja California (Mexico).  
 COMMENT: Formerly included *meridionalis* and *obscurus*; see Callahan, 1977, J. Mammal., 58:188-201. See also comment under *obscurus*.  
 ISIS NUMBER: 5301410002007007001 as *Eutamias merriami*.
- Tamias minimus* Bachman, 1839. J. Acad. Nat. Sci. Phila., 8:71.  
 TYPE LOCALITY: U.S.A., Wyoming, Sweetwater Co., Green River, near mouth of Big Sandy Creek.  
 DISTRIBUTION: C. Yukon (Canada) south through Sierra Nevada and S. New Mexico, east to Michigan (U.S.A.) and W. Quebec (Canada).  
 ISIS NUMBER: 5301410002007008001 as *Eutamias minimus*.
- Tamias obscurus* J. A. Allen, 1890. Bull. Am. Mus. Nat. Hist., 3:70.  
 TYPE LOCALITY: Mexico, Baja California, Sierra San Pedro Martir, near Vallecitos.  
 DISTRIBUTION: S. California (San Bernardino Co., U.S.A.) to C. Baja California (Mexico).  
 COMMENT: Regarded by Howell, 1929, as a synonym of *merriami*; but see Callahan, 1977, J. Mammal., 58:188-201, who provided evidence of specific distinctness and included *meridionalis* and *davisi* in this species.
- Tamias ochrogenys* (Merriam, 1897). Proc. Biol. Soc. Wash., 11:195.  
 TYPE LOCALITY: U.S.A., California, Mendocino Co., Mendocino.  
 DISTRIBUTION: Coast of N. California from Van Duzen River south to S. Sonoma Co. (U.S.A.).  
 COMMENT: Elevated from subspecies of *townsendii* by Sutton and Nadler, 1974, Southwest. Nat., 19:199-212.

- Tamias palmeri* (Merriam, 1897). Proc. Biol. Soc. Wash., 11:208.  
TYPE LOCALITY: U.S.A., Nevada, Clark Co., Charleston Peak, 8000 ft. (2438 m).  
DISTRIBUTION: Charleston Mtns. (S. Nevada, U.S.A.).  
ISIS NUMBER: 5301410002007009001 as *Eutamias palmeri*.
- Tamias panamintinus* Merriam, 1893. Proc. Biol. Soc. Wash., 8:134.  
TYPE LOCALITY: U.S.A., California, Inyo Co., Panamint Mtns., Johnson Canyon, vicinity of Hungry Bill's Ranch, about 5000 ft. (1524 m).  
DISTRIBUTION: Mountains of S.E. California and S.W. Nevada (U.S.A.).  
ISIS NUMBER: 5301410002007010001 as *Eutamias panamintinus*.
- Tamias quadrimaculatus* Gray, 1867. Ann. Mag. Nat. Hist., ser. 3, 20:435.  
TYPE LOCALITY: U.S.A., California, Placer Co., Michigan Bluff.  
DISTRIBUTION: Sierra Nevada of E.C. California (Plumas to Mariposa Cos.) and adjacent W.C. Nevada (U.S.A.).  
ISIS NUMBER: 5301410002007011001 as *Eutamias quadrimaculatus*.
- Tamias quadrivittatus* (Say, 1823). In James, Account of an Exped., to Rocky Mtns..., 2:45.  
TYPE LOCALITY: U.S.A., Colorado, Fremont Co., Arkansas River, about 26 mi. (42 km) below Canon City.  
DISTRIBUTION: Mountains of Colorado and E. Utah south to N.E. Arizona and S. New Mexico (U.S.A.).  
COMMENT: Includes *australis* from the Organ Mtns., New Mexico; see Patterson, 1980, J. Mammal., 61:455-464.  
ISIS NUMBER: 5301410002007012001 as *Eutamias quadrivittatus*.
- Tamias ruficaudus* (A. H. Howell, 1920). Proc. Biol. Soc. Wash., 33:91.  
TYPE LOCALITY: U.S.A., Montana, Glacier Co., Upper St. Mary's Lake.  
DISTRIBUTION: N.E. Washington to W. Montana (U.S.A.), and S.E. British Columbia (Canada).  
ISIS NUMBER: 5301410002007013001 as *Eutamias ruficaudus*.
- Tamias senex* J. A. Allen, 1890. Bull. Am. Mus. Nat. Hist., 3:83.  
TYPE LOCALITY: U.S.A., California, Placer Co., summit of Donner Pass.  
DISTRIBUTION: Sierra Nevada of E.C. California and W.C. Nevada to N. coast of California, and N.C. Oregon (U.S.A.).  
COMMENT: Elevated from subspecies of *townsendii* by Sutton and Nadler, 1974, Southwest. Nat., 19:199-212.
- Tamias sibiricus* (Laxmann, 1769). Sibirische Briefe, Gottingen, p. 69.  
TYPE LOCALITY: U.S.S.R., R.S.F.S.R., Altaisk Krai, near Barnaul.  
DISTRIBUTION: N. European U.S.S.R. and Siberia, to China and Korea; Sakhalin; S. Kurile Isls. (U.S.S.R.); Hokkaido (Japan).  
COMMENT: Subgenus *Eutamias*; see Gromov *et al.*, 1965:125. See Chaworth-Musters, 1937, Ann. Mag. Nat. Hist., 19:158, for clarification of the type locality.  
ISIS NUMBER: 5301410002007014001 as *Eutamias sibiricus* (sic).
- Tamias siskiyou* (A. H. Howell, 1922). J. Mammal., 3:180.  
TYPE LOCALITY: U.S.A., California, Siskiyou Co., Siskiyou Mtns., summit of White Mtn., 6000 ft. (1829 m).  
DISTRIBUTION: Siskiyou Mtns. and coast of N. California to C. Oregon (U.S.A.).  
COMMENT: Elevated from subspecies of *townsendii* by Sutton and Nadler, 1974, Southwest. Nat., 19:199-212.
- Tamias sonomae* (Grinnell, 1915). Univ. Calif. Publ. Zool., 12:321.  
TYPE LOCALITY: U.S.A., California, Sonoma Co., 1 mi. (1.6 km) W. of Guerneville.  
DISTRIBUTION: N.W. California, from San Francisco Bay north to Siskiyou Co. (U.S.A.).  
ISIS NUMBER: 5301410002007015001 as *Eutamias sonomae*.
- Tamias speciosus* Merriam, 1890. In J. A. Allen, Bull. Am. Mus. Nat. Hist., 3:86.  
TYPE LOCALITY: U.S.A., California, San Bernardino Co., San Bernardino Mtns., Whitewater Creek, 7500 ft. (2255 m).  
DISTRIBUTION: Sierra Nevada from Mt. Lassen to San Bernardino Mtns. (California); W. Nevada (U.S.A.).  
ISIS NUMBER: 5301410002007016001 as *Eutamias speciosus*.

