

ORDER CARNIVORA

COMMENT: Includes Pinnipedia (Otariidae, Odobenidae, Phocidae); see Tedford, 1977; but also see Hall, 1981, and Corbet and Hill, 1980.

ISIS NUMBER: 530141200000000000.

Family Canidae

REVIEWED BY: A. Langguth (AL); J. Ramirez-Pulido (JRP)(Mexico); O. L. Rossolimo (OLR)(U.S.S.R.); H. J. Stains (HJS); R. G. Van Gelder (RGVG).

COMMENT: Several alternative classifications have been published in recent years; see Langguth, 1969, *Z. Wiss. Zool.*, 179:1-188; Langguth, 1975, in Fox, *The Wild Canids*, pp. 192-206; Clutton-Brock *et al.*, 1976, 29(3):177-199; Van Gelder, 1978:1-10. Three groups of closely related Recent genera or subgenera may be distinguished on the basis of anatomical as well as chromosomal evidence: 1) *Canis*, *Lycaon*, *Cuon*; 2) *Vulpes*, *Fennecus*, *Alopex*, *Otocyon* and *Urocyon*; 3) all other recent South American taxa (AL).

ISIS NUMBER: 5301412001000000000.

Alopex Kaup, 1829. *Skizz. Europ. Theirwelt*, 1:85.

COMMENT: Included in *Vulpes* as a subgenus by Bobrinskii *et al.*, 1965, [Key to the mammals of the U.S.S.R.], "Proveshchenie," Moscow, p. 127.

ISIS NUMBER: 5301412001001000000.

Alopex lagopus (Linnaeus, 1758). *Syst. Nat.*, 10th ed., 1:40.

TYPE LOCALITY: N. Scandinavia, Lapland.

DISTRIBUTION: Circumpolar, entire tundra zone of the Holarctic, including most of the Arctic islands.

COMMENT: Placed in genus *Canis*, subgenus *Alopex* by Van Gelder, 1978:8.

ISIS NUMBER: 5301412001001001001.

Canis Linnaeus, 1758. *Syst. Nat.*, 10th ed., 1:38.

REVIEWED BY: A. C. Ziegler (ACZ).

COMMENT: Van Gelder, 1978:1-10 included *Alopex*, *Atelocynus*, *Cerdocyon*, *Pseudalopex*, *Lycalopex*, *Dusicyon*, and *Vulpes* as subgenera. However, this arrangement is not currently employed by most mammalogists; see Corbet, 1978:161; Corbet and Hill, 1980; Hall, 1981:923; Gromov and Baranova, 1981:239.

ISIS NUMBER: 5301412001003000000.

Canis adustus Sundevall, 1846. *Ofv. Kongl. Svenska Vet.-Akad. Forhandl. Stockholm*, 3:121.

TYPE LOCALITY: South Africa, Transvaal, Magaliesberg (W. Pretoria), "Caffraria Interiore."

DISTRIBUTION: Open woodland and semi-arid grassland from Senegal to Ethiopia, south to N. Namibia, N. Botswana, Zimbabwe, Mozambique and N. South Africa.

ISIS NUMBER: 5301412001003001001.

Canis aureus Linnaeus, 1758. *Syst. Nat.*, 10th ed., 1:40.

TYPE LOCALITY: Iran, Lar Prov.

DISTRIBUTION: N. and E. Africa, south to Senegal, Nigeria, and Tanzania; S. W. Asia; S. E. Europe; Transcaucasia; C. Asia; Iran; Afghanistan; S. Asia to Thailand, including Sri Lanka.

ISIS NUMBER: 5301412001003002001.

Canis latrans Say, 1823. In Long, *Account of an Exped. from Pittsburgh to the Rocky Mtns.*, 1:168.

REVIEWED BY: M. Bekoff (MB).

TYPE LOCALITY: U.S.A., Nebraska, Washington Co., Engineer Cantonment, about 12 mi. (19.2 km) S. E. Blair.

DISTRIBUTION: Originally may have occurred W. of the Mississippi R., N. to about 55° N. lat., and south to Mexico City. Has extended its range north to N. Alaska (U.S.A.), Northwest Territories and Hudson Bay (Canada), south to Costa Rica, and east to the Atlantic coast.

COMMENT: Reviewed by Bekoff, 1977, *Mamm. Species*, 79:1-9. See Young, 1951, *The clever coyote*, *Wildl. Mng. Inst.*, Washington, D.C., p. 29, for a discussion of distribution.

ISIS NUMBER: 5301412001003004001.

Canis lupus Linnaeus, 1758. Syst. Nat., 10th ed., 1:39.

TYPE LOCALITY: Sweden, Uppsala.

DISTRIBUTION: North America south to 20° N., in Oaxaca (Mexico); Europe; Asia, including the Arabian Peninsula and Japan; not in the Indochinese peninsula or southern India.

COMMENT: Probably ancestor of and conspecific with the domestic dog, *familiaris*, (RGVG); *familiaris* has page priority over *lupus* in Linnaeus, 1758, but both were published simultaneously, and *lupus* has been universally used for this species. Extinct in much of its former range (AL). Reviewed by Mech, 1974, Mamm. Species, 37:1-6.

PROTECTED STATUS: CITES - Appendix I as *C. lupus* (Indian, Pakistan, Bhutan, and Nepal populations only).

CITES - Appendix II (all populations not listed on Appendix I) U.S. ESA - Endangered, 48 conterminous states (other than Minnesota) and Mexico. U.S. ESA - Threatened, Minnesota populations only.

ISIS NUMBER: 5301412001003005001 as *C. lupus*.

5301412001003003001 as *C. familiaris*.

Canis mesomelas Schreber, 1778. Säugethiere, pl. 95; text 3:370, 568.

TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.

DISTRIBUTION: Africa, south of the tropical rain-forest in the west and as far north as Ethiopia and Sudan in the east.

ISIS NUMBER: 5301412001003006001.

Canis rufus Audubon and Bachman, 1851. The Viviparous Quadrupeds of North America, 2:240.

TYPE LOCALITY: U.S.A., Texas, 15 mi. (24 km) W. Austin.

DISTRIBUTION: S. E. and S. C. U.S.A., from Florida to C. Texas and north to S. Indiana and Missouri.

COMMENT: The widely used name *niger* has been rejected by opinion 447 of the ICZN. The validity of *rufus* as a species has been questioned by Clutton-Brock *et al.*, 1976, 29(3):143, due to the existence of natural hybrids with *lupus* and *latrans*. Natural hybridization may be a consequence of habitat disruption by man; see Paradiso and Nowak, 1972, U.S. Fish and Wild. Serv., Spec. Sci. Rep. Wildl., 145; Nowak, 1979, Univ. Kans. Mus. Nat. Hist. Monogr., 6:1-154, who provided evidence for specific distinctness. Reviewed by Paradiso and Nowak, 1972, Mamm. Species, 22:1-4. Type locality restricted by Goldman, 1937, J. Mammal., 18:38.

PROTECTED STATUS: U.S. ESA - Endangered.

ISIS NUMBER: 5301412001003007001.

Canis simensis Ruppell, 1835. Neue Wirbelt. Fauna Abyssin. Gehorig. Säugeth., 1:39, pl. 14.

TYPE LOCALITY: Ethiopia, mountains of Simen.

DISTRIBUTION: C. Ethiopia.

PROTECTED STATUS: U.S. ESA - Endangered as *C. (=Simia) simensis*.

ISIS NUMBER: 5301412001003008001.

Chrysocyon H. Smith, 1839. Jardine's Natur. Libr., 9:241.

REVIEWED BY: K. L. Anderson (KLA).

ISIS NUMBER: 5301412001005000000.

Chrysocyon brachyurus (Illiger, 1815). Abh. Preuss. Akad. Wiss., 1804-1811:121.

TYPE LOCALITY: Paraguay, "swamps of Paraguay."

DISTRIBUTION: N. E. Argentina; Paraguay; lowlands of Bolivia; Brazil from Rio Grande do Sul to Minas Gerais, Goiás and Mato Grosso.

PROTECTED STATUS: CITES - Appendix II and U.S. ESA - Endangered.

ISIS NUMBER: 5301412001005001001.

Cuon Hodgson, 1838. Ann. Mag. Nat. Hist., 1:152.

ISIS NUMBER: 5301412001006000000.

Cuon alpinus (Pallas, 1811). Zoogr. Rosso-Asiat., 1:34.

TYPE LOCALITY: U.S.S.R., Amurskaya Obl., Udskaa-Ostrog.

DISTRIBUTION: Java; Sumatra; Malaysia; montane forest areas of the Indian peninsula and N. Pakistan through Tibet; Indochina and China to Korea and Ussuri region (U.S.S.R.), and mountains of S. Siberia and N. Mongolia.

COMMENT: Reviewed by Cohen, 1978, Mamm. Species, 100:1-3.

PROTECTED STATUS: CITES - Appendix II and U.S. ESA - Endangered.

ISIS NUMBER: 5301412001006001001.

Dusicyon H. Smith, 1839. Jardine's Natur. Libr., 9:243.

REVIEWED BY: K. L. Anderson (KLA).

COMMENT: Includes *Atelocynus*, *Cerdocyon*, *Lycalopex*, and *Pseudalopex*; see comments under *culpaeus*, *microtis*, *thous*, and *vetulus*.

ISIS NUMBER: 5301412001007000000 as *Dusicyon*.

5301412001002000000 as *Atelocynus*.

5301412001004000000 as *Cerdocyon*.

5301412001009000000 as *Lycalopex*.

Dusicyon australis (Kerr, 1792). Anim. Kingdom, p. 144.

TYPE LOCALITY: Falkland Islands (U.K.).

DISTRIBUTION: Falkland Islands.

COMMENT: Subgenus *Dusicyon*; see Cabrera, 1958:229, and Van Gelder, 1978:7.

Exterminated by the end of the 19th century (AL).

Dusicyon culpaeus (Molina, 1782). Sagg. Stor. Nat. Chile, p. 293.

TYPE LOCALITY: Chile, Santiago Prov.

DISTRIBUTION: From Tierra del Fuego along the Andes of Chile and Argentina, the highlands of Bolivia, Peru, Ecuador, and Colombia.

COMMENT: Subgenus *Dusicyon* or *Pseudalopex*; see Cabrera, 1958:230; Van Gelder, 1978:7. *Pseudalopex* has been considered a synonym of *Dusicyon* by Cabrera, 1958:229, and Clutton-Brock *et al.*, 1976, 29(3):166; a subgenus of *Dusicyon* by Langguth, 1969, Z. Wiss. Zool., 179:176; a subgenus of *Canis* by Langguth, 1975:193, and Van Gelder, 1978:7. Includes *culpaeolus* (part) and *inca* (part), mismatched skin and skull; see Langguth, 1967, Neotropica, 13:21-28. AL considers *Pseudalopex* a distinct genus. Type locality restricted by Cabrera, 1931, J. Mammal., 12:62.

PROTECTED STATUS: CITES - Appendix II.

ISIS NUMBER: 5301412001007001001.

Dusicyon griseus (Gray, 1837). Mag. Nat. Hist., 1:578.

TYPE LOCALITY: Chile, Coast of Magellan Straits.

DISTRIBUTION: Atacama (Chile) and Santiago del Estero (Argentina) south to Tierra del Fuego.

COMMENT: Subgenus *Dusicyon* or *Pseudalopex*; see Cabrera, 1958:233; Van Gelder, 1978:7. *Pseudalopex* has been considered a synonym of *Dusicyon* by Cabrera, 1958:229, and Clutton-Brock *et al.*, 1976, 29(3):166; a subgenus of *Dusicyon* by Langguth, 1969, Z. Wiss. Zool., 179:176; a subgenus of *Canis* by Langguth, 1975:193, and Van Gelder, 1978:7. Includes *fulvipes*; see Corbet and Hill, 1980:93; Langguth, 1969, Z. Wiss. Zool., p. 179.

PROTECTED STATUS: CITES - Appendix II as *D. griseus*.

CITES - Appendix II as *D. fulvipes*.

ISIS NUMBER: 5301412001007002001.

Dusicyon gymnocercus (G. Fischer, 1814). Zoognosia, 3:178.

TYPE LOCALITY: Paraguay, vicinity of Asuncion.

DISTRIBUTION: Argentina, north of Rio Negro; Paraguay; Uruguay; S. Brazil; E. Bolivia.

COMMENT: Subgenus *Dusicyon* or *Pseudalopex*; see Cabrera, 1958:234; Van Gelder, 1978:7. *Pseudalopex* has been considered a synonym of *Dusicyon* by Cabrera, 1958:229; and Clutton-Brock *et al.*, 1976, 29(3):166; a subgenus of *Dusicyon* by Langguth, 1969, Z. Wiss. Zool., 179:176; a subgenus of *Canis* by Langguth, 1975:193; and Van Gelder, 1978:7. Includes *culpaeolus* (part) and *inca* (part),

mismatched skin and skull; see Langguth, 1967, *Neotropica*, 13:21-38. AL considers *inca* a synonym of *culpaeus*. Type locality restricted by Cabrera, 1958:235.

ISIS NUMBER: 5301412001007003001.

Dusicyon microtis (Sclater, 1883). *Proc. Zool. Soc. Lond.*, 1882:631.

REVIEWED BY: H. E. Evans (HEE).

TYPE LOCALITY: Brazil, Para, S. bank Rio Amazonas.

DISTRIBUTION: Amazonian region of Brazil, Peru, Ecuador, and Colombia; perhaps Bolivia.

COMMENT: Subgenus *Atelocynus*; see Cabrera, 1958:236; Van Gelder, 1978:8, but also see Hershkovitz, 1961, *Fieldiana Zool.*, 39:505-523. Corbet and Hill, 1980:93, listed this species in *Dusicyon*. HEE, KLA, and AL consider *Atelocynus* a distinct genus.

ISIS NUMBER: 5301412001002001001 as *Atelocynus microtis*.

Dusicyon sechurae Thomas, 1900. *Ann. Mag. Nat. Hist.*, ser. 7, 5:148.

TYPE LOCALITY: Peru, Piura Dept., Sechura Desert, Sullana.

DISTRIBUTION: N. W. Peru and S. W. Ecuador.

COMMENT: Subgenus *Dusicyon* or *Pseudalopex*; see Cabrera, 1958:235; Van Gelder, 1978:7. *Pseudalopex* has been considered a synonym of *Dusicyon* by Cabrera, 1958:229; and Clutton-Brock *et al.*, 1976, 29(3):166; a subgenus of *Dusicyon* by Langguth, 1969, *Z. Wiss. Zool.*, 179:176; a subgenus of *Canis* by Langguth, 1975:193; and Van Gelder, 1978:7.

ISIS NUMBER: 5301412001007004001.

Dusicyon thous (Linnaeus, 1766). *Syst. Nat.*, 12th ed., 1:60.

REVIEWED BY: H. E. Evans (HEE).

TYPE LOCALITY: Surinam.

DISTRIBUTION: Uruguay; N. Argentina; Paraguay; lowlands of Bolivia, Brazil except Amazonia; Guianas; Venezuela; Colombia.

COMMENT: Subgenus *Cerdocyon*; see Cabrera, 1958:237; Van Gelder, 1978:7. KLA and AL consider *Cerdocyon* a distinct genus.

ISIS NUMBER: 5301412001004001001 as *Cerdocyon thous*.

Dusicyon vetulus Lund, 1842. *Kongl. Dansk. Vid. Selsk. Naturv. Math. Afhandl.*, 9:4.

TYPE LOCALITY: Brazil, Minas Gerais, Lagoa Santa.

DISTRIBUTION: C. Brazilian Highlands in the States of Mato Grosso, Goias, Minas Gerais, Bahia, and Sao Paulo.

COMMENT: Subgenus *Dusicyon* or *Lycalopex*; see Cabrera, 1958:236; Van Gelder, 1978:8. *Lycalopex* has also been considered a synonym of *Dusicyon* by Clutton-Brock *et al.*, 1976, 29(3):186. AL considers *Lycalopex* a distinct genus.

ISIS NUMBER: 5301412001009001001 as *Lycalopex vetulus*.

Lycaon Brookes, 1827. *In Griffith's Cuvier Anim. Kingd.*, 5:151.

ISIS NUMBER: 5301412001010000000.

Lycaon pictus (Temminck, 1820). *Ann. Gen. Sci. Phys.*, 3:54, pl. 35.