- Tamias striatus* (Linnaeus, 1758). Syst. Nat., 10th ed., 1:64.  
 TYPE LOCALITY: U.S.A., South Carolina, upper Savannah River.  
 DISTRIBUTION: S. Manitoba and Nova Scotia (Canada) to Louisiana, Alabama, and Georgia, east to Atlantic Coast (U.S.A.).  
 COMMENT: Subgenus *Tamias* see Gromov *et al.*, 1965:134. Type locality restricted by Howell, 1929, N. Am. Fauna, 52:14.  
 ISIS NUMBER: 5301410002035001001.
- Tamias townsendii* Bachman, 1839. J. Acad. Nat. Sci. Phila., 8(1):68.  
 TYPE LOCALITY: U.S.A., Oregon, Multnomah Co., lower Columbia River, near lower mouth of Willamette River.  
 DISTRIBUTION: S.W. British Columbia (Canada), W. Washington and Oregon to the Rogue River (U.S.A.).  
 COMMENT: Formerly included *ochrogenys*, *siskiyou* and *senex*; see comments under those species.  
 ISIS NUMBER: 5301410002007017001 as *Eutamias townsendii*.
- Tamias umbrinus* J. A. Allen, 1890. Bull. Am. Mus. Nat. Hist., 3:96.  
 TYPE LOCALITY: U.S.A., Utah, Summit Co., Uinta Mtns., Blacks Fork, about 8000 ft. (2438 m).  
 DISTRIBUTION: E. California and N. Arizona to N. Colorado, S.E. and N.W. Wyoming, and extreme S.W. Montana (U.S.A.).  
 ISIS NUMBER: 5301410002007018001 as *Eutamias umbrinus*.
- Tamiasciurus* Trouessart, 1880. Le Naturaliste, 2(37):292.  
 REVIEWED BY: F. J. Brenner (FJB); D. A. Sutton (DAS).  
 ISIS NUMBER: 5301410002036000000.
- Tamiasciurus douglasii* (Bachman, 1839). Proc. Zool. Soc. Lond., 1838:99.  
 TYPE LOCALITY: U.S.A., Oregon, Clatsop Co., mouth of Columbia River ("shores of Columbia River").  
 DISTRIBUTION: Coast and Cascade Ranges and Sierra Nevada of S.W. British Columbia (Canada) to S. California (U.S.A.).  
 COMMENT: Formerly included *mearnsi*; see Lindsay, 1981, J. Mammal., 62:673-682.  
 ISIS NUMBER: 5301410002036001001.
- Tamiasciurus hudsonicus* (Erxleben, 1777). Syst. Regn. Anim., 1:416.  
 TYPE LOCALITY: Canada, Ontario, mouth of the Severn River.  
 DISTRIBUTION: Alaska, throughout Canada (south of the tundra), W. U.S.A. in mountain states; N.E. U.S.A.  
 COMMENT: Includes *fremonti*; see Hardy, 1950, Proc. Biol. Soc. Wash., 63:13-14.  
 ISIS NUMBER: 5301410002036002001.
- Tamiasciurus mearnsi* (Townsend, 1897). Proc. Biol. Soc. Wash., 11:146.  
 TYPE LOCALITY: Mexico, Baja California Norte, San Pedro Martir Mountains.  
 DISTRIBUTION: Sierra San Pedro Martir Mountains (Baja California Norte, Mexico).  
 COMMENT: Formerly included in *douglasii*; see Lindsay, 1981, J. Mammal., 62:673-682.
- Tamiops* J. A. Allen, 1906. Bull. Am. Mus. Nat. Hist., 22:475.  
 COMMENT: Formerly included in *Callosciurus*; see Moore and Tate, 1965, Fieldiana Zool., 48:1-351, who revised *Tamiops*.  
 ISIS NUMBER: 5301410002037000000.
- Tamiops maritimus* (Bonhote, 1900). Ann. Mag. Nat. Hist., ser. 7, 5:51.  
 TYPE LOCALITY: China, Fukien, Foochow.  
 DISTRIBUTION: Hupei and Chekiang (China), through S. Vietnam and Laos; Hainan (China); Taiwan.  
 ISIS NUMBER: 5301410002037002001.
- Tamiops macclellandi* (Horsfield, 1840). Proc. Zool. Soc. Lond., 1839:152.  
 TYPE LOCALITY: India, Assam.  
 DISTRIBUTION: E. Nepal to N. Vietnam and Yunnan (China), south through Indochina to the S. Malay Peninsula.  
 ISIS NUMBER: 5301410002037001001.



*Tamias rodolphei* (Milne-Edwards, 1867). Rev. Mag. Zool. Paris, ser. 2, 19:227.

TYPE LOCALITY: Vietnam, Saigon.

DISTRIBUTION: E. Thailand; Kampuchea; S. Vietnam.

ISIS NUMBER: 5301410002037003001.

*Tamias swinhoi* (Milne-Edwards, 1874). Recherches...des Mammif., 1:308.

TYPE LOCALITY: China, Szechwan, Moupin (=Muping).

DISTRIBUTION: E. China to N. Burma and N. Vietnam.

ISIS NUMBER: 5301410002037004001.

*Trogopterus* Heude, 1898. Mem. Hist. Nat. Emp. Chin., 4(1):46-47.

ISIS NUMBER: 5301410002051000000.

*Trogopterus xanthipes* (Milne-Edwards, 1867). Ann. Sci. Nat. Zool., 8:376.

TYPE LOCALITY: China, N.E. of Hopei.

DISTRIBUTION: Montane forests, from Yunnan to C. and W. China.

COMMENT: Includes *edithae* (Yunnan), *himalaicus* (S. Tibet), *minax* (Szechwan), and *mordax* (Hupei); closely related to *Belomys* from S.E. Asia; see Corbet, 1978:87.

ISIS NUMBER: 5301410002051001001.

*Xerus* Hemprich and Ehrenberg, 1833. Symb. Phys. Mamm., 1.

COMMENT: Includes *Euxerus* and *Geosciurus*; see Amtmann, 1975, Part 6.1:2. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, considered *Euxerus* and *Geosciurus* distinct genera. *Euxerus* was considered distinct by Yalden *et al.*, 1976, Monitore Zool. Ital., n.s., suppl. 8(1):1-118, who were followed by Rupp, 1980, Saugetierk. Mitt., 28:87.

ISIS NUMBER: 5301410002038000000.

*Xerus erythropus* (E. Geoffroy, 1803). Cat. Mamm. Mus. Nat. Hist. Nat. Paris, p. 178.

TYPE LOCALITY: Senegal.

DISTRIBUTION: Morocco and Senegal to Ethiopia and Kenya.

COMMENT: Subgenus *Euxerus*; see Corbet, 1978:79, and Amtmann, 1975, Part 6.1:2; but also see comment under genus.

ISIS NUMBER: 5301410002038001001.

*Xerus inauris* (Zimmermann, 1780). Geogr. Gesch. Mensch. Vierf. Thiere, 2:344.

TYPE LOCALITY: South Africa, Kaffirland, 100 mi. (161 km) N. of Cape of Good Hope.

DISTRIBUTION: South Africa; S. Namibia; Botswana; W. Zimbabwe.

COMMENT: Subgenus *Geosciurus*; see Ellerman, 1940:422, and Amtmann, 1975, Part 6.1:2. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, considered *Geosciurus* a distinct genus.

ISIS NUMBER: 5301410002038002001.

*Xerus princeps* (Thomas, 1929). Proc. Zool. Soc. Lond., 1929:106.

TYPE LOCALITY: N. Namibia, C. Koakoveld, Otjitundua.

DISTRIBUTION: Namibia; S.W. desert region of Angola.

COMMENT: Subgenus *Geosciurus*; see Ellerman, 1940:422, and Amtmann, 1975, Part 6.1:2. Moore, 1959, Bull. Am. Mus. Nat. Hist., 118:153-206, considered *Geosciurus* a distinct genus.

ISIS NUMBER: 5301410002038003001.