TYPE LOCALITY: Mozambique, on the coast.

DISTRIBUTION: Subsaharan Africa, except in the desert area of the north and the tropical rain-forest of the west.

ISIS NUMBER: 5301412001010001001.

Nyctereutes Temminck, 1839. *In van der Hoeven, Tijdschr. Nat. Ges. Phys.*, 5:285.

ISIS NUMBER: 5301412001011000000.

Nyctereutes procyonoides (Gray, 1834). *Illustr. Indian Zool.*, 2:pl. 1.

TYPE LOCALITY: China, near Canton.

DISTRIBUTION: Ussuri region (U.S.S.R.); China; Japan; N. Indochina.

COMMENT: Introduced and feral in eastern and middle Europe (AL).

ISIS NUMBER: 5301412001011001001.

- Otocyon* Muller, 1836. Arch. Anat. Physiol., Jahresber. Fortschr. Wiss., 1835:1.
 ISIS NUMBER: 5301412001012000000.
- Otocyon megalotis* (Desmarest, 1821). Encyclop. Method. Mamm., Suppl., p. 538.
 TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.
 DISTRIBUTION: S. and E. Africa to Ethiopia.
 ISIS NUMBER: 5301412001012001001.
- Speothos* Lund, 1839. Ann. Sci. Nat. Zool., ser. 2, 11:224.
 REVIEWED BY: K. L. Anderson (KLA).
 COMMENT: Includes *Icticyon*; see Berta and Marshall, 1978, Foss. Cata., 125:10.
 ISIS NUMBER: 5301412001013000000.
- Speothos venaticus* (Lund, 1842). Kongl. Dansk. Vid. Selsk. Naturv. Math. Afhandl., 9:67.
 TYPE LOCALITY: Brazil, Minas Gerais, Lagoa Santa.
 DISTRIBUTION: Forested areas of Bolivia, Paraguay and Brazil (except the semiarid N. E.); E. Peru; Ecuador; Colombia; Venezuela; Guyana; French Guiana; Surinam; Panama.
 PROTECTED STATUS: CITES - Appendix I.
 ISIS NUMBER: 5301412001013001001.
- Urocyon* Baird, 1858. Mammals, in Repts. Expl. Surv., 8(1):121.
 COMMENT: Included in *Vulpes* as a subgenus by Clutton-Brock *et al.*, 1976, 29(3):117-199 but see Hall, 1981:941.
 ISIS NUMBER: 5301412001014000000.
- Urocyon cinereoargenteus* (Schreber, 1775). Säugethiere, 2(13):pl. 92.
 TYPE LOCALITY: E. North America.
 DISTRIBUTION: North America from Oregon, Nevada, Utah and Colorado in the West and the U.S.A.-Canadian border in the East through Central America to N. Colombia and Venezuela.
 COMMENT: Placed in genus *Canis*, subgenus *Vulpes* which includes *Urocyon* by Van Gelder, 1978:6. Clutton-Brock *et al.*, 1976, 29(3):117-199, retained *Vulpes*, including *Urocyon*.
 ISIS NUMBER: 5301412001014001001.
- Urocyon littoralis* (Baird, 1858). Mammals, in Repts. Expl. Surv., 8(1):143.
 TYPE LOCALITY: U.S.A., California, San Miguel Isl.
 DISTRIBUTION: Islands off the Pacific coast of S. California (U.S.A.).
 COMMENT: Placed in genus *Canis*, subgenus *Vulpes* which includes *Urocyon*; may be a subspecies of *cinereoargenteus*; see Van Gelder, 1978:8. Clutton-Brock *et al.*, 1976, 29(3):117-199, retained *Vulpes*, including *Urocyon*.
 ISIS NUMBER: 5301412001014002001.
- Vulpes* Bowdich, 1821. An analysis of the natural classification of Mammalia, p. 40.
 COMMENT: Included in *Canis* as a subgenus by Van Gelder, 1978:1-10. However, this arrangement is not currently employed by most mammalogists; see Corbet, 1978:162-163; Corbet and Hill, 1980; Hall, 1981:936; Gromov and Baranova, 1981:242-243. Includes *Fennecus*; see comments under *zerda* and *Urocyon*.
 ISIS NUMBER: 5301412001015000000 as *Vulpes*.
 5301412001008000000 as *Fennecus*.
- Vulpes bengalensis* (Shaw, 1800). Gen. Zool. Syst. Nat. Hist., 1(2):330.
 TYPE LOCALITY: Pakistan, Bangladesh, "Bengal."
 DISTRIBUTION: India; Pakistan; S. Nepal.
 COMMENT: Placed in genus *Canis*, subgenus *Vulpes* by Van Gelder, 1978:8.
 ISIS NUMBER: 5301412001015001001.
- Vulpes cana* Blanford, 1877. J. Asiat. Soc. Bengal, 2:321.
 TYPE LOCALITY: Pakistan, Baluchistan, Gwadar.
 DISTRIBUTION: Turkmenia (S.E. U.S.S.R.); Afghanistan; N. E. Iran; Pakistan.
 COMMENT: Placed in genus *Canis*, subgenus *Vulpes*; by Van Gelder, 1978:8.
 PROTECTED STATUS: CITES - Appendix II.
 ISIS NUMBER: 5301412001015002001.

Vulpes chama (A. Smith, 1833). S. Afr. J., 2:89.

TYPE LOCALITY: Namibia, Namaqualand and country on both sides of the Orange River.

DISTRIBUTION: Africa, S. of Angola and Zambia.

COMMENT: Placed in genus *Canis*, subgenus *Vulpes* by Van Gelder, 1978:8.

ISIS NUMBER: 5301412001015003001.

Vulpes corsac (Linnaeus, 1768). Syst. Nat., 12th ed., 3: appendix 223.

TYPE LOCALITY: U.S.S.R., N. Kazakhstan, steppes between Ural and Irtysh rivers, near Petropavlovsk.

DISTRIBUTION: Steppes of S.E. U.S.S.R., Kazakhstan, C. Asia, Mongolia, Transbaikalia, N.E. China; N. Afghanistan.

COMMENT: Placed in genus *Canis*, subgenus *Vulpes* by Van Gelder, 1978:8.

ISIS NUMBER: 5301412001015004001.

Vulpes ferrilata Hodgson, 1842. J. Asiatic Soc. Bengal, 11:278.

TYPE LOCALITY: China, Tibet, near Lhasa.

DISTRIBUTION: Tibet, Tsinghai, Kansu, and Yunnan (China)(SW); Nepal.

COMMENT: Placed in genus *Canis*, subgenus *Vulpes* by Van Gelder, 1978:8.

ISIS NUMBER: 5301412001015005001.

Vulpes macrotis Merriam, 1888. Proc. Biol. Soc. Wash., 4:136.

REVIEWED BY: H. J. Egoscue (HJE).

TYPE LOCALITY: U.S.A., California, Riverside Co., vicinity of Box Springs, within 10 mi. (16 km) S. E of Riverside.

DISTRIBUTION: Western U.S.A. from S. Oregon to Zacatecas (Mexico) and east to W. Texas and E. New Mexico.

COMMENT: Partly revised by Waithman and Roest, 1977, J. Mammal., 58:157-164.

Distinct from *velox*; see Thornton and Creel, 1975, Texas J. Sci., 26:127-136; and Rohwer and Kilgore, 1973, Syst. Zool., 22:157-165, who found hybrids between *velox* and *macrotis* but concluded they were of reduced viability, and retained both as species; but also see Hall, 1981:940. Clutton-Brock, *et al.*, 1976, 29(3):117-199, combined *velox* and *macrotis* for analysis only; see also Van Gelder, 1978:8, who placed this species in genus *Canis*, subgenus *Vulpes*. Reviewed by McGrew, 1979, Mamm. Species, 123:1-6. See Miller and Kellogg, 1955, Bull. U.S. Nat. Mus., 205:685. for discussion of type locality.

PROTECTED STATUS: U.S. ESA - Endangered as *V. m. mutica* subspecies only.

ISIS NUMBER: 5301412001015006001.

Vulpes pallida (Cretzschmar, 1826). In Ruppell, Atlas Reise Nordl. Afr., Saugeth., p. 33, pl. 11.

TYPE LOCALITY: Sudan, Kordofan.

DISTRIBUTION: Semiarid sahelian region of Africa from Senegal through Nigeria, Cameroun and Sudan to Somalia.

COMMENT: Placed in genus *Canis*, subgenus *Vulpes* by Van Gelder, 1978:8.

ISIS NUMBER: 5301412001015007001.

Vulpes rueppelli (Schinz, 1825). Cuvier's Thierreich, 4:508.

TYPE LOCALITY: Sudan, Dongola.

DISTRIBUTION: Arid areas of N. Africa from Morocco to Somalia; Egypt; Sinai; Arabia; Iran; parts of Pakistan and Afghanistan.

COMMENT: Placed in genus *Canis*, subgenus *Vulpes* by Van Gelder, 1978:8.

ISIS NUMBER: 5301412001015008001.

Vulpes velox (Say, 1823). In Long, Account of an Exped. from Pittsburgh to the Rocky Mtns., 1:487.

REVIEWED BY: H. J. Egoscue (HJE).

TYPE LOCALITY: U.S.A., Colorado, South Platte River.

DISTRIBUTION: Central North America from C. Alberta (Canada) to N. W. Texas and E. New Mexico (U.S.A.).

COMMENT: Placed in subgenus *Canis*, subgenus *Vulpes* by Van Gelder, 1978:1-10.

Distinct from *macrotis*; see Thornton and Creel, 1975, Texas J. Sci., 26:127-136; Rohwer and Kilgore, 1973, Syst. Zool., 22:157; but also see Hall, 1981:940.

Clutton-Brock, *et al.*, 1976, 29(3):117-199, combined *velox* and *macrotis* for analysis only. Reviewed by Egoscue, 1979, *Mamm. Species*, 122:1-5.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered as *V. v. hebes* subspecies only.

ISIS NUMBER: 5301412001015009001.

Vulpes vulpes (Linnaeus, 1758). *Syst. Nat.*, 10th ed., 1:40.

TYPE LOCALITY: Sweden, Uppsala.

DISTRIBUTION: Europe and continental Asia except the tundra; N. India and peninsular Indochina; Japan; Palearctic Africa; N. America as far south as Texas and New Mexico (U.S.A.), but absent in part of the Central Plains and the Arctic.

COMMENT: Includes *fulva*; see Hall, 1981:936. Placed in genus *Canis*, subgenus *Vulpes* by Van Gelder, 1978:8.

ISIS NUMBER: 5301412001015010000.

Vulpes zerda (Zimmermann, 1780). *Geogr. Gesch. Mensch. Vierf. Thiere*, 2:247.

REVIEWED BY: H. E. Evans (HEE).

TYPE LOCALITY: Sahara.

DISTRIBUTION: Morocco to Arabia.

COMMENT: : Placed in genus *Canis*, subgenus *Vulpes* by Van Gelder, 1978:8. *Vulpes* includes *Fennecus* which is often treated as a separate genus; see Clutton-Brock *et al.*, 1976, 29(3):117-199; Clutton-Brock and Corbet, 1979, *Bull. Zool. Nomencl.*, 36.

PROTECTED STATUS: CITES - Appendix III as *Fennecus zerda* (Tunisia).

ISIS NUMBER: 5301412001008001001 as *Fennecus zerda*.

Family Ursidae

REVIEWED BY: B. McGillivray (BM); P. Roben (PR); O. L. Rossolimo (OLR)(U.S.S.R.); S. Wang (SW)(China).

COMMENT: Ailuropodidae (*Ailurus* and *Ailuropoda*) was considered a separate family by Corbet and Hill, 1980:95; but see Chorn and Hoffmann, 1978, *Mamm. Species*, 110:1-6, who included *Ailuropoda* in the Ursidae. Thenius, 1979, *Z. Säugetierk.*, 44:286-305, placed *Ailuropoda* in the monotypic family Ailuropodidae, and *Ailurus* in the subfamily Ailurinae of family Procyonidae. Reviewed by Stains, 1967, in Anderson and Jones, p. 329-331; revised by Hendeby, 1980, *Ann. S. Afr. Mus.*, 81:1-109.

ISIS NUMBER: 5301412002000000000.

Ailuropoda Milne-Edwards, 1870. *Ann. Sci. Nat. Zool.*, ser. 5, 13(10):1.

COMMENT: Chorn and Hoffmann, 1978, *Mamm. Species*, 110:1-6; and Hendeby, 1980, *Ann. S. Afr. Mus.*, 81:1-109, discussed reasons for placing *Ailuropoda* in Ursidae.

ISIS NUMBER: 5301412002001000000.

Ailuropoda melanoleuca (David, 1869). *Nouv. Arch. Mus. Hist. Nat. Paris, Bull.*, 5:12-13.

REVIEWED BY: S. Wang (SW).

TYPE LOCALITY: China, Szechwan, Moupin.

DISTRIBUTION: Szechwan, Shensi, Kansu; perhaps Tsinghai, on E. edge of Tibetan plateau (China).

COMMENT: Regarded by Hendeby, 1980, as the only surviving species in the subfamily Agriotheriinae. Placed in family Ailuropodidae by Thenius, 1979, *Z. Säugetierk.*, 44:286-305. Reviewed by Chorn and Hoffmann, 1978, *Mamm. Species*, 110:1-6.

ISIS NUMBER: 5301412002001001001.

Helarctos Horsfield, 1825. *J. Zool. Lond.*, 2:221.

REVIEWED BY: S. Wang (SW).

COMMENT: Van Gelder, 1977:13, included *Helarctos* as a synonym of *Melursus*. *Helarctos* was considered a subgenus of *Ursus* by Hall, 1981:947, and a distinct genus by Corbet and Hill, 1980:94.

ISIS NUMBER: 5301412002002000000.

Helarctos malayanus (Raffles, 1821). *Trans. Linn. Soc. Lond.*, 13:254.

TYPE LOCALITY: Indonesia, Sumatra, Bencoolen.

DISTRIBUTION: Burma; Thailand; Vietnam; Sumatra; Borneo; N.E. India; Malaysia; Yunnan and Szechwan (China) (SW).

PROTECTED STATUS: CITES - Appendix I.

ISIS NUMBER: 5301412002002001001.

Melursus Meyer, 1793. Zool. Entdeck., p. 155.

COMMENT: See comment under *Helarctos*. *Melursus* was considered a subgenus of *Ursus* by Hall, 1981:947, and a distinct genus by Corbet and Hill, 1980:94.

ISIS NUMBER: 5301412002003000000.

Melursus ursinus (Shaw, 1791). Nat. Misc., 2 (unpaged) pl. 58.

TYPE LOCALITY: India, Bihar, Patna.

DISTRIBUTION: Sri Lanka; India, north to the Indian desert and to the foothills of the Himalayas.

ISIS NUMBER: 5301412002003001001.

Tremarctos Gervais, 1855. Hist. Nat. Mamm., 2:20.

REVIEWED BY: J. P. Jorgenson (JPJ).

ISIS NUMBER: 5301412002005000000.

Tremarctos ornatus (F. Cuvier, 1825). Hist. Nat. Mamm., 3(50):2, pl.

TYPE LOCALITY: "Chile, Cordillera de Chile."

DISTRIBUTION: Mountainous regions of W. Venezuela, Colombia, Ecuador, Peru, and W. Bolivia; perhaps Panama.

COMMENT: *T. ornatus* is not known from Chile; type locality probably east of Trujillo, Libertad, Peru; see Cabrera, 1958:242.

PROTECTED STATUS: CITES - Appendix I.

ISIS NUMBER: 5301412002005001001.

Ursus Linnaeus, 1758. Syst. Nat., 10th ed., 1:47.

COMMENT: Includes *Euarctos*, *Melanarctos*, *Mylarctos*, *Selenarctos*, *Thalarctos*, *Thalassarctus*, *Thalassiarctus*, *Myrmarctos*, *Ursarctos*, and *Vetularctos*; see Ellerman and Morrison-Scott, 1951:235; Stains, 1967, in Anderson and Jones, p. 331; Hall, 1981:947; Kurten and Anderson, 1980, Pleistocene mammals of North America, Columbia Univ. Press, New York, p. 183; but also see Corbet, 1978:165-166, and Hendey, 1980:98.

ISIS NUMBER: 5301412002006000000.

Ursus americanus Pallas, 1780. Spicil. Zool., 14:5.

TYPE LOCALITY: Eastern North America.