*Xerus rutilus* (Cretzschmar, 1826). Atlas Ruppell's Reise Nordl. Africa Saugeth., p. 59.

TYPE LOCALITY: Ethiopia, "Eastern slope of Abyssinia."

DISTRIBUTION: N.E. Sudan; Ethiopia; Somalia; Kenya; N.E. Uganda; N.E. Tanzania.

COMMENT: Subgenus *Xerus*; see Ellerman, 1940:420, and Amtmann, 1975, Part 6.1:2.

ISIS NUMBER: 5301410002038004001.

### Family Geomyidae

REVIEWED BY: C. A. McLaughlin (CAM).

COMMENT: Genera revised by Russell, 1968, Univ. Kans. Publ. Mus. Nat. Hist., 16:473-579.

ISIS NUMBER: 5301410003000000000.

- Geomys Rafinesque*, 1817. *Am. Mon. Mag.*, 2(1):45.  
 REVIEWED BY: L. R. Heaney (LRH); K. T. Wilkins (KTW).  
 COMMENT: A key to the species of *Geomys* was published by Baker and Williams, 1974, *Mamm. Species*, 35:1-4.  
 ISIS NUMBER: 5301410003002000000.
- Geomys arenarius* Merriam, 1895. *N. Am. Fauna*, 8:139.  
 REVIEWED BY: J. Ramirez-Pulido (JRP).  
 TYPE LOCALITY: U.S.A., Texas, El Paso Co., El Paso.  
 DISTRIBUTION: Extreme W. Texas, S.W. and S.C. New Mexico (U.S.A.); N. Chihuahua (Mexico).  
 COMMENT: Reviewed by Williams and Baker, 1974, *Mamm. Species*, 36:1-3, and Williams and Genoways, 1978, *Ann. Carnegie Mus.*, 47:541-570.  
 ISIS NUMBER: 5301410003002001001.
- Geomys bursarius* (Shaw, 1800). *Trans. Linn. Soc. Lond.*, 5:227.  
 REVIEWED BY: E. B. Hart (EBH).  
 TYPE LOCALITY: U.S.A., Minnesota, Sherburne Co., Elk River.  
 DISTRIBUTION: S.C. Manitoba (Canada) to N.W. Indiana, S.W. Louisiana, S.C. Texas, E.C. New Mexico (U.S.A.).  
 COMMENT: Includes *breviceps* and *lutescens*; see Hall, 1981:499-500. Revised by Merriam, 1895, *N. Am. Fauna*, 8:120. A superspecies group composed of 3 to 5 species; under revision by Zimmerman, Heaney, and others (LRH). EBH believes *bursarius* probably contains three distinct species: (1) a species consisting of *ammophilus* and *attwateri*, (2) a species consisting of *brazensis*, *sagittalis*, *terricola*, *pratincola*, and *ludemani*, (3) a species consisting of the remaining subspecies. LRH disagrees with 2 and 3 above. Tucker and Schmidly, 1981 also considered *attwateri* distinct.  
 ISIS NUMBER: 5301410003002002001.
- Geomys personatus* True, 1889. *Proc. U.S. Nat. Mus.*, 11:159.  
 REVIEWED BY: J. Ramirez-Pulido (JRP).  
 TYPE LOCALITY: U.S.A., Texas, Cameron Co., Padre Isl.  
 DISTRIBUTION: S. Texas, south of San Antonio and Del Rio, including Padre and Mustang Isl. (U.S.A.); barrier beaches of extreme N.E. Tamaulipas (Mexico).  
 COMMENT: Reviewed by Davis, 1940, *Bull. Texas Agric. Exper. Sta.*, 590:1-38, and Williams and Genoways, 1981, *Ann. Carnegie Mus.*, 50(19):435-473.  
 ISIS NUMBER: 5301410003002006001.
- Geomys pinetis* Rafinesque, 1806. *Am. Mon. Mag.*, 2:45.  
 TYPE LOCALITY: U.S.A., Georgia, Screven Co.  
 DISTRIBUTION: N. and C. Florida; S. Georgia; S. Alabama (U.S.A.).  
 COMMENT: *G. tuza* is a junior synonym; see Harper, 1952, *Proc. Biol. Soc. Wash.*, 65:36. Includes *colonus*, *cumberlandius*, and *fontanelus*; see Williams and Genoways, 1980, *Ann. Carnegie Mus.*, 49:405-453. Reviewed by Pembleton and Williams, 1978, *Mamm. Species*, 86:1-3.  
 ISIS NUMBER: 5301410003002007001 as *G. pinetis*.  
 5301410003002003001 as *G. colonus*.  
 5301410003002004001 as *G. cumberlandius*.  
 5301410003002005001 as *G. fontanelus*.
- Geomys tropicalis* Goldman, 1915. *Proc. Biol. Soc. Wash.*, 28:134.  
 TYPE LOCALITY: Mexico, Tamaulipas, Altamira.  
 DISTRIBUTION: Vicinity of Altamira and Tampico in S.E. Tamaulipas (Mexico).  
 COMMENT: Elevated to species status by Alvarez, 1963, *Univ. Kans. Publ. Mus. Nat. Hist.*, 14:426-427. Reviewed by Baker and Williams, 1974, *Mamm. Species*, 35:1-4, and Williams and Genoways, 1977, *Ann. Carnegie Mus.*, 46:245-264.
- Orthogeomys* Merriam, 1895. *N. Am. Fauna*, 8:172.  
 REVIEWED BY: S. H. Jenkins (SHJ); R. D. Orr (RDO); J. Ramirez-Pulido (JRP); K. T. Wilkins (KTW).

- COMMENT: Includes *Heterogeomys* and *Macrogeomys*; see Russell, 1968, Univ. Kans. Publ. Mus. Nat. Hist., 16(6):528, who revised this genus.  
ISIS NUMBER: 5301410003005000000 as *Orthogeomys*.  
5301410003003000000 as *Heterogeomys*.  
5301410003004000000 as *Macrogeomys*.
- Orthogeomys cavator* (Bangs, 1902). Bull. Mus. Comp. Zool. Harv. Univ., 39:42.  
TYPE LOCALITY: Panama, Chiriqui Prov., Boquete, 4800 ft. (1463 m).  
DISTRIBUTION: N.W. Panama to C. Costa Rica.  
COMMENT: Reviewed by Goodwin, 1946, Bull. Am. Mus. Nat. Hist., 87:378-379.  
ISIS NUMBER: 5301410003004001001 as *Macrogeomys cavator*.
- Orthogeomys cherriei* (J. A. Allen, 1893). Bull. Am. Mus. Nat. Hist., 5:337.  
TYPE LOCALITY: Costa Rica, Limon Prov., Santa Clara.  
DISTRIBUTION: E. lowlands of Costa Rica.  
COMMENT: Revised by Goodwin, 1946, Bull. Am. Mus. Nat. Hist., 87:380-381.  
ISIS NUMBER: 5301410003004002001 as *Macrogeomys cherriei*.
- Orthogeomys cuniculus* Elliot, 1905. Proc. Biol. Soc. Wash., 18:234.  
TYPE LOCALITY: Mexico, Oaxaca, Zanatepec.  
DISTRIBUTION: Known only from the type locality.  
COMMENT: Reviewed by Nelson and Goldman, 1930, J. Mammal., 11:317.  
ISIS NUMBER: 5301410003005001001.
- Orthogeomys dariensis* (Goldman, 1912). Smithson. Misc. Coll., 60(2):8.  
TYPE LOCALITY: Panama, Darien Prov., Cana, upper Rio Tuyra, 2000 ft. (610 m).  
DISTRIBUTION: E. Panama.  
ISIS NUMBER: 5301410003004003001 as *Macrogeomys dariensis*.
- Orthogeomys grandis* (Thomas, 1893). Ann. Mag. Nat. Hist., ser. 6, 12:270.  
TYPE LOCALITY: Guatemala, Sacatepequez Prov., Duenas.  
DISTRIBUTION: Honduras to Jalisco (Mexico).  
COMMENT: Burt and Stirton, 1961, Misc. Publ. Mus. Zool. Univ. Mich., 117:52, included *pygacanthus* in *grandis*; Russell, 1968, Univ. Kans. Publ. Mus. Nat. Hist., 16(6):477-579, considered *pygacanthus* a distinct species and is followed here.  
ISIS NUMBER: 5301410003005002001.
- Orthogeomys heterodus* (Peters, 1865). Monatsb. Preuss. Akad. Wiss. Berlin, p. 177.  
TYPE LOCALITY: Costa Rica, San Jose Prov., Escazu Hts.  
DISTRIBUTION: C. Costa Rica.  
COMMENT: Reviewed by Goodwin, 1946, Bull. Am. Mus. Nat. Hist., 87:376-378.  
ISIS NUMBER: 5301410003004004001 as *Macrogeomys heterodus*.
- Orthogeomys hispidus* (Le Conte, 1852). Proc. Acad. Nat. Sci. Phila., 6:158.  
TYPE LOCALITY: Mexico, Veracruz, near Jalapa.  
DISTRIBUTION: Yucatan Peninsula, Belize, Guatemala, and N.W. Honduras, to S. Tamaulipas (Mexico).  
COMMENT: Includes *hondurensis*; may include *lanius*; see Hall, 1981:511, 512. Revised by Nelson and Goldman, 1929, Proc. Biol. Soc. Wash., 42:147-152.  
ISIS NUMBER: 5301410003003001001 as *Heterogeomys hispidus*.
- Orthogeomys lanius* (Elliot, 1905). Proc. Biol. Soc. Wash., 18:235.  
TYPE LOCALITY: Mexico, Veracruz, Xuchil, S.E. side of Mt. Orizaba.  
DISTRIBUTION: Known only from the type locality.  
COMMENT: May be conspecific with *hispidus*; see Hall, 1981:512.  
ISIS NUMBER: 5301410003003002001 as *Heterogeomys lanius*.
- Orthogeomys matagalpae* (J. A. Allen, 1910). Bull. Am. Mus. Nat. Hist., 28:97.  
TYPE LOCALITY: Nicaragua, Matagalpa, Pena Blanca.  
DISTRIBUTION: N.C. Nicaragua to S.C. Honduras.  
ISIS NUMBER: 5301410003004005001 as *Macrogeomys matagalpae*.
- Orthogeomys pygacanthus* Dickey, 1928. Proc. Biol. Soc. Wash., 41:9.  
TYPE LOCALITY: El Salvador, San Miguel Dept., Mt. Cacaguatique, 3500 ft. (1067 m).  
DISTRIBUTION: El Salvador.