DISTRIBUTION: N. C. Alaska to Labrador and Newfoundland (Canada), south to C. California, N. Nevada (U.S.A.), N. Nayarit and S. Tamaulipas (Mexico), and Florida (U.S.A.).

COMMENT: Placed in subgenus *Euarctos* by Hall, 1981:947; and Thenius, 1979:293. Hendy, 1980:98, regarded *Euarctos* as a distinct genus.

ISIS NUMBER: 5301412002006002001.

Ursus arctos Linnaeus, 1758. Syst. Nat., 10th ed., 1:47.

TYPE LOCALITY: Sweden.

DISTRIBUTION: Formerly, N. W. Africa, all of Palearctic from W. Europe, Near and Middle East through N. Himalayas to W. and N. China and Chukotka (U.S.S.R.); Hokkaido (Japan). Western North America, north from N. Mexico.

COMMENT: Hall, 1981:951-958, listed 87 taxa (including 76 other species names) in the "*Ursus arctos* -group", which are here included in *arctos*; see Corbet and Hill, 1980:94; see also Couturier, 1954, L'Ours brun, *Ursus arctos* L., Grenoble.

PROTECTED STATUS: CITES - Appendix II (all North American subspecies).

CITES - Appendix I (Italian populations only).

CITES - Appendix I as *U. a. isabellinus* subspecies only.

CITES - Appendix I and U.S. ESA - Endangered as *U. a. nelsoni* subspecies only.

CITES - Appendix I and U.S. ESA - Endangered as *U. a. pruinosus* subspecies only.

U.S. ESA - Endangered as *U. a. arctos* (Italian populations only). U.S. ESA - Threatened as *U. a. horribilis* subspecies only.

ISIS NUMBER: 5301412002006001001.

Ursus maritimus Phipps, 1774. A Voyage Towards North Pole, p. 185.

TYPE LOCALITY: Norway, Spitzbergen Isls.

DISTRIBUTION: Circumpolar in the Arctic.

COMMENT: Placed in genus *Ursus*, subgenus *Thalarctos* by Gromov and Baranova,

1981:253, and in genus *Thalarctos* by Corbet, 1978:166. Reviewed by DeMaster and Stirling, 1981, *Mamm. Species*, 145:1-7.

PROTECTED STATUS: CITES - Appendix II as *U.* (= *Thalarctos*) *maritimus*.

ISIS NUMBER: 5301412002006003001 as *Ursus maritimus*.

Ursus thibetanus G. Cuvier, 1823. *Rech. Oss. Foss.*, 4:325.

TYPE LOCALITY: India, Assam, Sylhet.

DISTRIBUTION: Afghanistan; Pakistan; N. India; China; S.E. Primorsky Krai (U.S.S.R.); Korea; Japan; Indochina.

COMMENT: Placed in genus *Ursus*, subgenus *Selenarctos* by Gromov and Baranova, 1981:249; and in subgenus *Euarctos* by Thenius, 1979:293. Stains, 1967, in Anderson and Jones, p. 331; Corbet, 1978:165; and Hendey, 1980:98, considered it a distinct genus, *Selenarctos*.

PROTECTED STATUS: CITES - Appendix I as *Selenarctos thibetanus*.

ISIS NUMBER: 5301412002004001001.

Family Procyonidae

REVIEWED BY: S. Kortlucke (SK); J. Ramirez-Pulido (JRP) (Mexico).

ISIS NUMBER: 5301412003000000000.

Ailurus F. Cuvier, 1825. *Hist. Nat. Mamm.*, 5(50):3.

COMMENT: Immunological evidence suggests that *Ailurus* is more closely related to ursids than to procyonids; see Todd and Pressmann, 1968, *Carniv. Genet. Newsl.*, 5:105-108, and Sarich, 1976, *Trans. Zool. Soc. Lond.*, 33:165-171. Corbet and Hill, 1980:95, placed this monotypic genus in Ailuropodidae, but see comment under *fulgens*, and under Ursidae.

ISIS NUMBER: 5301412003001000000.

Ailurus fulgens F. Cuvier, 1825. *Hist. Nat. Mamm.*, 5(50):3.

TYPE LOCALITY: India, S. E. Himalayas.

DISTRIBUTION: Yunnan and Szechwan (China); N. Burma; Sikkim; Nepal.

COMMENT: Although this species is usually included in the Procyonidae because of its ringed tail, facial markings, and superficial resemblance of teeth and skull to *Procyon*, this species has no shared derived morphological characters that would place it here (SK). Thenius, 1979, *Z. Saugetierk.*, 44:386-305, and Gromov and Baranova, 1981:255, placed it in the monotypic subfamily Ailurinae.

PROTECTED STATUS: CITES - Appendix II.

ISIS NUMBER: 5301412003001001001.

Bassaricyon J. A. Allen, 1876. *Proc. Acad. Nat. Sci. Phila.*, 28:20, pl. 1; text 1877, 267-268, pl. 2.

COMMENT: The several named forms of *Bassaricyon* are probably conspecific; see Stains, 1967, in Anderson and Jones, p. 335. This genus is being revised by SK.

ISIS NUMBER: 5301412003002000000.

Bassaricyon alleni Thomas, 1880. *Proc. Zool. Soc. Lond.*, 1880:397.

TYPE LOCALITY: Ecuador, Napo-Pastaza Prov., Sarayacu, near the Rio Bobonazo.

DISTRIBUTION: Ecuador east of the Andes, and Peru to Cuzco Prov.; Bolivia; possibly into Venezuela.

COMMENT: See comment under *Bassaricyon*.

ISIS NUMBER: 5301412003002001001.

Bassaricyon beddardi Pocock, 1921. *Ann. Mag. Nat. Hist.*, ser. 9, 7:229.

TYPE LOCALITY: Guyana, Lower Essequibo, Bartica.

DISTRIBUTION: Guyana, and possibly adjacent Venezuela and Brasil.

COMMENT: A renaming of *alleni* Sclater, 1895, *Proc. Zool. Soc. Lond.*, 1895:521 (not Thomas, 1880). Cabrera, 1958:253, erroneously listed this species under the genus *Bassaricyon* as *Bassariscus beddardi* (SK).

ISIS NUMBER: 5301412003002002001.

Bassaricyon gabbi J. A. Allen, 1876. *Proc. Acad. Nat. Sci. Phila.*, 28:21.

TYPE LOCALITY: Costa Rica, Limon, Talamanca.

DISTRIBUTION: C. Nicaragua; Costa Rica; Panama; W. Colombia; W. Ecuador.

COMMENT: Includes *medius*, *richardsoni*, and *siccatus*; see Cabrera, 1958:253–254, and Hall, 1981:979–980.

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

ISIS NUMBER: 5301412003002003001.

Bassaricyon lasius Harris, 1932. Occas. Pap. Mus. Zool. Univ. Michigan, 248:3.

TYPE LOCALITY: Costa Rica, Cartago, Estrella de Cartago, near source of Rio Estrella, 6 or 8 mi. (10 to 13 km) S. Cartago, about 4500 ft. (1372 m).

DISTRIBUTION: Known only from the type locality.

Bassaricyon pauli Enders, 1936. Proc. Acad. Nat. Sci. Phila., 88:365.

TYPE LOCALITY: Panama, Chiriqui, Cerro Pando, between Rio Chiriqui Viejo and Rio Colorado (about 10 mi. (16 km) from El Volcan.)

DISTRIBUTION: Known only from the type locality.

Bassariscus Coues, 1887. Science, 9:516.

COMMENT: Includes *Jentinkia*; see Corbet and Hill, 1980:94; Hall, 1981:961. This genus is being revised by SK.

ISIS NUMBER: 5301412003003000000.

Bassariscus astutus (Lichtenstein, 1830). Abh. Konigl. Akad. Wiss., Berlin, for 1827, p. 119.

TYPE LOCALITY: Mexico, near city of Mexico.

DISTRIBUTION: S. W. Oregon, N. Nevada, Utah, S. W. Wyoming and W. Colorado, south through California, Arizona, New Mexico and Texas (U.S.A.), to the Isthmus of Tehuantepec (Mexico); Tiburon Isl. and several other islands in the Gulf of California.

COMMENT: Includes *albipes*, *raptor* and *saxicola*; see Hall, 1981:962–965. Records from E. Colorado, Kansas, Ohio, Louisiana, and South Carolina are probably not indicative of the present range (SK).

ISIS NUMBER: 5301412003003001001.

Bassariscus sumichrasti (Saussure, 1860). Rev. Mag. Zool. Paris, ser. 2, 12:7.

TYPE LOCALITY: Mexico, Veracruz, Mirador.

DISTRIBUTION: Guerrero and S. Veracruz (Mexico) to W. Panama.

COMMENT: Includes *monticola* and *variabilis*; see Hall, 1981:965.

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

ISIS NUMBER: 5301412003003002001.

Nasua Storr, 1780. Prodr. Meth. Mamm., p. 35, tabl. A.

ISIS NUMBER: 5301412003004000000.

Nasua nasua (Linnaeus, 1766). Syst. Nat., 12th ed., 1:64.

TYPE LOCALITY: Mexico, Veracruz, Isthmus of Tehuantepec, Achotal.

DISTRIBUTION: S. Arizona and S. W. New Mexico, south through Mexico (except Baja California), Central America, and South America (except Chile) to Argentina.

COMMENT: Includes *narica*; see Handley, 1966, in Wenzel and Tipton, eds.,

Ectoparasites of Panama, p. 789. Includes *aricana*, *boliviensis*, *candace*, *cinerascens*, *dorsalis*, *manium*, *montana*, *quichua*, *solitaria*, and *vittata*; see Cabrera, 1958:244–249, and Hall, 1981:975–976.

PROTECTED STATUS: CITES - Appendix III as *N. n. solitaria* subspecies only (Uruguay).

ISIS NUMBER: 5301412003004002001 as *N. nasua*.

5301412003004001001 as *N. narica*.

Nasua nelsoni Merriam, 1901. Proc. Biol. Soc. Wash., 14:100.

TYPE LOCALITY: Mexico, Quintana Roo, Cozumel Isl.

DISTRIBUTION: Known only from the type locality.

COMMENT: Includes *thersites*; see Hall, 1981:976.

ISIS NUMBER: 5301412003004003001.

Nasuella Hollister, 1915. Proc. U.S. Nat. Mus., 49:118.

ISIS NUMBER: 5301412003005000000.

Nasuella olivacea (Gray, 1865). Proc. Zool. Soc. Lond., 1864:703.

TYPE LOCALITY: Colombia, Bogota. Interpreted to be the mountains near the capital.

DISTRIBUTION: Andes of Colombia, W. Venezuela, and Ecuador.

COMMENT: *Nasua olivacea*, Gray, 1843, is a *nomen nudum*. Includes *olivacea*, *meridensis*, and *quitensis*; see Cabrera, 1958:249, and also for discussion of type locality.
 ISIS NUMBER: 5301412003005001001.

Potos E. Geoffroy and G. Cuvier, 1795. Mag. Encyclop., 2:187.

COMMENT: Hernandez-Camacho, 1977, *Caldasia*, 11:148, resurrected Bonaparte's 1838, family Cercoleptidae for this taxon, as a provisional arrangement, but Hall, 1981:977, and SK consider it a procyonid.
 ISIS NUMBER: 5301412003006000000.

Potos flavus (Schreber, 1774). Säugethiere, 1:42.

TYPE LOCALITY: Guyana.

DISTRIBUTION: S. Tamaulipas and Guerrero (possibly Michoacan) (Mexico) to the Mato Grosso of Brasil.

COMMENT: Includes *chapadensis*, *megalotus*, *meridensis*, *modestus*, *nocturnus* and *prehensilis*; see Cabrera, 1958:249-252, and Hall, 1981:977-978. A revision of South American forms is in preparation by R. M. Wetzel. Central American forms were reviewed by Kortlücke, 1972, *Occas. Pap. Mus. Nat. Hist. Univ. Kansas*, 17:1-36; also see Cabrera, 1958:250, and Husson, 1978:288-289.

ISIS NUMBER: 5301412003006001001.

Procyon Storr, 1780. Prodr. Meth. Mamm., p. 35.

COMMENT: Revised by Goldman, 1950, *N. Am. Fauna*, 60:1-153.

ISIS NUMBER: 5301412003007000000.

Procyon cancrivorus (F. Cuvier, 1798). Tabl. Elem. Hist. Nat. Anim., p. 113.

TYPE LOCALITY: French Guiana, Cayenne.

DISTRIBUTION: E. Costa Rica, Panama, and South America to N. E. Argentina.

COMMENT: Includes *aequatorialis*, *nigripes*, and *proteus*; see Cabrera, 1958:243-244, and Hall, 1981:974.

ISIS NUMBER: 5301412003007001001.

Procyon gloveralleni Nelson and Goldman, 1930. *J. Mammal.*, 11:453.

TYPE LOCALITY: Barbados (Lesser Antilles).

DISTRIBUTION: Known only from the type locality.

COMMENT: See Lotze and Anderson, 1979, *Mamm. Species*, 119:1-8, who stated that *gloveralleni*, *maynardi*, and *minor*, may be conspecific with *lotor*. May be extinct; see Hall, 1981:973.

Procyon insularis Merriam, 1898. *Proc. Biol. Soc. Wash.*, 12:17.

TYPE LOCALITY: Mexico, Tres Marias Isls., Maria Madre Isl.

DISTRIBUTION: Maria Madre Isl. (*P. i. insularis*) and Maria Magdalena Isl. (*P. i. vicinus*).

ISIS NUMBER: 5301412003007002001.

Procyon lotor (Linnaeus, 1758). *Syst. Nat.*, 10th ed., 1:48.

TYPE LOCALITY: U.S.A., Pennsylvania.

DISTRIBUTION: S. Canada throughout U.S.A. (except parts of Rocky Mtns.), Mexico, and Central America to C. Panama.

COMMENT: Includes *hernandezii*, *hudsonicus*, *nivea*, *pallidus*, *psora*, and *pumilus*; see Hall, 1981:967-972. Reviewed by Lotze and Anderson, 1979, *Mamm. Species*, 119:1-8.

ISIS NUMBER: 5301412003007003001.

Procyon maynardi Bangs, 1898. *Proc. Biol. Soc. Wash.*, 12:92.

TYPE LOCALITY: Bahamas, New Providence Isl.

DISTRIBUTION: Known only from the type locality.

COMMENT: May be conspecific with *lotor*; see Lotze and Anderson, 1979, *Mamm. Species*, 119:1-8; but also see Hall, 1981:973.

ISIS NUMBER: 5301412003007004001.

Procyon minor Miller, 1911. *Proc. Biol. Soc. Wash.*, 24:4.

TYPE LOCALITY: Guadeloupe (Lesser Antilles), Pointe-a-Pitre (France).

DISTRIBUTION: Guadeloupe Isl. (Lesser Antilles).

COMMENT: May be conspecific with *lotor*; see Lotze and Anderson, 1979, Mamm. Species, 119:1-8; but also see Hall, 1981:973.
 ISIS NUMBER: 5301412003007005001.

Procyon pygmaeus Merriam, 1901. Proc. Biol. Soc. Wash., 14:101.

TYPE LOCALITY: Mexico, Quintana Roo, Cozumel Isl.
 DISTRIBUTION: Known only from the type locality.
 ISIS NUMBER: 5301412003007006001.

Family Mustelidae

REVIEWED BY: T. Holmes (TH); J. Ramirez-Pulido (JRP)(Mexico); P. Roben (PR); O. L. Rossolimo (OLR)(U.S.S.R.); H. J. Stains (HJS).
 ISIS NUMBER: 5301412004000000000.

Aonyx Lesson, 1827. Manuel Mamm., p. 157.

REVIEWED BY: Nicole Duplaix (ND).

COMMENT: Subfamily Lutrinae. Includes *Amblonyx* and *Paraonyx*; see Lekagul and McNeely, 1977:559, Ellerman and Morrison-Scott, 1951:278, and Coetzee, 1977, Part 8:9. Also see Medway, 1977:133, who considered *Amblonyx* a distinct genus.

PROTECTED STATUS: CITES - Appendix II as Lutrinae.
 ISIS NUMBER: 5301412004021000000.

Aonyx capensis (Schinz, 1821). Das Tierreich, 1:211-214.

TYPE LOCALITY: South Africa, probably Port Elizabeth.
 DISTRIBUTION: Africa from Cape of Good Hope, north to Ethiopia; west to Senegal.
 PROTECTED STATUS: CITES - Appendix II as Lutrinae.
 ISIS NUMBER: 5301412004021001001.

Aonyx cinerea (Illiger, 1815). Abh. Preuss. Akad. Wiss., 1815:99.

TYPE LOCALITY: Indonesia, W. Java, Batavia.
 DISTRIBUTION: India; Burma; S. China and Hainan Isl.; Taiwan; S. E. Asia to Sumatra; Java; Borneo; Palawan Isl. (Philippines).

COMMENT: Subgenus *Amblonyx*; Ellerman and Morrison-Scott, 1951:278, treated *Amblonyx* as a subgenus of *Aonyx*, as did Corbet and Hill, 1980:99, and Lekagul and McNeely, 1977:559; but see Medway, 1977:133, who considered *Amblonyx* a distinct genus; see also Davis, 1978, in Otters, IUCN Publ., N. S., 1.

PROTECTED STATUS: CITES - Appendix II as Lutrinae.
 ISIS NUMBER: 5301412004021002001.

Aonyx congica Lonnberg, 1910. Ark. Zool., 7(9):1-8.

TYPE LOCALITY: Zaire, "Lower Congo."

DISTRIBUTION: Zaire, Congo Basin to Uganda and Niger.

COMMENT: Includes *philippsi* and *microdon*; subgenus *Paraonyx*; see Coetzee, 1977, Part 8:9.

PROTECTED STATUS: CITES - Appendix I as *A. microdon*. U.S. ESA - Endangered as *A. (=Paraonyx) congica* (= *microdon*).

ISIS NUMBER: 5301412004021003001 as *A. congica*.
 5301412004021004001 as *A. microdon*.
 5301412004021005001 as *A. philippsi*.

Arctonyx F. Cuvier, 1825. Hist. Nat. Mamm., 3(51), pl. and 2 pp. text.

COMMENT: Subfamily Melinae.

ISIS NUMBER: 5301412004012000000.

Arctonyx collaris F. Cuvier, 1825. Hist. Nat. Mamm., 3(51), pl. and 2 pp. text.

TYPE LOCALITY: India, Bhutan Duars, E. Himalayas.

DISTRIBUTION: Widespread in China; ranges from Assam (India) and Burma to Indochina, Thailand, Sumatra, and probably Perak in Malaya.

COMMENT: Reviewed by Long, 1978, Rep. Fauna Flora Wisc., 14:1-6.

ISIS NUMBER: 5301412004012001001.

Conepatus Gray, 1837. Charlesworth's Mag. Nat. Hist., 1:581.

COMMENT: Subfamily Mephitinae.

ISIS NUMBER: 5301412004018000000.

Conepatus chinga (Molina, 1782). Sagg. Stor. Nat. Chile, p. 288.

TYPE LOCALITY: Chile, near Valparaiso.

DISTRIBUTION: Chile; Peru; N. Argentina; Bolivia; Uruguay; S. Brazil.

COMMENT: Includes *rex*; see Kipp, 1965, Z. Säugetierk., 30:193-232; but also see Corbet and Hill, 1980:98, who listed *rex* as a distinct species.

ISIS NUMBER: 5301412004018001001.

Conepatus humboldtii Gray, 1837. Mag. Nat. Hist., 1:581.

TYPE LOCALITY: Chile, Straits of Magellan.

DISTRIBUTION: N. E. Argentina and Paraguay south to the Straits of Magellan.

COMMENT: Includes *castaneus*; see Kipp, 1965, Z. Säugetierk., 30:193-232; but also see Corbet and Hill, 1980:98, who list *castaneus* as a distinct species.

PROTECTED STATUS: CITES - Appendix II as *C. humboldti* (sic).

ISIS NUMBER: 5301412004018002001.

Conepatus leuconotus (Lichtenstein, 1832). Darst. Säugeth., pl. 44. fig. 1.

TYPE LOCALITY: Mexico, Veracruz, Rio Alvarado.

DISTRIBUTION: S. Gulf coast of Texas (U.S.A.), south along coast to Veracruz (Mexico).

COMMENT: May be only subspecifically distinct from *mesoleucus*; see Hall, 1981:1025.

ISIS NUMBER: 5301412004018003001.

Conepatus mesoleucus (Lichtenstein, 1832). Darst. Säugeth., pl. 44. fig. 2.

TYPE LOCALITY: Mexico, Hidalgo, near El Chico.

DISTRIBUTION: Arizona, Colorado, Texas (U.S.A.), south to Nicaragua.

COMMENT: May be conspecific with *leuconotus*; see Hall, 1981:1025.

ISIS NUMBER: 5301412004018004001.

Conepatus semistriatus (Boddaert, 1784). Elench. Anim., p. 84.

TYPE LOCALITY: Colombia.

DISTRIBUTION: Veracruz, Tabasco, and Yucatan (Mexico) to Peru and E. Brazil.

ISIS NUMBER: 5301412004018005001.

Eira H. Smith, 1842. In The Nat. Libr., Jardine, ed., 35:201.

REVIEWED BY: A. I. Roest (AIR).

COMMENT: *Tayra* Oken, 1816, is invalid; *Galera* Gray, 1843, is preoccupied by *Galera* Browne, 1789; see Stains, 1967, in Anderson and Jones, p. 337. Subfamily Mustelinae.

ISIS NUMBER: 5301412004001000000.

Eira barbara (Linnaeus, 1758). Syst. Nat., 10th ed., 1:46.

TYPE LOCALITY: Panama, Veraguas, Calovevora.

DISTRIBUTION: Sinaloa and Tamaulipas (Mexico), south to Argentina.

ISIS NUMBER: 5301412004001001001.

Enhydra Fleming, 1822. Philos. Zool., 2:187.

REVIEWED BY: Nicole Duplax (ND); T. R. Loughlin (TRL); A. I. Roest (AIR).

COMMENT: Subfamily Lutrinae.

PROTECTED STATUS: CITES - Appendix II as Lutrinae.

ISIS NUMBER: 5301412004022000000.

Enhydra lutris (Linnaeus, 1758). Syst. Nat., 10th ed., 1:45.

TYPE LOCALITY: U.S.S.R., Kamchatka, Commander Isls.

DISTRIBUTION: Formerly, coastal Hokkaido (Japan); Sakhalin Isl., Kurile Isls.,

Commander Isls., Kamchatka (U.S.S.R.), Aleutian Isls., and S. Alaska (U.S.A.) to Baja California (Mexico).

COMMENT: Revised by Roest, 1973, Los. Ang. Cty. Mus. Contrib. Sci., 252:1-17.

Reviewed by Davis and Lidicker, 1975, Proc. Calif. Acad. Sci., 4:429-437; and Estes, 1980, Mamm. Species, 133:1-8.

PROTECTED STATUS: CITES - Appendix II as Lutrinae.

CITES - Appendix I and U.S. ESA - Threatened as *E. l. nereis* subspecies only.

ISIS NUMBER: 5301412004022001001.

Galictis Bell, 1826. Zool. J., 2:552.

REVIEWED BY: A. I. Roest (AIR).

COMMENT: *Grison* Oken, 1816, is invalid; includes *Grisonella*; see Stains, 1967, in Anderson and Jones, p. 337. Subfamily Mustelinae.

ISIS NUMBER: 5301412004002000000.

Galictis cuja (Molina, 1782). Sagg. Stor. Nat. Chile, p. 291.

TYPE LOCALITY: Brazil, Minas Gerais, Sao Francisco dos Campos, 1580 m.

DISTRIBUTION: Peru to E. Brazil, south to S. Chile and Argentina.

COMMENT: Subgenus *Grisonella*; see Stains, 1967, in Anderson and Jones, p. 337.

ISIS NUMBER: 5301412004002001001.

Galictis vittata (Schreber, 1776). Säugethiere, 3:418.

TYPE LOCALITY: Surinam.

DISTRIBUTION: San Luis Potosi and Veracruz (Mexico) to Peru and S. Brazil, at lower elevations.

COMMENT: Includes *allamandi*; see Krumbiegel, 1942, Zool. Anz., 139:105, and Hall, 1981:1006.

PROTECTED STATUS: CITES - Appendix III as *G. allamandi* only (Costa Rica).

ISIS NUMBER: 5301412004002002001.

Gulo Pallas, 1780. Spicil. Zool., 14:25.

REVIEWED BY: E. Anderson (EA); A. I. Roest (AIR).

COMMENT: Corbet, 1978:174, attributed *Gulo* to Storr, 1780, Prodr. Meth. Mamm., p. 34. Ellerman and Morrison-Scott, 1951:250, dated *Gulo* from Frisch, 1775, which has been rejected by the ICZN, Opinion 258, 1954. Subfamily Mustelinae.

ISIS NUMBER: 5301412004003000000.

Gulo gulo (Linnaeus, 1758). Syst. Nat., 10th ed., 1:45.

TYPE LOCALITY: Sweden, Lapland.

DISTRIBUTION: Holarctic taiga and S. tundra, south to 50° N. (Eurasia) and 37° N. (North America).

COMMENT: Includes *luscus*; see Kurten and Rausch, 1959, Acta Arct., 11:1-44; but also see Hall, 1981:1007.

ISIS NUMBER: 5301412004003001001.

Ictonyx Kaup, 1835. Das Thierreich, 1:352.

REVIEWED BY: A. I. Roest (AIR).

COMMENT: *Zorilla* Oken, 1816, is invalid; see Stains, 1967, in Anderson and Jones, p. 337. Subfamily Mustelinae.

ISIS NUMBER: 5301412004004000000.

Ictonyx striatus (Perry, 1810). Arcana Mus. Nat. Hist., Signature YT, Fig. 41.

TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.

DISTRIBUTION: Senegal to S. E. Egypt and Ethiopia, south to South Africa.

ISIS NUMBER: 5301412004004001001.

Lutra Brunnich, 1771. Zool. Fundamenta, p. 34, 42.

REVIEWED BY: N. Duplaix (ND); A. I. Roest (AIR).

COMMENT: Subfamily Lutrinae. Corbet, 1978:176, dated *Lutra* from Brisson, 1762, Regn. Anim., 2nd ed., p. 201, which was ruled an unavailable work; see Hemming, 1955, Bull. ICZN, 11(6):197. Includes *Lutrogale* (see Corbet, 1978:176; Hall, 1981:1029), and *Hydrictis* (see Ansell, 1978:36). Van Zyll de Jong, 1972, R. Ont. Mus. Life Sci. Contrib., 80:1-104, referred New World otters to *Lontra*; see Gray, 1843, Ann. Mag. Nat. Hist., 11:118; but also see revision by Sokolov, 1973, Byull. Mosk. Ova. Ispyt. Prir. Otd. Biol., 78:45-52, who regarded *Lontra* as a subgenus of *Lutra*, as did Hall, 1981:1028.

PROTECTED STATUS: CITES - Appendix II as Lutrinae.

ISIS NUMBER: 5301412004024000000 as *Lutra*.

5301412004023000000 as *Lontra*.

- Lutra canadensis* (Schreber, 1776). Saugethiere, pl. 126b.
 TYPE LOCALITY: Eastern Canada.
 DISTRIBUTION: North America south to Arizona, Texas, and Florida (U.S.A.).
 COMMENT: Includes *mira*; see Van Zyll de Jong, 1972, Life Sci. Contrib. R. Ont. Mus., 80:1-104.
 PROTECTED STATUS: CITES - Appendix II as Lutrinae.
 ISIS NUMBER: 5301412004023001001 as *Lontra canadensis*.
- Lutra felina* (Molina, 1782). Sagg. Stor. Nat. Chile, p. 284.
 TYPE LOCALITY: Chile.
 DISTRIBUTION: West coast of South America from N. Peru to Straits of Magellan.
 PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301412004023002001 as *Lontra felina*.
- Lutra longicaudis* (Olfers, 1818). In Eschwege, Neue Bibl. Reisenb., 15(2):233.
 TYPE LOCALITY: Brazil.
 DISTRIBUTION: Mexico, Central America, W. South America south to Peru, E. South America south to Uruguay.
 COMMENT: Includes *annectens*, *enudris*, *incarum*, and *platensis*; see Van Zyll de Jong, 1972, Life Sci. Contrib. R. Ont. Mus., 80:1-104; Genoways and Jones, 1975, Occas. Pap. Mus. Texas Tech Univ., 26:1-22.
 PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered as *L. longicaudis*.
 U.S. ESA - Endangered as *L. platensis*.
 ISIS NUMBER: 5301412004023003001 as *Lontra longicaudis*.
- Lutra lutra* (Linnaeus, 1758). Syst. Nat., 10th ed., 1:45.
 TYPE LOCALITY: Sweden, Uppsala.
 DISTRIBUTION: Eurasia (excl. tundra and desert); British and Japanese Isls.; N. W. Africa; S. India; Sri Lanka; Taiwan; Vietnam; Sumatra; Java.
 PROTECTED STATUS: CITES - Appendix I.
 ISIS NUMBER: 5301412004024001001.
- Lutra maculicollis* Lichtenstein, 1835. Arch. Naturgesch., 1:89.
 TYPE LOCALITY: Namibia, Orange River, Bambusbergen.
 DISTRIBUTION: Liberia to Ethiopia south to South Africa, except east coast and S. W. African deserts.
 COMMENT: Davis, 1978, in Otters, IUCN Publ., N.S., 1:14-33, placed this species in genus *Hydricteis*, as does ND; but see Ansell, 1978:36, who considered *Hydricteis* a subgenus.
 PROTECTED STATUS: CITES - Appendix II as Lutrinae.
 ISIS NUMBER: 5301412004024002001.
- Lutra perspicillata* I. Geoffroy, 1826. Dict. Class. Hist. Nat., 9:519.
 TYPE LOCALITY: Indonesia, Sumatra.
 DISTRIBUTION: Iraq to Indochina, Malaya, and Sumatra. Possibly Borneo.
 COMMENT: Davis, 1978, in Otters, IUCN Publ., N.S., 1:14-33, placed this species in genus *Lutrogale*, as does ND; but see Corbet, 1978:176, and Hall, 1981:1029.
 PROTECTED STATUS: CITES - Appendix II
 ISIS NUMBER: 5301412004024003001.
- Lutra provocax* Thomas, 1908. Ann. Mag. Nat. Hist., ser. 1:391.
 TYPE LOCALITY: Argentina, S. of Lake Nahuel Huapi.
 DISTRIBUTION: Patagonia (C. and S. Chile; W. Argentina).
 PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301412004023004001 as *Lontra provocax*.
- Lutra sumatrana* (Gray, 1865). Proc. Zool. Soc. Lond., 1865:123.
 TYPE LOCALITY: Indonesia, Sumatra.
 DISTRIBUTION: Thailand; Malaya; S. Kampuchea; S. Vietnam; Sumatra; Borneo.
 PROTECTED STATUS: CITES - Appendix II as Lutrinae.
 ISIS NUMBER: 5301412004024004001.

Lyncodon Gervais, 1845. *In* d'Orbigny, *Dict. Univ. Hist. Nat.*, 4:685.

REVIEWED BY: A. I. Roest (AIR).

COMMENT: Subfamily Mustelinae.

ISIS NUMBER: 5301412004005000000.

Lyncodon patagonicus (Blainville, 1842). *Osteogr. Mamm.*, ser. 2, 10:1.

TYPE LOCALITY: Argentina, Patagonia, Rio Negro.

DISTRIBUTION: Argentina and S. Chile.

ISIS NUMBER: 5301412004005001001.

Martes Pinel, 1792. *Actes Soc. Hist. Nat. Paris*, 1:55.

REVIEWED BY: E. Anderson (EA); R. A. Powell (RAP); A. I. Roest (AIR).

COMMENT: Subfamily Mustelinae. Includes *Charronia* and *Lamprogale*; see Ellerman and Morrison-Scott, 1951:244.

ISIS NUMBER: 5301412004006000000.

Martes americana (Turton, 1806). *A Gen. Syst. of Nat.*, 1:60.

TYPE LOCALITY: E. North America.

DISTRIBUTION: Alaska and Canada south to N. California, south in the Sierra Nevada and Rocky Mtns. to 35° N.

COMMENT: May be conspecific with *martes*, *melampus*, and *zibellina*; see Anderson, 1970, *Acta Zool. Fenn.*, 130:132; Hagmeier, 1961, *Can. Field Nat.*, 75:122-138; and Corbet, 1978:172; but see also Hall, 1981:981; Gromov and Baranova, 1981:256-258.