COMMENT: This species was included in *grandis* by Burt and Stirton, 1961, Misc. Publ. Mus. Zool. Univ. Mich., 117:52, but was considered a distinct species by Russell, 1968, Univ. Kans. Publ. Mus. Nat. Hist., 16(6):477-579, and Corbet and Hill, 1980:139. Hall, 1981:509, followed Burt and Stirton, 1961, in including this species in *grandis*; Russell, 1968, was not mentioned.

ISIS NUMBER: 5301410003005003001.

*Orthogeomys underwoodi* (Osgood, 1931). Field Mus. Nat. Hist. Publ. Zool. Ser., 295, 18:143.

TYPE LOCALITY: Costa Rica, San Jose Prov., Alto de Jabillo Pirris, between San Geronimo and Pozo Azul.

DISTRIBUTION: W. Costa Rica.

ISIS NUMBER: 5301410003004006001 as *Macrogeomys underwoodi*.

*Pappogeomys* Merriam, 1895. N. Am. Fauna, 8:145.

REVIEWED BY: S. H. Jenkins (SHJ); J. Ramirez-Pulido (JRP); K. T. Wilkins (KTW).

COMMENT: Includes *Cratogeomys* and *Platygeomys*; see Hooper, 1946, J. Mammal., 27:397; Russell, 1968, Univ. Kans. Publ. Mus. Nat. Hist., 16(7):592, revised the genus.

ISIS NUMBER: 5301410003006000000 as *Pappogeomys*.

5301410003001000000 as *Cratogeomys*.

*Pappogeomys alcorni* Russell, 1957. Univ. Kans. Publ. Mus. Nat. Hist., 9:359.

TYPE LOCALITY: Mexico, Jalisco, 4 mi. (6 km) W. of Mazamitla, 6600 ft. (2012 m).

DISTRIBUTION: S.E. Jalisco (Mexico), in Sierra del Tigre Mtns.

ISIS NUMBER: 5301410003006001001.

*Pappogeomys bulleri* (Thomas, 1892). Ann. Mag. Nat. Hist., ser. 6, 10:196.

TYPE LOCALITY: Mexico, Jalisco, Talpa, W. slope Sierra de Mascota, 8500 ft. (2591 m).

DISTRIBUTION: Nayarit and Jalisco to Colima (Mexico).

COMMENT: Reviewed by Genoways and Jones, 1969, J. Mammal., 50:748-755.

ISIS NUMBER: 5301410003006002001.

*Pappogeomys castanops* (Baird, 1852). Rept. Stansbury's Expl. Surv. Grt. Salt Lake Utah, App. C, p. 313.

TYPE LOCALITY: U.S.A., Colorado, Bent Co., along prairie road to Bent's Fort, near present town of Las Animas.

DISTRIBUTION: S.E. Colorado and S.W. Kansas (U.S.A.) to N. Tamaulipas and C. San Luis Potosi (Mexico). Colima (Mexico) (JRP).

COMMENT: May represent two species; see Berry and Baker, 1972, J. Mammal., 53:303-309.

ISIS NUMBER: 5301410003006003001.

*Pappogeomys fumosus* (Merriam, 1892). Proc. Biol. Soc. Wash., 7:165.

TYPE LOCALITY: Mexico, Colima, 3 mi. (5 km) W. of Colima, 1700 ft. (518 m).

DISTRIBUTION: Plain of Colima (Mexico).

ISIS NUMBER: 5301410003001001001 as *Cratogeomys fumosus*.

*Pappogeomys gymnurus* (Merriam, 1892). Proc. Biol. Soc. Wash., 7:166.

TYPE LOCALITY: Mexico, Jalisco, Zapotlan (=Ciudad Guzman), 4000 ft. (1219 m).

DISTRIBUTION: S. and C. Jalisco, N.E. Michoacan (Mexico).

ISIS NUMBER: 5301410003001002001 as *Cratogeomys gymnurus*.

*Pappogeomys merriami* (Thomas, 1893). Ann. Mag. Nat. Hist., ser. 6, 12:271.

TYPE LOCALITY: Mexico, "Southern Mexico," probably Valley of Mexico.

DISTRIBUTION: W.C. Veracruz to Distrito Federal, Morelos, and surrounding areas, including S.E. central plateau and S. Sierra Madre Oriental (Mexico).

COMMENT: Includes *perotensis*, *oreocetes*, and *peregrinus*; see Russell, 1968, Univ. Kans. Publ. Mus. Nat. Hist., 16(7):706-712.

ISIS NUMBER: 5301410003001003001 as *Cratogeomys merriami*.

5301410003001005001 as *Cratogeomys oreocetes*.

5301410003001006001 as *Cratogeomys peregrinus*.

5301410003001007001 as *Cratogeomys perotensis*.

*Pappogeomys neglectus* (Merriam, 1902). Proc. Biol. Soc. Wash., 15:68.

TYPE LOCALITY: Mexico, Queretaro, Cerro de la Calentura, about 8 mi. (13 km) N.W. of Pinal de Amoles, 9500 ft. (2896 m).

DISTRIBUTION: Known only from the type locality.

ISIS NUMBER: 5301410003001004001 as *Cratogeomys neglectus*.

*Pappogeomys tylosrhinus* (Merriam, 1895). N. Am. Fauna, 8:167.

TYPE LOCALITY: Mexico, Hidalgo, Tula, 6800 ft. (2073 m).

DISTRIBUTION: Distrito Federal, and Hidalgo to C. Jalisco (Mexico).

COMMENT: Includes *planiceps*; see Russell, 1968, Univ. Kans. Publ. Mus. Nat. Hist., 16(7):735.

ISIS NUMBER: 5301410003001009001 as *Cratogeomys tylosrhinus*.

5301410003001008001 as *Cratogeomys planiceps*.

*Pappogeomys zinseri* (Goldman, 1939). J. Mammal., 20:91.

TYPE LOCALITY: Mexico, Jalisco, Lagos, 6150 ft. (1875 m).

DISTRIBUTION: N.E. Jalisco (Mexico).

ISIS NUMBER: 5301410003001010001 as *Cratogeomys zinseri*.

*Thomomys* Wied, 1839. Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol., 19(1):377.

REVIEWED BY: R. D. Orr (RDO).

ISIS NUMBER: 5301410003007000000.

*Thomomys bottae* (Eydox and Gervais, 1836). Mag. Zool. Paris, 6:23.

REVIEWED BY: J. Ramirez-Pulido (JRP).

TYPE LOCALITY: U.S.A., California, Monterey Co., Monterey, along coast.

DISTRIBUTION: S.W. U.S.A., north to Oregon and Colorado, south to Sinaloa and Nuevo Leon (Mexico).

COMMENT: Includes *baileyi*, *fulvus*, *suboles*, *harquahalae*, *pectoralis*, and *lachuguilla*; see Anderson, 1966, Syst. Zool., 15:189-198, and Hoffmeister, 1969, Misc. Publ. Univ. Kans. Mus. Nat. Hist., 51:75-91, who revised this species. Hoffmeister, 1969, found evidence of hybridization between *bottae* and *umbrinus* in Sycamore Canyon, Arizona; he provisionally considered *bottae* and *umbrinus* distinct species. Hall, 1981:469, reported evidence of intergradation in Nuevo Leon (Mexico), reviewed Hoffmeister, 1969, and included *bottae* in *umbrinus*.

ISIS NUMBER: 5301410003007002001 as *T. bottae*.

5301410003007001001 as *T. baileyi*.

*Thomomys bulbivorus* (Richardson, 1829). Fauna Boreali-Americana, 1:206.

TYPE LOCALITY: U.S.A., Oregon, banks of Columbia River, probably near Portland.

DISTRIBUTION: Willamette Valley (N.W. Oregon, U.S.A.).

COMMENT: Revised by Bailey, 1915, N. Am. Fauna, 39:1-136.

ISIS NUMBER: 5301410003007003001 as *T. bulbivorus* (sic).

*Thomomys clusius* Coues, 1875. Proc. Acad. Nat. Sci. Phila., 27:138.

TYPE LOCALITY: U.S.A., Wyoming, Carbon Co., Bridger Pass, 18 mi. (29 km) S.W. Rawlins.

DISTRIBUTION: Carbon and Sweetwater Cos. (C. Wyoming, U.S.A.).

COMMENT: Formerly included in *talpoides*; revised by Thaeler and Hinesley, 1979, J. Mammal., 60:480-488.

*Thomomys idahoensis* Merriam, 1901. Proc. Biol. Soc. Wash., 14:114.

TYPE LOCALITY: U.S.A., Idaho, Clark Co., Birch Creek.

DISTRIBUTION: E.C. Idaho, adjacent Montana and W. Wyoming; N. Utah (U.S.A.).

COMMENT: Includes *pygmaeus* and *confinus*; see Thaeler, 1972, J. Mammal., 53:417-428, Murrelet, 1977, and J. Mammal., 58:49-51, who revised this species. Formerly included in *talpoides* by Hall and Kelson, 1959:441, but see Hall, 1981:1179.

ISIS NUMBER: 5301410003007004001.