ISIS NUMBER: 5301412004006001001.

Martes flavigula (Boddaert, 1785). *Elench. Anim.*, 1:88.

TYPE LOCALITY: Nepal.

DISTRIBUTION: Primorsky Krai (U.S.S.R.); Korea; China, west along Himalayan foothills to N. W. Pakistan; isolates in S. India, S. E. Asia, Taiwan, Sumatra, Java, and Borneo.

COMMENT: Includes *gwatkinsi*; see Corbet, 1978:174; but also see Anderson, 1970, *Acta Zool. Fenn.*, 130:108, who considered *gwatkinsi* a distinct species.

PROTECTED STATUS: U.S. ESA - Endangered as *M. f. chrysospila* subspecies only.

ISIS NUMBER: 5301412004006002001 as *M. flavigula*.
5301412004006004001 as *M. gwatkinsi*.

Martes foina (Erxleben, 1777). *Regn. Anim.*, 1:458.

TYPE LOCALITY: Germany.

DISTRIBUTION: S. and C. Europe, through Caucasus, to the Altai (U.S.S.R., Mongolia) and Himalayas; adjacent China; islands of Corfu, Crete and Rhodes.

ISIS NUMBER: 5301412004006003001.

Martes martes (Linnaeus, 1758). *Syst. Nat.*, 10th ed., 1:46.

TYPE LOCALITY: Sweden, Uppsala.

DISTRIBUTION: Britain; N. and W. Europe to W. Siberia, south to Sicily, Sardinia, Corsica, the Elburz, and the Caucasus Mts.

COMMENT: May be conspecific with *americana*, *melampus*, and *zibellina*; see Anderson, 1970, *Acta Zool. Fenn.*, 130:132; Hagmeier, 1961, *Can. Field Nat.*, 75:122-138; and Corbet, 1978:172; but see also Hall, 1981:981; Gromov and Baranova, 1981:256-258.

ISIS NUMBER: 5301412004006005001.

Martes melampus (Wagner, 1841). *Schreber's Säugethiere.*, Suppl., 2:229.

TYPE LOCALITY: Japan.

DISTRIBUTION: Honshu, Kyushu, Shikoku, Tsushima, intro. on Sado Isl. (Japan); Korea; perhaps parts of China.

COMMENT: May be conspecific with *americana*, *martes*, and *zibellina*; see Anderson, 1970, *Acta Zool. Fenn.*, 130:132; Hagmeier, 1961, *Can. Field Nat.*, 75:122-138; and Corbet, 1978:172; but see also Hall, 1981:981; Gromov and Baranova, 1981:256-258. Heptner and Naumov, eds., 1967, [Mammals of the Soviet Union], 2(1) p. 507, included Japanese and Korean *melampus* in *zibellina*; but also see Corbet, 1978:173, 174.

ISIS NUMBER: 5301412004006006001.

- Martes pennanti* (Erxleben, 1777). Regn. Anim., 1:470.
 TYPE LOCALITY: E. Canada, Quebec.
 DISTRIBUTION: Yukon to E. Quebec (Canada), N. W. U.S.A., Sierra Nevadas, N. Rocky Mtns., Great Lakes Region, New England, to N. Carolina (U.S.A.).
 COMMENT: Reviewed by Powell, 1981, Mamm. Species, 156:1-6.
 ISIS NUMBER: 5301412004006007001.
- Martes zibellina* (Linnaeus, 1758). Syst. Nat., 10th ed., 1:46.
 TYPE LOCALITY: U.S.S.R., Siberia, Tomsk Dist., N. of Tobolsk.
 DISTRIBUTION: Ural Mtns. to Siberia, Kamchatka, Sakhalin (U.S.S.R.); Mongolia; Sinkiang and N. E. China; N. Korea; Hokkaido (Japan); originally west to N. Scandanavia and W. Poland.
 COMMENT: May be conspecific with *americana*, *martes*, and *melampus*; see Anderson, 1970, Acta Zool. Fenn., 130:132; Hagmeier, 1961, Can. Field Nat., 75:122-138; and Corbet, 1978:172; but see also Hall, 1981:981; Gromov and Baranova, 1981:256-258. Revised by Pavlinin, 1966, Der Zobel *Martes zibellina* L., Wittenberg. See also comments under *melampus*.
 ISIS NUMBER: 5301412004006008001.
- Meles Boddaert*, 1785. Elench. Anim., 1:45.
 REVIEWED BY: A. I. Roest (AIR).
 COMMENT: Subfamily Melinae.
 ISIS NUMBER: 5301412004013000000.
- Meles meles* (Linnaeus, 1758). Syst. Nat., 10th ed., 1:48.
 TYPE LOCALITY: Sweden, Uppsala.
 DISTRIBUTION: Scandinavia to S. Siberia, south to Israel; China; Korea; and Japan, and on Ireland, Britain, Balearic Isls., Crete, and Rhodes.
 COMMENT: Includes *amurensis*; see Corbet, 1978:175.
 ISIS NUMBER: 5301412004013001001.
- Mellivora Storr*, 1780. Prodr. Meth. Mamm., p. 34, tabl. A.
 REVIEWED BY: A. I. Roest (AIR).
 COMMENT: Subfamily Mellivorinae.
 ISIS NUMBER: 5301412004011000000.
- Mellivora capensis* (Schreber, 1776). Säugethiere, pl. 125, text 1777, 3:450.
 TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.
 DISTRIBUTION: Savanna and steppe from Nepal, E. India, and Turkmenia (U.S.S.R.) west to the Mediterranean, south to South Africa.
 PROTECTED STATUS: CITES - Appendix III (Ghana and Botswana).
 ISIS NUMBER: 5301412004011001001.
- Melogale I.* Geoffroy, 1831. Zool. Voy. de Belanger Indes Orient., 129, Mamm., pl. 5, 1834.
 COMMENT: Subfamily Melinae. Includes *helictis*; see Long, 1978, Rep. Fauna Flora Wisc., 14:1-6.
 ISIS NUMBER: 5301412004014000000.
- Melogale everetti* (Thomas, 1895). Ann. Mag. Nat. Hist., ser. 6, 15:331-332.
 TYPE LOCALITY: Malaysia, Sabah (N. Borneo), Kinabalu, 4000 ft. (1219 m).
 DISTRIBUTION: Borneo.
 COMMENT: Although resembling *M. personata orientalis*, this species is regarded as distinct by Long, 1978, Rep. Fauna Flora Wisc., 14:1-6, but as a subspecies of *orientalis* by Medway, 1977:132.
- Melogale moschata* (Gray, 1831). Proc. Zool. Soc. Lond., 1831:94.
 TYPE LOCALITY: China, Canton.
 DISTRIBUTION: Naga Hills near Manipur, Assam (India), to Taiwan; Hainan Isl., C., and S.E. China (SW), N. Laos, and N. Vietnam.
 COMMENT: Includes *sorella*, which may be a distinct species; see Long, 1978, Rep. Fauna Flora Wisc., 14:1-6.
 ISIS NUMBER: 5301412004014001001.

Melogale personata I. Geoffroy, 1831. Zool. Voy. de Belanger Indes Orient., p. 137.

TYPE LOCALITY: S. Burma, near Rangoon.

DISTRIBUTION: Rangoon (S. Burma) to Nepal and Assam (India), through Thailand and Vietnam; Java.

COMMENT: Includes *orientalis*, which may be a distinct species; see Long, 1978, Rep. Fauna Flora Wisc., 14:1-6.

ISIS NUMBER: 5301412004014003001 as *M. personata*.

5301412004014002001 as *M. orientalis*.

Mephitis E. Geoffroy and G. Cuvier, 1795. Mag. Encyclop., 2:187.

COMMENT: Subfamily Mephitinae.

ISIS NUMBER: 5301412004019000000.

Mephitis macroura Lichtenstein, 1832. Darst. Saugeth., pl. 46.

TYPE LOCALITY: Mexico, mountains N. W. of Mexico City.

DISTRIBUTION: S. Arizona, S. New Mexico, and W. Texas (U.S.A.), through Mexico to N. Nicaragua.

ISIS NUMBER: 5301412004019002001.

Mephitis mephitis (Schreber, 1776). Saugethiere, 3(17), pl. 121.

TYPE LOCALITY: Eastern Canada (=Quebec).

DISTRIBUTION: S. W. Northwest Territories to Hudson Bay and S. Quebec (Canada), south to Florida (U.S.A.), N. Tamaulipas, N. Durango, and N. Baja California (Mexico).

ISIS NUMBER: 5301412004019001001.

Mustela Linnaeus, 1758. Syst. Nat., 10th ed., 1:45.

COMMENT: Subfamily Mustelinae. Includes *Grammogale*; see Hall, 1951, Univ. Kans. Publ. Mus. Nat. Hist., 4:1-466; but see also comment under *africana*. Includes *Putorius* and *Lutreola*; see Corbet, 1978:168.

ISIS NUMBER: 5301412004007000000.

Mustela africana Desmarest, 1818. Nouv. Dict. Hist. Nat. Paris, 9:376.

TYPE LOCALITY: Brazil, probably Para.

DISTRIBUTION: Amazon Basin in Brazil, Ecuador, and Peru.

COMMENT: Izor and de la Torre, 1978, J. Mammal., 59:92-102, hypothesized a relationship between *africana* and *felipei*, and reopened the question of whether *Grammogale* is a distinct genus.

ISIS NUMBER: 5301412004007001001.

Mustela altaica Pallas, 1811. Zoogr. Rosso-Asiat., 3:98.

TYPE LOCALITY: U.S.S.R., S. W. Siberia, Altai Mtns.

DISTRIBUTION: E. Kazakhstan, S. and S. E. Siberia, Primorsky Krai (U.S.S.R.); Mongolia; Tibet, W. and N. China; Korea.

ISIS NUMBER: 5301412004007002001.

Mustela erminea Linnaeus, 1758. Syst. Nat., 10th ed., 1:46.

TYPE LOCALITY: Sweden.

DISTRIBUTION: Tundra and forested regions of Palearctic, south to the Pyrenees, Alps, Caucasus, W. Himalayas, Sinkiang (China); N. Mongolia, N. China; and C. Honshu (Japan), and in the Nearctic south to C. California, N. New Mexico, N. Iowa, and Maryland (U.S.A.).

ISIS NUMBER: 5301412004007003001.

Mustela eversmanni Lesson, 1827. Manuel Mamm., p. 144.

TYPE LOCALITY: U.S.S.R., Orenburgsk. Obl., S. of Orenburg, mouth of Khobda River, a tributary of Ilek River.

DISTRIBUTION: Steppes and subdeserts of E. Europe, U.S.S.R.; Mongolia; W., C. and N. E. China.

COMMENT: Possible ancestor of the domestic ferret, *furo*; see Corbet, 1978:171; Corbet and Hill, 1980:96. See Stroganov, 1962, [Mamm. Siberia], 2, [Carnivores], p. 335, for discussion of type locality.

- Mustela felipei* Izor and de la Torre, 1978. J. Mammal., 59:92.
 TYPE LOCALITY: Colombia, Huila, Santa Marta near San Augustin.
 DISTRIBUTION: Santa Marta (Huila, Colombia); Cauca (Colombia); (two localities separated by 70 km, on opposite sides of Cordillera Central).
- Mustela frenata* Lichtenstein, 1831. Darst. Saugeth., p. 42.
 TYPE LOCALITY: Mexico, Dist. Federal, Ciudad de Mexico.
 DISTRIBUTION: S. Canada to Venezuela and Bolivia, excluding the S. W. deserts of the U.S.A.
 ISIS NUMBER: 5301412004007004001.
- Mustela kathiah* Hodgson, 1835. J. Asiat. Soc. Bengal, 4:702.
 TYPE LOCALITY: Nepal, Kachar region.
 DISTRIBUTION: Himalayas from northern Pakistan through Nepal to Burma; S. and E. China; Indochinese Peninsula.
 ISIS NUMBER: 5301412004007005001.
- Mustela lutreola* (Linnaeus, 1761). Fauna Suec., p. 5.
 TYPE LOCALITY: Finland.
 DISTRIBUTION: France; E. Europe to (originally) Ural Mtns. in W. Siberia (U.S.S.R.), south to Hungary and the Caucasus. In the last century, has spread east to the middle courses of the Irtysh and Ob rivers.
 ISIS NUMBER: 5301412004007006001.
- Mustela lutreolina* Robinson and Thomas, 1917. Ann. Mag. Nat. Hist., ser. 8, 20:261-262.
 TYPE LOCALITY: Indonesia, Java.
 DISTRIBUTION: Java.
 COMMENT: Ellerman and Morrison-Scott, 1951:260, and Lekagul and McNeely, 1977:536, listed Java as part of the distribution of *sibirica*, inferring that *lutreolina* is included in that species; and were followed by Corbet, 1978:170; but see Ewer, 1973, The Carnivores, p. 394; Heptner and Naumov, eds., 1967, [Mammals of the Soviet Union], 2(1), pp. 700-712, who considered *lutreolina* a distinct species.
 ISIS NUMBER: 5301412004007007001.
- Mustela nigripes* (Audubon and Bachman, 1851). The Viviparous Quadrupeds of North America, 2:297.
 TYPE LOCALITY: U.S.A., Wyoming, Goshen Co., Fort Laramie.
 DISTRIBUTION: Formerly, S. Alberta and Saskatchewan (Canada) south to Arizona, Oklahoma, and N.W. Texas (U.S.A.).
 COMMENT: Reviewed by Hillman and Clark, 1980, Mamm. Species, 126:1-3.
 PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301412004007008001.
- Mustela nivalis* Linnaeus, 1766. Syst. Nat., 12th ed., 1:69.
 TYPE LOCALITY: Sweden, Vesterbotten.
 DISTRIBUTION: The Palearctic (excluding Ireland, the Arabian Pen., and Arctic Isls.); Japan; the Nearctic in Alaska (U.S.A.), Canada, and U.S.A., south to Wyoming and North Carolina.
 COMMENT: Includes *rixosa*; see Corbet, 1978:169; but see also Kurten and Anderson, 1980:150.
 ISIS NUMBER: 5301412004007009001 as *M. nivalis*.
 5301412004007012001 as *M. rixosa*.
- Mustela nudipes* Desmarest, 1822. Mammalogie, Part 2, Suppl., p. 537.
 TYPE LOCALITY: Indonesia, Java.
 DISTRIBUTION: Thailand; Malaya; Sumatra; Java; Borneo.
 COMMENT: Includes *leucocephalus*; see Hill, 1960, Bull. Raffles Mus., 29:36. Lekagul and McNeely, 1977:540, credited the species name to F. Cuvier, 1821.
 ISIS NUMBER: 5301412004007010001.
- Mustela putorius* Linnaeus, 1758. Syst. Nat., 10th ed., 1:46.
 TYPE LOCALITY: Sweden, Uppsala.
 DISTRIBUTION: Europe (excluding Ireland and most of Scandinavia), east to the Ural Mtns. (U.S.S.R.).

COMMENT: Probable ancestor of domestic ferret, *furo.*; see Corbet, 1978:171; Corbet and Hill, 1980:96.

ISIS NUMBER: 5301412004007011001.

Mustela sibirica Pallas, 1773. Reise Prov. Russ. Reichs., 2:701.

TYPE LOCALITY: U.S.S.R., E. Kazakhstan, vic. of Ust-Kamenogorsk, Tigeretskoie.

DISTRIBUTION: Tataria, Urals, Siberia, Far East (U.S.S.R.); Pakistan east to N. Burma; N. Thailand; Taiwan; China; Korea; Japan. Sakhalin (U.S.S.R.)(introduced).

COMMENT: Includes *itatsi*; see Corbet, 1978:170. May include *lutreolina*; see Ellerman and Morrison-Scott, 1951:260-262, and Lekagul and McNeely, 1977:536, who listed Java in the distribution for this species; but also see comments under *lutreolina*.

ISIS NUMBER: 5301412004007013001.

Mustela strigidorsa Gray, 1853. Proc. Zool. Soc. Lond., 1853:191.

TYPE LOCALITY: India, Sikkim.

DISTRIBUTION: Nepal east through Burma, Yunnan (China)(SW) and Thailand to Laos.

ISIS NUMBER: 5301412004007014001.

Mustela vison Schreber, 1777. Säugethiere, Suppl., 2:239.