*Thomomys mazama* Merriam, 1897. Proc. Biol. Soc. Wash., 11:214.

TYPE LOCALITY: U.S.A., Oregon, Klamath Co., Anna Creek near Crater Lake, Mt. Mazama, 6000 ft. (1829 m).

DISTRIBUTION: N.W. Washington through C. Oregon to N. California (U.S.A.).

COMMENT: Revised by Thaeler, 1968, Univ. Calif. Publ. Zool., 86:1-46.

ISIS NUMBER: 5301410003007005001.

*Thomomys monticola* J. A. Allen, 1893. Bull. Am. Mus. Nat. Hist., 5:48.

TYPE LOCALITY: U.S.A., California, El Dorado Co., Mt. Tallac, 7500 ft. (2286 m).

DISTRIBUTION: Sierra Nevada Mtns. of N. and E.C. California; W.C. Nevada (U.S.A.).

COMMENT: Revised by Thaeler, 1968, Univ. Calif. Publ. Zool., 86:1-46.

ISIS NUMBER: 5301410003007006001.

*Thomomys talpoides* (Richardson, 1828). Zool. J., 3:518.

TYPE LOCALITY: Canada, Saskatchewan, North Saskatchewan River, Carlton House near Fort Carlton.

DISTRIBUTION: S. British Columbia and C. Alberta to S.W. Manitoba (Canada), south to C. and W. South Dakota, N. New Mexico, N. Arizona, C. and W. Nevada, and E.C. California (U.S.A.).

COMMENT: Formerly included *idahoensis* and *clusius*; see Thaeler, 1972, J. Mammal., 53:417-428, and Thaeler and Hinesley, 1979, J. Mammal., 60:480-488. Revised by Bailey, 1915, N. Am. Fauna, 39:1-136, Thaeler, 1968, Chromosoma, 25:172-183, and Thaeler, 1974, J. Mammal., 55:885-889.

ISIS NUMBER: 5301410003007007001.

*Thomomys townsendii* (Bachman, 1839). J. Acad. Nat. Sci. Phila., 8:105.

TYPE LOCALITY: U.S.A., Idaho, Canyon Co., near Nampa.

DISTRIBUTION: S.E. Idaho; S.W. Idaho; S.E. Oregon, N. Nevada, and N.E. California (U.S.A.).

COMMENT: Revised by Davis, 1937, J. Mammal., 18:145-158. Considered a distinct species by Thaeler, 1968, Evolution, 22:543-555, who provided evidence of a zone of hybridization between *bottae* and *townsendii*. Hall, 1981:469, 495, reviewed this evidence and included *townsendii* in *umbrinus* (*sensu* Hall). Includes *similis* which may be a distinct species (RDO).

ISIS NUMBER: 5301410003007008001.

*Thomomys umbrinus* (Richardson, 1829). Fauna Boreali-Americana, 1:202.

REVIEWED BY: J. Ramirez-Pulido (JRP).

TYPE LOCALITY: Mexico, Veracruz (probably vicinity of Boca del Norte).

DISTRIBUTION: S.W. U.S.A. to Puebla and Veracruz (Mexico).

COMMENT: Revised by Hoffmeister, 1969, Misc. Publ. Univ. Kans. Mus. Nat. Hist., 51:75-91. Hall, 1981:469, included *baileyi*, *bottae*, and *townsendii* in this species based on a reevaluation of data in Hoffmeister, 1969, Thaeler, 1968, Evolution, 22:543-555, and reported intergradation (between *umbrinus* and *bottae*) in Nuevo Leon (Mexico). Hoffmeister, 1969, considered *bottae* a distinct species; Thaeler, 1968, considered *townsendii* a distinct species. Further studies of these taxa are needed.

ISIS NUMBER: 5301410003007009001.

*Zygozomys* Merriam, 1895. N. Am. Fauna, 8:195.

REVIEWED BY: R. D. Orr (RDO); J. Ramirez-Pulido (JRP).

ISIS NUMBER: 5301410003008000000.

*Zygozomys trichopus* Merriam, 1895. N. Am. Fauna, 8:196.

TYPE LOCALITY: Mexico, Michoacan, Nahuatzen, 8000-8500 ft. (2438-2591 m).

DISTRIBUTION: Known from the type locality, and 6 mi. (10 km) S.E. of Patzcuaro (C. Michoacan, Mexico).

ISIS NUMBER: 5301410003008001001.

### Family Heteromyidae

REVIEWED BY: D. F. Williams (DFW).

ISIS NUMBER: 5301410004000000000.

*Dipodomys* Gray, 1841. Ann. Mag. Nat. Hist., ser. 1, 7:521.

REVIEWED BY: T. L. Best (TLB); J. Ramirez-Pulido (JRP) (Mexico).

COMMENT: Interspecific relationships discussed by Schnell *et al.*, 1978, Syst. Zool., 27:34-48, and Johnson and Selander, 1971, Syst. Zool., 20:377-405.

ISIS NUMBER: 5301410004001000000.