TYPE LOCALITY: Eastern Canada (=Quebec).

DISTRIBUTION: North America from Alaska and Canada through all of U.S.A. except southwestern deserts.

COMMENT: Includes *macrodon*; see Manville, 1966, Proc. U.S. Nat. Mus., 122:10; but also see Hall, 1981:1004, who considered *macrodon* a distinct species. Introduced in Iceland, N. C. Europe, and Siberia; see Corbet, 1978:170.

ISIS NUMBER: 5301412004007015001.

Mydaus F. Cuvier, 1821. Hist. Nat. Mamm., 3(27), pl. and 2 pp. text.

COMMENT: Subfamily Melinae. Includes *Suillotaxus*; see Long, 1978, Rep. Fauna Flora Wisc., 14:1-6.

ISIS NUMBER: 5301412004015000000 as *Mydaus*.

5301412004016000000 as *Suillotaxus*.

Mydaus javanensis (Desmarest, 1820). Encyclop. Method. Mamm., 210.

TYPE LOCALITY: Indonesia, Java.

DISTRIBUTION: Java, Borneo, Sumatra and the Natuna Isls.

COMMENT: Includes *ollula* and *lucifer*; see Long, 1978, Rep. Fauna Flora Wisc., 14:1-6.

ISIS NUMBER: 5301412004015001001.

Mydaus marchei (Huet, 1887). Le Naturaliste, II, 9 annee, 13:149-151.

TYPE LOCALITY: Philippine Isls., Palawan.

DISTRIBUTION: Palawan and Calamian Isls. (Philippine Isls.).

COMMENT: Referred to the genus *Suillotaxus* by Lawrence, 1939, in Barbour *et al.*, Mustelidae in Mammal Collections from the Philippine Islands, 86(2):63-65.

Considered a subgenus of *Mydaus* by Long, 1978, Rep. Fauna Flora Wisc., 14:1-6.

ISIS NUMBER: 5301412004016001001 as *Suillotaxus marchei*.

Poecilictis Thomas and Hinton, 1920. Ann. Mag. Nat. Hist., 5:367.

COMMENT: Subfamily Mustelinae.

ISIS NUMBER: 5301412004008000000.

Poecilictis libyca (Hemprich and Ehrenberg, 1833). Symb. Phys. Mamm., 2, sig. K.

TYPE LOCALITY: Libya.

DISTRIBUTION: Fringes of the Sahara Desert from Morocco and Egypt on the north, and from Mauretania and N. Nigeria to Sudan on the south.

ISIS NUMBER: 5301412004008001001.

- Poecilogle* Thomas, 1883. Ann. Mag. Nat. Hist., ser. 5, 11:370.
 COMMENT: Subfamily Mustelinae.
 ISIS NUMBER: 5301412004009000000.
- Poecilogle albinucha* (Gray, 1864). Proc. Zool. Soc. Lond., 1864:69.
 TYPE LOCALITY: South Africa, presumed to be Cape Colony (uncertain).
 DISTRIBUTION: Zaire, Uganda and Tanzania south to South Africa.
 ISIS NUMBER: 5301412004009001001.
- Pteronura* Gray, 1837. Charlesworth's Mag. Nat. Hist., 1:580.
 REVIEWED BY: N. Duplaix (ND).
 COMMENT: Subfamily Lutrinae.
 ISIS NUMBER: 5301412004025000000.
- Pteronura brasiliensis* (Gmelin, 1788). Linn. Syst. Nat., 1:93.
 TYPE LOCALITY: Guyana (=British Guiana), Demerara.
 DISTRIBUTION: Major river systems of South America east of the Andes as far south as N. Argentina.
 COMMENT: Reviewed by Harris, 1968, Otters, Weidenfeld and Nicolson, London.
 PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301412004025001001.
- Spilogale* Gray, 1865. Proc. Zool. Soc. Lond., 1865:150.
 COMMENT: Subfamily Mephitinae. Revised by Van Gelder, 1959, Bull. Am. Mus. Nat. Hist., 117:229-392.
 ISIS NUMBER: 5301412004020000000.
- Spilogale putorius* (Linnaeus, 1758). Syst. Nat., 10th ed., 1:44.
 TYPE LOCALITY: U.S.A., South Carolina.
 DISTRIBUTION: S. W. Canada east to Minnesota and S. Pennsylvania (U.S.A.); south to Costa Rica.
 COMMENT: Includes *gracilis* and *angustifrons*; see Van Gelder, 1959, Bull. Am. Mus. Nat. Hist., 117:279; but also see Mead, 1968, J. Mammal., 49:373-390.
 ISIS NUMBER: 5301412004020002001 as *S. putorius*.
 5301412004020001001 as *S. gracilis*.
- Spilogale pygmaea* Thomas, 1898. Proc. Zool. Soc. Lond., 1897:898.
 TYPE LOCALITY: Mexico, Sinaloa, Rosario.
 DISTRIBUTION: Sinaloa to Oaxaca (Mexico).
 COMMENT: Includes *australis*; see Genoways and Jones, 1968, An. Inst. Biol. Univ. Nac. Auton. Mex., 39:123-132.
 ISIS NUMBER: 5301412004020003001.
- Taxidea* Waterhouse, 1838. Proc. Zool. Soc. Lond., 1838:154.
 COMMENT: Subfamily Melinae.
 ISIS NUMBER: 5301412004017000000.
- Taxidea taxus* (Schreber, 1778). Säugethiere, 3:520.
 TYPE LOCALITY: Canada, "Labrador or Hudson Bay."
 DISTRIBUTION: S. W. Canada to Baja California and Puebla (Mexico), east to Lake Ontario.
 COMMENT: Reviewed by Long, 1972, J. Mammal., 59:725-759, and Long, 1973, Mamm. Species, 26:1-4. Type locality restricted by Long, 1972, J. Mammal., 59:738.
 ISIS NUMBER: 5301412004017001001.
- Vormela* Blasius, 1884. Ber. Naturforsch Ges. Bemberg, 13, p. 9.
 COMMENT: Subfamily Mustelinae.
 ISIS NUMBER: 5301412004010000000.
- Vormela peregusna* (Guldenstaedt, 1770). Nova Comm. Acad. Sci. Petrop., 14(1):441.
 TYPE LOCALITY: U.S.S.R., Rostov Obl., steppes at lower Don River.
 DISTRIBUTION: Steppes and deserts of S. E. Europe, Caucasus, Kazakhstan, Middle Asia; S. W. Asia (excl. Arabia); N. China and S. Mongolia.
 ISIS NUMBER: 5301412004010001001.

Family Viverridae

REVIEWED BY: P. Grubb (PG); H. J. Stains (HJS); S. Wang (SW); W. C. Wozencraft (WCW).

COMMENT: Does not include subfamilies Herpestinae Gill, 1872 (=Mungotidae Pocock, 1916) or Galidiinae Gill, 1872, (=Galidiina Gray, 1865); see Pocock, 1916, Proc. Zool. Soc. Lond., 1916:349; Gregory and Hellman, 1939, Proc. Am. Philos. Soc., 81(3):309-392; Wurster and Benirschke, 1968, Chromosoma, 24:336-382; Thenius, 1972, Grund. Verbreit. Säugetierk., pp. 223-224; Radinsky, 1975, J. Mammal., 56:130-150; Wemmer, 1977, Smithsonian. Contrib. Zool., 239:2. The Viverridae differ from the Herpestidae in the shape and structure of the basicranial region, presence of perineal glands, civetone secretions, ear bursa, and marker chromosomes (WCW).

ISIS NUMBER: 5301412005000000000.

Arctictis Temminck, 1824. Monogr. Mamm., 1:21.

COMMENT: Subfamily Paradoxurinae; see Gill, 1872, 11(1):4.

ISIS NUMBER: 5301412005007000000.

Arctictis binturong (Raffles, 1821). Trans. Linn. Soc. Lond., 13:253.

TYPE LOCALITY: Malaysia, Malacca.

DISTRIBUTION: S. E. Asia; W. Indonesia to Borneo and Java; Palawan (Philippine Is.); Yunnan (China)(SW).

ISIS NUMBER: 5301412005007001001.

Arctogalidia Merriam, 1897. Science, 2:302.

COMMENT: Subfamily Paradoxurinae; see Gill, 1872, 11(1):4.

ISIS NUMBER: 5301412005008000000.

Arctogalidia trivirgata (Gray, 1832). Proc. Zool. Soc. Lond., 1832:68.

TYPE LOCALITY: Indonesia, Java, Buitenzorg (=Bogor).

DISTRIBUTION: Assam (India) through S. E. Asia and W. Indonesia to Borneo and Java; Yunnan (China)(SW).

COMMENT: Reviewed by Van Bemmelen, 1952, Beaufortia, 16:23-41.

ISIS NUMBER: 5301412005008001001.

Chrotogale Thomas, 1912. Abstr. Proc. Zool. Soc. Lond. 106:17.

COMMENT: Subfamily Hemigalinae; see Gill, 1872, 11(1):4.

ISIS NUMBER: 5301412005013000000.

Chrotogale owstoni Thomas, 1912. Abstr. Proc. Zool. Soc. Lond., 106:17.

TYPE LOCALITY: Vietnam, Tonkin, Songkoi River, Yen Bai.

DISTRIBUTION: Laos; N. Vietnam; Yunnan, possibly Kwangsi (China)(SW).

ISIS NUMBER: 5301412005013001001.

Civettictis Pocock, 1915. Proc. Zool. Soc. Lond., 1915:134.

COMMENT: Subfamily Viverrinae; see Gill, 1872, 11(1):4. Formerly included in *Viverra* by Coetzee, 1977, Part 8:17; but see Ansell, 1978:38; Rosevear, 1974:167-168; Kingdon, 1977:159.

Civettictis civetta (Schreber, 1777). Säugethiere, 3:418, 587.

TYPE LOCALITY: Guinea.

DISTRIBUTION: Zululand and Transvaal (South Africa) to Tanzania, N. Namibia, and Angola; C. and E. Africa to S. Somalia through Ethiopia to Kordofan (Sudan), and to Senegal in W. Africa.

COMMENT: Some authors have placed this species in *Viverra*; see Coetzee, 1977, Part 8:17; but also see Ansell, 1978:38, who placed this species in *Civettictis*. Rosevear, 1974:167, noted differences in scent glands; Petter, 1969, Mammalia, 33:607-635, discussed dental differences.

PROTECTED STATUS: CITES - Appendix III as *Viverra civetta* (Botswana).

ISIS NUMBER: 5301412005005001001 as *Viverra civetta*.

Cryptoprocta Bennett, 1833. Proc. Zool. Soc. Lond., 1833:46.

COMMENT: Subfamily Cryptoproctinae; see Gill, 1872, 11(1):4.
ISIS NUMBER: 5301412005034000000.

Cryptoprocta ferox Bennett, 1833. Proc. Zool. Soc. Lond., 1833:46.

TYPE LOCALITY: Madagascar.

DISTRIBUTION: Madagascar.

COMMENT: Beaumont, 1964, Ecolgae Geol. Helv., 57:837-845, placed *ferox* with the Felidae because of similarities in dental characters. Coetzee, 1977, Part 8:35; Thenius, 1972, Grund. Verbreit. Säugetierk., pp. 205-215, Radinsky, 1975, J. Mammal., 56:140-142, and Albignac, 1970, La Terre et la Vie, 24:395-402, placed *ferox* in the Viverridae. Hemmer, 1978, Carnivore, 1:72, suggested an intermediate position.

PROTECTED STATUS: CITES - Appendix II.

ISIS NUMBER: 5301412005034001001.

Cynogale Gray, 1837. Proc. Zool. Soc. Lond., 1836:88.

COMMENT: Subfamily Hemigalinae; see Gill, 1872, 11(1):4.
ISIS NUMBER: 5301412005014000000.

Cynogale bennettii Gray, 1837. Proc. Zool. Soc. Lond., 1836:88.

TYPE LOCALITY: Indonesia, Sumatra.

DISTRIBUTION: Malaya; Indochina; Sumatra; Borneo.

COMMENT: Includes *lowei*; see Pocock, 1933, Proc. Zool. Soc. Lond., 1933:1035. WCW believes *lowei* may be a distinct species.

PROTECTED STATUS: CITES - Appendix II.

ISIS NUMBER: 5301412005014001001.

Eupleres Doyere, 1835. Bull. Soc. Sci. Nat., 3:45.

COMMENT: Subfamily Euplerinae; see Gill, 1872, 11(1):4. Gregory and Hellman, 1939, Proc. Am. Philos. Soc., 81(3):809-892, suggested placing *Eupleres* in a separate family; but see Coetzee, 1977, Part 8:33.

ISIS NUMBER: 5301412005015000000.

Eupleres goudotii Doyere, 1835. Bull. Soc. Sci. Nat., 3:45.

TYPE LOCALITY: Madagascar, Tamatave.

DISTRIBUTION: Madagascar.

COMMENT: Includes *major*; see Coetzee, 1977, Part 8:33; and Albignac, 1974, La Terre et la Vie, 28:321-251.

PROTECTED STATUS: CITES - Appendix II as *E. goudotii* and

CITES - Appendix II as *E. major*.

ISIS NUMBER: 5301412005015001001 as *E. goudotii*.

5301412005015002001 as *E. major*.

Fossa Gray, 1865. Proc. Zool. Soc. Lond., 1864:518.

COMMENT: Subfamily Fossinae; see Albignac, 1970, La Terre et la Vie, 24:383; Petter, 1974, Mammalia, 38:605-636.

ISIS NUMBER: 5301412005016000000.

Fossa fossa (Schreber, 1777). Säugethiere, 3:424, 587.

TYPE LOCALITY: Madagascar.

DISTRIBUTION: Madagascar.

COMMENT: Correct name may be *F. fossana*; see Coetzee, 1977, Part. 8:33.

PROTECTED STATUS: CITES - Appendix II.

ISIS NUMBER: 5301412005016001001.

Genetta G. Cuvier, 1816. Regn. Anim., 1:156.

REVIEWED BY: L. Schlawe (LS).

COMMENT: Subfamily Viverrinae; see Gill, 1872, 11(1):4. For reviews, see Schlawe, 1980, Faun. Abh. Staat. Mus. J. Tierk., Dresden, 7(15):147-161; Schlawe, 1981, Zool. Abh. Staat. Mus. Tierk., Dresden, 37(4):85-182, Coetzee, 1977, Part 8:20; Rosevear, 1974:177-220, Cabral, 1966, Zool. Afr., 2:25,26, Cabral, 1969, Bol. Inst.

- Invest. Cient. Angola., 6(1):3-33, Cabral, 1970, Bol. Inst. Invest. Cient. Angola., 7(2):3-23, and Cabral, 1973, As genetas da Guine Portuguesa e de Mocambique, Lisboa. Under revision by Cabral and Schlawe (LS).
 ISIS NUMBER: 5301412005001000000.
- Genetta abyssinica* (Ruppell, 1836). Neue Wirbelt. Fauna Abyssin. Gehorig. Saugeh., 1:33.
 TYPE LOCALITY: Ethiopia, Gondar.
 DISTRIBUTION: Ethiopia; N. Somalia
 ISIS NUMBER: 5301412005001001001.
- Genetta angolensis* Bocage, 1882. J. Sci. Math. Phys. Nat. Lisboa, ser. 1, 9:29.
 TYPE LOCALITY: Angola, Caconda.
 DISTRIBUTION: N. Angola; N. W. Zambia; S. Zaire; S. Tanzania; Mozambique; Malawi.
 COMMENT: Includes *mossambica* and *hintoni*; see Schlawe, 1980, Faun. Abh. Staat. Mus. J. Tierk., Dresden, 7(15):147-161; Cabral, 1969, Bol. Inst. Invest. Cient. Angola, 6(1):3-33; Ansell, 1978:39.
 ISIS NUMBER: 5301412005001002001.
- Genetta felina* (Thunberg, 1811). Kongl. Svenska Vet.-Akad. Nya Handl., 32:165.
 TYPE LOCALITY: South Africa, Cape of Good Hope.
 DISTRIBUTION: Africa, south of the Sahara; S. Arabian Peninsula.
 COMMENT: Includes *guardafuensis*, *senegalensis*, *dongolana*, *granti*, *neumanni*, *bella*, *pulchra*, and *ludia*; see Schlawe, 1980, Faun. Abh. Staat. Mus. J. Tierk., Dresden, 7(15):147-161. Rosevear, 1974:193, recognized *senegalensis* as a distinct species. See also comments under *genetta*.
- Genetta genetta* (Linnaeus, 1758). Syst. Nat., 10th ed., 1:45.
 TYPE LOCALITY: Spain, El Pardo, near Madrid.
 DISTRIBUTION: Africa, N. W. of the Sahara to Libya; Egypt; Palestine; Iberia; Balearic Isls.; and S. France to the Rhone River.
 COMMENT: Rosevear, 1974:193, separated *senegalensis* from *genetta*; but see Coetzee, 1977, Part 8:20, Kingdon, 1977:136-143, and Cabral, 1969, Bol. Inst. Invest. Cient. Angola, 6(1):3-33. Schlawe, 1980, considered *senegalensis* a subspecies of *G. felina*. Includes *afra*, *bonapartei*, *barbara*, *terraesanctae*, *rhodanica*, and *isabelae*; see Schlawe, 1980, Faun. Abh. Staat. Mus. J. Tierk., Dresden, 7(15):147-161, who also provisionally separated *felina* from *genetta*; but also see Coetzee, 1977, Part 8:20; Ansell, 1978:39; and Cabral, 1969, Bol. Inst. Invest. Cient. Angola, 6(1):3-33.
 ISIS NUMBER: 5301412005001003001.
- Genetta johnstoni* Pocock, 1908. Proc. Zool. Soc. Lond., 1907:1041.
 TYPE LOCALITY: Liberia, W. of Putu Mtns., W. of Cavally River.
 DISTRIBUTION: Liberia; Ghana.
 COMMENT: Includes *lehmanni*; see Coetzee, 1977, Part 8:20; Schlawe, 1980, Faun. Abh. Staat. Mus. J. Tierk., Dresden, 7(15):147-161.
 ISIS NUMBER: 5301412005001004001 as *G. lehmanni*.
- Genetta maculata* (Gray, 1830). Spicil. Zool., 2:9.
 TYPE LOCALITY: C. Senegal.
 DISTRIBUTION: Africa, south of the Sahara to Bioko; Angola, Botswana and Natal (South Africa).
 COMMENT: May be conspecific with *tigrina*; see Coetzee, 1977, Part 8:22; Schlawe, 1980, Faun. Abh. Staat. Mus. J. Tierk., Dresden, 7(15):147-161; Pringle, 1977, Ann. Natal Mus., 23(1):93-115; but also see Ansell, 1978:39. Includes *pardina*, *amer* (*sensu* Schwartz, 1930, Rev. Zool. Bot. Afr., 19:275-286), *poensis*, *deorum*, *genettoides*, *rubiginosa*, *suahelica*, *fieldiana*, *aequatorialis*, *stuhlmanni*, and *bini* (not a synonym of *servalina*); see Schlawe, 1980, Faun. Abh. Staat. Mus. J. Tierk., Dresden, 7(15):147-161. See also Cabral, 1969, Bol. Inst. Invest. Cient. Angola, 6(1):3-33, who considered *maculata* to consist of two species, *poensis*, and *pardina* (including *rubiginosa*).
 ISIS NUMBER: 5301412005001005001 as *G. pardina*.

Genetta servalina Pucheran, 1855. Rev. Mag. Zool. Paris, 7(2):154.

TYPE LOCALITY: Gabon.

DISTRIBUTION: Equatorial Africa, E. of the mouth of the Niger River, possibly to Mt. Elgon (Kenya), south to the Congo River and 7° S.

COMMENT: Includes *cristata*, and *aubryana*, but not *bini* (*sensu* Rosevear, 1974:200-201), which may actually be a junior synonym of *maculata*; see Wenzel and Haltenorth, 1972, Saugetierk. Mitt., 20:110-127; Coetzee, 1977, Part 8:21-22; Schlawe, 1980, Faun. Abh. Staat. Mus. J. Tierk., Dresden, 7(15):147-161; Cabral, 1970, Bol. Inst. Invest. Cient. Angola, 7(2):323.

ISIS NUMBER: 5301412005001006001.

Genetta thierryi Matschie, 1902. Verh. V. Internat. Zool. Congr., 1901:1142.

TYPE LOCALITY: Togo, Borugu, 10° 46' N., 0° 34' E.

DISTRIBUTION: S. Mauritania to Cameroun.

COMMENT: Includes *villiersi* Dekeyser 1949; see Kuhn, 1960, Saugetierk. Mitt., 8:154-160; Schlawe, 1980, Faun. Abh. Staat. Mus. J. Tierk., Dresden, 7(15):147-161; Cabral, 1969, Bol. Inst. Invest. Cient. Angola, 6(1):3-33; Rosevear, 1974:214-217.

ISIS NUMBER: 5301412005001009001 as *G. villiersi*.

Genetta tigrina (Schreber, 1776). Saugethiere, text 1777, 3:425, pl. 115.

TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.

DISTRIBUTION: From the Cape of Good Hope to S. Natal (South Africa) and Lesotho.

COMMENT: May be conspecific with *maculata* or with *angolensis*; see Schlawe, 1980, Faun. Abh. Staat. Mus. J. Tierk., Dresden, 7(15):147-161; Ansell, 1978:40; Pringle, 1977, Ann. Natal Mus., 23(1):100-101; Cabral, 1966, Zool. Afr., 2:25-26. See also comments under *maculata*.

ISIS NUMBER: 5301412005001007001.

Genetta victoriae Thomas, 1901. Proc. Zool. Soc. Lond., 1901:87.

TYPE LOCALITY: Zaire, Semliki River, 17 km W. of Beni.

DISTRIBUTION: E. Zaire, mountainous regions.

COMMENT: Thomas listed the type locality as "Entebbe, Uganda" from a specimen collected by Sir Harry Johnston. Allen, 1924, Bull. Am. Mus. Nat. Hist., 47:132, noted that according to Johnston, 1902, The Uganda Protectorate, 1:205, it was collected on the Semlike River in Zaire, not at Entebbe.

ISIS NUMBER: 5301412005001008001.

Hemigalus Jourdan, 1837. C. R. Acad. Sci. Paris, 5:442.

COMMENT: Subfamily Hemigalinae; see Gill, 1872, 11(1):4. Includes *Diplogale*; see Ewer, 1973, The Carnivores, p. 402, and Medway, 1977:137; but also see Bourliere, 1955, in Grasse, Traite de Zool., 17:260; Walker *et al.*, 1968, Mammals of the World, p. 124; and Wenzel and Haltenorth, 1972, Saugetierk. Mitt., 20:118, who separated *D. hosei* from *Hemigalus*.

ISIS NUMBER: 5301412005017000000.

Hemigalus derbyanus (Gray, 1837). Charlesworth's Mag. Nat. Hist., 1:579.

TYPE LOCALITY: Malaysia.

DISTRIBUTION: Sipora Isl., South Pagi Isl. (W. Sumatra); Borneo; Sumatra; Malaya; Thailand; peninsular Burma.

PROTECTED STATUS: CITES - Appendix II.

ISIS NUMBER: 5301412005017001001.

Hemigalus hosei (Thomas, 1892). Proc. Zool. Soc. Lond., 1892:222.

TYPE LOCALITY: Malaysia, Sarawak, Mt. Dulit, 4000 ft. (1219 m).

DISTRIBUTION: N. Borneo.

COMMENT: Formerly included in *Diplogale*; see Stains, 1967, in Anderson and Jones, p. 341; Ewer, 1973, The Carnivores, p. 402; Medway, 1977:137; but also see Bouliere, 1955, in Grasse, Traite de Zool., 17:260; Ducker, 1965, Hand. Zool. Berlin, 10(20a):1-48, Walker *et al.*, 1968, Mammals of the World, p. 1241, and Wenzel and Haltenorth, 1972, Saugetierk. Mitt., 20:118.

ISIS NUMBER: 5301412005017002001.

- Macrogalidia* Schwartz, 1910. Ann. Mag. Nat. Hist., ser. 5, 8:423.
COMMENT: Subfamily Paradoxurinae; see Gill, 1872, 11(1):4.
ISIS NUMBER: 5301412005009000000.
- Macrogalidia musschenbroekii* (Schlegel, 1879). Notes Leyden Mus., 1:43.
TYPE LOCALITY: Indonesia, N. Sulawesi ("N. Celebes").
DISTRIBUTION: Sulawesi.
ISIS NUMBER: 5301412005009001001.
- Nandinia* Gray, 1843. Spec. Mamm. Br. Mus., p. 54.
COMMENT: Subfamily Paradoxurinae; see Gill, 1872, 11(1):4.
ISIS NUMBER: 5301412005010000000.
- Nandinia binotata* (Reinhardt, 1830). In Gray, Spicil. Zool., 2:9.
TYPE LOCALITY: Equatorial Guinea, Bioko ("Fernando Po").
DISTRIBUTION: Guinea-Bissau to Kenya, Tanzania and Mozambique; Bioko; Angola; S. Sudan.
ISIS NUMBER: 5301412005010001001.
- Osbornictis* J. A. Allen, 1919. J. Mammal., 1:25.
COMMENT: Subfamily Viverrinae; see Gill, 1872, 11(1):4. Probably congeneric with *Genetta* (WCW).
ISIS NUMBER: 5301412005002000000.
- Osbornictis piscivora* J. A. Allen, 1919. J. Mammal., 1:25.
TYPE LOCALITY: Zaire ("Congo Belge"), Niapu.
DISTRIBUTION: Zaire.
ISIS NUMBER: 5301412005002001001.
- Paguma* Gray, 1831. Proc. Zool. Soc. Lond., 1831:95.
COMMENT: Subfamily Paradoxurinae; see Gill, 1872, 11(1):4.
ISIS NUMBER: 5301412005011000000.
- Paguma larvata* (H. Smith, 1827). In Griffith, Cuvier's Anim. Kingd., 2:281.
TYPE LOCALITY: China, Canton.
DISTRIBUTION: India and Nepal, China north to Hopei and Shansi; vic. Peking; Hainan Isl. (China); Taiwan; Thailand; Malaya; Vietnam; Sumatra; N. Borneo; Viper Isl. (S. Andaman Isls.).
COMMENT: Hamilton-Smith type locality unknown. Gray first assigned the name to two specimens collected by J. R. Reeve from Canton, China; see Pocock, 1934, Proc. Zool. Soc. Lond., 1934:666(WCW). Probably includes *lanigera* (SW); see Ellerman and Morrison-Scott, 1951:290.
ISIS NUMBER: 5301412005011001001.
- Paradoxurus* F. Cuvier, 1821. In F. Cuvier and E. Geoffroy, Hist. Nat. Mamm., 24:5.
COMMENT: Subfamily Paradoxurinae; see Gill, 1872, 11(1):4.
ISIS NUMBER: 5301412005012000000.
- Paradoxurus hermaphroditus* (Pallas, 1777). In Schreber, Die Säugethiere, 3:426.
TYPE LOCALITY: India.
DISTRIBUTION: Sri Lanka and India to S. China, Hainan Isl., and Malaysia; Philippine Isls.; W. Indonesia (incl. Lesser Sunda Isls.).
COMMENT: Scattered records in Sulawesi, Moluccas, and Aru Isls. probably result from introduction (WCW).
ISIS NUMBER: 5301412005012001001.
- Paradoxurus jerdoni* Blanford, 1885. Proc. Zool. Soc. Lond., 1885:613.
TYPE LOCALITY: India, Madras, Palni Hills, Kodaikanal.
DISTRIBUTION: S. India.
ISIS NUMBER: 5301412005012002001.

Paradoxurus zeylonensis (Pallas, 1778). In Schreber, Die Säugethiere, 3:451.

TYPE LOCALITY: Sri Lanka ("Ceylon").

DISTRIBUTION: Sri Lanka.

ISIS NUMBER: 5301412005012003001.

Poiana Gray, 1865. Proc. Zool. Soc. Lond., 1864:520.

COMMENT: Subfamily Viverrinae; see Gill, 1872, 11(1):4. May be congeneric with *Prionodon* (PG, WCW).

ISIS NUMBER: 5301412005003000000.

Poiana richardsoni (Thomson, 1842). Ann. Mag. Nat. Hist., ser. 10, 1:204.

TYPE LOCALITY: Equatorial Guinea, Bioko ("Fernando Po").

DISTRIBUTION: Sierra Leone; Liberia; Ivory Coast; Bioko; Cameroun; Gabon; Congo Republic; Zaire.

COMMENT: Includes *liberiensis* (replaces *leightoni*, a *lapsus*); see Coetsee, 1977, Part 8:18. Rosevear, 1974:227, raised *leightoni* to the species level based on white versus off-white ventral coloration and presence of more or less continuous dark spinal line despite his comment earlier in the same work, on the unreliability of such characters (p. 186-188). He also supported the distinction with a recent record and a distributional gap with other known forms. *Poiana* records are few and scattered; recent studies of *Poiana* placed *leightoni* as a subspecies; see de Beaufort, 1965, Mammalia, 29:275-280; Michaelis, 1972, Säugetierk. Mitt., 20:1-110; Kingdon, 1977:159. No skulls of *leightoni* are known (WCW).

ISIS NUMBER: 5301412005003001001.

Prionodon Horsfield, 1822. Zool. Res. Java, Part 5.

COMMENT: Subfamily Viverrinae; see Gill, 1872, 11(1):4. Probably includes *Poiana* (PG, WCW).

ISIS NUMBER: 5301412005004000000.

Prionodon linsang (Hardwicke, 1821). Trans. Linn. Soc. Lond., 13:256.

TYPE LOCALITY: Malaysia, Malacca.

DISTRIBUTION: Banka Isl.; Java; Borneo; Billiton Isl.; peninsular Burma to Sumatra.

PROTECTED STATUS: CITES - Appendix II.

ISIS NUMBER: 5301412005004001001.

Prionodon pardicolor Hodgson, 1842. Calcutta J. Nat. Hist., 2:57.

TYPE LOCALITY: Nepal.

DISTRIBUTION: N. E. India to N. Indochina; Nepal; Sikkim.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.

ISIS NUMBER: 5301412005004002001.

Viverra Linnaeus, 1758. Syst. Nat., 10th ed., 1:43.

COMMENT: Subfamily Viverrinae; see Gill, 1872, 11(1):4. Does not include *Civettictis*; see Kingdon, 1977:159; Ansell, 1978:38; but also see Coetsee, 1977, Part 8:17.

ISIS NUMBER: 5301412005005000000.

Viverra megaspila Blyth, 1862. J. Asiat. Soc. Bengal, 31:331.

TYPE LOCALITY: Burma, Prome.

DISTRIBUTION: S. India; Burma; Thailand; Indochina; Malaya.

PROTECTED STATUS: U.S. ESA - Endangered as *V. m. civettina* subspecies only.

ISIS NUMBER: 5301412005005002001.

Viverra tangalunga Gray, 1832. Proc. Zool. Soc. Lond., 1832:63.

TYPE LOCALITY: Indonesia, W. Sumatra.

DISTRIBUTION: Malaya; Sumatra; Rhio-Lingga Arch.; Bangka Isl.; Borneo; Karimata Isl.; Sulawesi; Buru; Amboina; Philippine Isls.; Langkawi Isl.

COMMENT: Introduced to many S. E. Asian Isls (WCW).

ISIS NUMBER: 5301412005005003001.

Viverra zibetha Linnaeus, 1758. Syst. Nat., 10th ed., 1:43.

TYPE LOCALITY: India.

DISTRIBUTION: N. India; Nepal; Burma; Indochina; Malay Peninsula; north to Anhwei, Shensi, Chekiang and Kiangsu (China)(SW).

ISIS NUMBER: 5301412005005004001.

Viverricula Hodgson, 1838. Ann. Mag. Nat. Hist., ser. 1, 1:152.

COMMENT: Subfamily Viverrinae; see Gill, 1872, 11(1):4.

ISIS NUMBER: 5301412005006000000.

Viverricula indica (Desmarest, 1817). Nouv. Dict. Hist. Nat. Paris, 7:170.

TYPE LOCALITY: India.

DISTRIBUTION: Sri Lanka; India to S. China and Hainan Isl., and Malay Peninsula; Taiwan; Java; Kangean Isl.; Sumbawa; Bali. Introduced to Madagascar.

COMMENT: *V. malaccensis* is invalid; see Pocock, 1933, J. Bombay Nat. Hist. Soc., 36:629. Scattered distribution on many S. E. Asian Isls. due to frequent introductions (WCW).

ISIS NUMBER: 5301412005006001001.

Family Herpestidae

REVIEWED BY: P. Grubb (PG); H. J. Stains (HJS); W. C. Wozencraft (WCW).

COMMENT: Includes Herpestinae Gill, 1872 (=Mungotidae Pocock, 1916) and Galidiinae Gill, 1872 (=Galidiina Gray, 1865); see Pocock, 1916, Proc. Zool. Soc. Lond., 1916:349; Gregory and Hellman, 1939, Proc. Am. Philos. Soc., 81(3):309-392; Wurster and Benirschke, 1968, Chromosoma, 24:336-382; Radinsky, 1975, J. Mammal., 56:130-150; Wemmer, 1977, Smithson. Contrib. Zool., 239:2; Thenius, 1972, Grund. Verbreitierk. Sauget., pp. 223-224.

Atilax F. Cuvier, 1826. In E. Geoffroy and F. Cuvier, Hist. Nat. Mamm., 54:1.

ISIS NUMBER: 5301412005022000000.

Atilax paludinosus (G. Cuvier, 1829). Regn. Anim., 2nd ed., 1:158.

TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.

DISTRIBUTION: South Africa to Ethiopia; Nigeria to Gambia.

ISIS NUMBER: 5301412005022001001.

Bdeogale Peters, 1850. Spensersche Z., 25 June, 1850.

COMMENT: Includes *Galeriscus*; see Coetzee, 1977, Part 8:24; Kingdon, 1977:245.

ISIS NUMBER: 5301412005023000000.

Bdeogale crassicauda Peters, 1850. Spensersche Z., 25 June, 1850.

TYPE LOCALITY: Mozambique, Tette, Boror.

DISTRIBUTION: Mozambique; Malawi; Zambia; Kenya; Tanzania; Zanzibar.

COMMENT: See Rosevear, 1974:321, for discussion of type description.

ISIS NUMBER: 5301412005023001001.

Bdeogale jacksoni (Thomas, 1894). Ann. Mag. Nat. Hist., ser. 13, 6:622.

TYPE LOCALITY: Kenya, Mianzini, near Lake Naivasha.

DISTRIBUTION: C. Kenya; S.E. Uganda.

COMMENT: Rosevear, 1974:321, placed *jacksoni* in the genus *Galeriscus*; but also see

Kingdon, 1977:245; Sale and Taylor, 1970, J. East Afr. Nat. Hist. Soc., 28(2):10-15;

Coetzee, 1977, Part 8:24. Kingdon, 1977, considered *jacksoni* conspecific with

nigripes, as does PG; but also see Rosevear, 1974:322; Coetzee, 1977, Part 8:24, who noted skull and skin differences.

ISIS NUMBER: 5301412005023002001.

Bdeogale nigripes Pucheran, 1855. Rev. Mag. Zool. Paris, 7(2):111.

TYPE LOCALITY: Gabon.

DISTRIBUTION: Nigeria to N. Angola.

COMMENT: Rosevear, 1974:322, placed *nigripes* in the genus *Galeriscus*; but also see

Kingdon, 1977:245; Sale and Taylor, 1970, J. East Afr. Nat. Hist. Soc., 28(2):10-15;

Coetzee, 1977, Part 8:24. May include *jacksoni*; see Kingdon, 1977:245.

ISIS NUMBER: 5301412005023003001.

- Crossarchus* F. Cuvier, 1825. In E. Geoffroy and F. Cuvier, Hist. Nat. Mamm., 47:3.
 COMMENT: May include *Liberiictis* (PG).
 ISIS NUMBER: 5301412005024000000.
- Crossarchus alexandri* Thomas and Wroughton, 1907. Ann. Mag. Nat. Hist., ser. 19, 7:373.
 TYPE LOCALITY: Zaire, Ubangi, Banzyville.
 DISTRIBUTION: Zaire; Uganda.
 COMMENT: *C. alexandri* and *obscurus* may be conspecific; see Coetzee, 1977, Part 8:29.
 However, *alexandri* is very distinct in cranial proportions, approaching *Liberiictis kuhni* (PG).
 ISIS NUMBER: 5301412005024001001.
- Crossarchus ansorgei* Thomas, 1910. Ann. Mag. Nat. Hist., ser. 5, 8:195.
 TYPE LOCALITY: Angola, Dalla Tando.
 DISTRIBUTION: N. Angola; S.E. Zaire.
 ISIS NUMBER: 5301412005024002001.
- Crossarchus obscurus* F. Cuvier, 1825. In E. Geoffroy and F. Cuvier, Hist. Nat. Mamm., 47:3.
 TYPE LOCALITY: West Africa.
 DISTRIBUTION: Sierra Leone to Cameroun.
 ISIS NUMBER: 5301412005024003001.
- Cynictis* Ogilby, 1833. Proc. Zool. Soc. Lond., 1833:48.
 ISIS NUMBER: 5301412005025000000.
- Cynictis penicillata* (G. Cuvier, 1829). Regn. Anim., 2nd ed., 1:158.
 TYPE LOCALITY: South Africa, Uitenhage.
 DISTRIBUTION: South Africa; Namibia; S. Angola; Botswana; S.W. Zimbabwe.
 ISIS NUMBER: 5301412005025001001.
- Dologale* Thomas, 1926. Ann. Mag. Nat. Hist., ser. 17, 9:183.
 COMMENT: Formerly included in *Helogale*; see Hayman, 1936, Ann. Mag. Nat. Hist., ser. 10, 18:625-630.
- Dologale dybowskii* (Pousargues, 1893). Bull. Soc. Zool. Fr., 18:51.
 TYPE LOCALITY: Central African Republic, N. of Ubangi on Upper Kemo River. (6° 17' N, 17° 12' E.)
 DISTRIBUTION: N.E. Zaire; Central African Republic; S. Sudan; W. Uganda.
 COMMENT: May be congeneric with *Helogale*; see Hayman, 1936, Ann. Mag. Nat. Hist., ser. 10, 18:625-630, who also restricted type locality.
 ISIS NUMBER: 5301412005026001001 as *Helogale dybowskii*.
- Galidia* I. Geoffroy, 1837. C. R. Acad. Sci. Paris, 5:580.
 ISIS NUMBER: 5301412005018000000.
- Galidia elegans* I. Geoffroy, 1837. C. R. Acad. Sci. Paris, 5:580.
 TYPE LOCALITY: Madagascar, Tamatave.
 DISTRIBUTION: Madagascar.
 ISIS NUMBER: 5301412005018001001.
- Galidictis* I. Geoffroy, 1839. Mag. Zool., Mammal. Art. No. 5, p. 33, footnote, 37.
 ISIS NUMBER: 5301412005019000000.
- Galidictis fasciata* (Gmelin, 1788). Syst. Nat., 13th ed., 1:92.
 TYPE LOCALITY: Madagascar.
 DISTRIBUTION: Madagascar.
 COMMENT: Includes *ornata* and *striata*; see Coetzee, 1977, Part 8:34.
 ISIS NUMBER: 5301412005019001001 as *G. fasciata*.
 5301412005019002001 as *G. ornata*.
 5301412005019003001 as *G. striata*.

Helogale Gray, 1862. Proc. Zool. Soc. Lond., 1861:308.

COMMENT: May be congeneric with *Dologale*; see Hayman, 1936, Ann. Mag. Nat. Hist., ser. 10, 18:625-630.

ISIS NUMBER: 5301412005026000000.

Helogale hirtula Thomas, 1904. Ann. Mag. Nat. Hist., ser. 14, 7:97.

TYPE LOCALITY: Somalia, Gabridehari, 60 mi. (96 km) W. Gerlogobi.

DISTRIBUTION: S. Ethiopia; S. and C. Somalia; N. and C. Kenya.

COMMENT: Includes *perciali*; see Coetzee, 1977, Part 8:32.

ISIS NUMBER: 5301412005026002001 as *H. hirtula*.

5301412005026005001 as *H. perciali*.

Helogale parvula (Sundevall, 1846). Ofv. Kongl. Svenska Vet.-Akad. Forhandl. Stockholm, 3(4):121.

TYPE LOCALITY: South Africa, Transvaal, Zoutbansberg.

DISTRIBUTION: Somalia and Ethiopia to South Africa and Namibia.

COMMENT: Includes *macmillani*, *vetula*, and *victorina*; see Coetzee, 1977, Part 8:31.

ISIS NUMBER: 5301412005026004001 as *H. parvula*.

5301412005026003001 as *H. macmillani*.

5301412005026006001 as *H. vetula*.

5301412005026007001 as *H. victorina*.

Herpestes Illiger, 1811. Prodr. Syst. Mamm. et Avium., p. 135.

COMMENT: Includes *Xenogale*; see Coetzee, 1977, Part 8:26; Hayman, 1940, in Sanderson, Trans. Zool. Soc. Lond., 24:623-725; but also see Rosevear, 1974:329; and Ansell, 1978:41. Also includes *Galerella*; see Ewer, 1973, The Carnivores, p. 405; Michaelis, 1972, Säugetierk. Mitt., 20:106; Wenzel and Haltenorth, 1972, Säugetierk. Mitt., 20:122; Coetzee, 1977, Part 8:26; Kingdon, 1977:185; but also see Rosevear, 1974:308; and Ansell, 1978:41. For review of Asiatic forms see Bechthold, 1939, Z. Säugetierk., 14:133-225.

ISIS NUMBER: 5301412005027000000.

Herpestes auropunctatus (Hodgson, 1836). J. Asiat. Soc. Bengal, 5:236.

TYPE LOCALITY: Nepal.

DISTRIBUTION: N. Arabia to S. China, and Hainan Isl. (SW) and Malay Peninsula.

Introduced to the West Indies, Hawaiian Isls. (U.S.A.), and many other tropical regions.

COMMENT: Includes *palustris*; see Ewer, 1973, The Carnivores, p. 405; Michaelis, 1972, Säugetierk. Mitt., 20:106; Wenzel and Haltenorth, 1972, Säugetierk. Mitt., 20:121.

Probably conspecific with *javanicus*; see Bechthold, 1939, Z. Säugetierk., 14:147; but also see comment under *javanicus*.

ISIS NUMBER: 5301412005027001001.

Herpestes brachyurus Gray, 1837. Proc. Zool. Soc. Lond., 1836:88.

TYPE LOCALITY: Malaysia, Malacca.

DISTRIBUTION: Malaysia; Philippine Isls.; Borneo; Sumatra.

COMMENT: Probably includes *hosei* and *fuscus*; see Bechthold, 1939, Z. Säugetierk., 14:140-141.

ISIS NUMBER: 5301412005027002001.

Herpestes edwardsi (E. Geoffroy, 1818). Descrip. de L'Egypte, 2:139.

TYPE LOCALITY: India, Madras.

DISTRIBUTION: E.C. Arabia to Nepal, India and Sri Lanka.

ISIS NUMBER: 5301412005027004001.

Herpestes fuscus Waterhouse, 1838. Proc. Zool. Soc. Lond., 1838:55.

TYPE LOCALITY: India.

DISTRIBUTION: Sri Lanka; S. India.

ISIS NUMBER: 5301412005027005001.

Herpestes hosei Jentink, 1903. Notes Leyden Mus., 23:226.

TYPE LOCALITY: Malaysia, Sarawak, Baram River.

DISTRIBUTION: Sarawak (Borneo).

- COMMENT: Probably conspecific with *brachyurus*; it is only known from the type specimen, which was slightly smaller and more reddish-brown than most *brachyurus* (WCW).
 ISIS NUMBER: 5301412005027007001.
- Herpestes ichneumon* (Linnaeus, 1758). Syst. Nat., 10th ed., 1:43.
 TYPE LOCALITY: Egypt, Nile River.
 DISTRIBUTION: Africa; Spain; Portugal; north around the E. Mediterranean to extreme S. Turkey.
 ISIS NUMBER: 5301412005027008001.
- Herpestes javanicus* (E. Geoffroy, 1818). Descrip. de L'Egypte, 2:138.
 TYPE LOCALITY: Indonesia, West Java.
 DISTRIBUTION: Java; Malay Peninsula; Thailand; Kampuchea; C. Vietnam.
 COMMENT: May include *aeropunctatus*; see Bechthold, 1939, Z. Saugetierk., 14:147; Wenzel and Haltenorth, 1972, Saugetierk. Mitt., 20:121; Michaelis, 1972, Saugetierk. Mitt., 20:106; but also see Ewer, 1973, The Carnivores, p. 405; and Hinton and Dunn, 1967, The Mongooses, who considered *aeropunctatus* a distinct species (WCW).
 ISIS NUMBER: 5301412005027009001.
- Herpestes naso* De Winton, 1901. Bull. Liverpool Mus., 3:35.
 TYPE LOCALITY: Cameroun, Cameroun River.
 DISTRIBUTION: S.E. Nigeria to Gabon and Zaire.
 COMMENT: Includes *Xenogale naso*; see Allen, 1919, J. Mammal., 1:26-28; but see also Rosevear, 1974:329. Includes *microdon*; see Hayman, 1940, in Sanderson, Trans. Zool. Soc. Lond., 24:623-725, and Coetzee, 1977, Part 8:26.
 ISIS NUMBER: 5301412005027010001.
- Herpestes pulverulentus* (Wagner, 1839) Gelehrte. Anzeign. I. K. Bayer. Akad. Wiss. Munchen., 9:426.
 TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.
 DISTRIBUTION: S. Angola; Namibia; South Africa.
 COMMENT: Included in *Galerella* by Allen, 1924, Bull. Am. Mus. Nat. Hist., 47:176-178; Rosevear, 1974:308; and Ansell, 1978:41. Placed in the subgenus *Galerella* by Coetzee, 1977, Part 8:26.
 ISIS NUMBER: 5301412005027012001.
- Herpestes sanguineus* (Ruppell, 1835). Neue Wirbelt. Fauna Abyssin. Gehorig. Saugeth., 1:27.
 TYPE LOCALITY: Sudan, Kordofan.
 DISTRIBUTION: Subsaharan Africa.
 COMMENT: Included in *Galerella* by Allen, 1924, Bull. Am. Mus. Nat. Hist., 47:176-178; Rosevear, 1974:308; and Ansell, 1978:41; but also see Kingdon, 1977:185. Includes *dentifer*, *granti*, and *ochraceus*; see Coetzee, 1977, Part 8:27. Reviewed by Taylor, 1975, Mamm. Species, 65:1-5.
 ISIS NUMBER: 5301412005027013001 as *H. sanguineus*.
 5301412005027003001 as *H. dentifer*.
 5301412005027006001 as *H. granti*.
 5301412005027011001 as *H. ochracea* (sic).
- Herpestes semitorquatus* Gray, 1846. Ann. Mag. Nat. Hist., 18:211.
 TYPE LOCALITY: Mainland opposite Labuan (=Brunei).
 DISTRIBUTION: Borneo; Sumatra.
 COMMENT: May be a subspecies of *urva*; see Ewer, 1973, The Carnivores, p. 405.
 ISIS NUMBER: 5301412005027014001.
- Herpestes smithii* Gray, 1837. Charlesworth's Mag. Nat. Hist., 1:578.
 TYPE LOCALITY: India, Bombay.
 DISTRIBUTION: India; Sri Lanka.
 ISIS NUMBER: 5301412005027015001 as *H. smithi* (sic).

Herpestes urva (Hodgson, 1836). J. Asiat. Soc. Bengal, 5:238.

TYPE LOCALITY: Nepal.

DISTRIBUTION: S. China; Taiwan; Nepal to Indochina.

COMMENT: May include *semitorquatus*; see Ewer, 1973, The Carnivores, p. 405.

ISIS NUMBER: 5301412005027016001.

Herpestes vitticollis Bennett, 1835. Proc. Zool. Soc. Lond., 1835:67.

TYPE LOCALITY: India, Travancore.

DISTRIBUTION: S. India; Sri Lanka.

ISIS NUMBER: 5301412005027017001.

Ichneumia I. Geoffroy, 1837. Ann. Sci. Nat. Zool., 8(2):251.

ISIS NUMBER: 5301412005028000000.

Ichneumia albicauda (G. Cuvier, 1829). Regn. Anim., 2nd ed., 21:158.

TYPE LOCALITY: Senegal.

DISTRIBUTION: Sub-Saharan Africa; Oman.

COMMENT: Reviewed by Taylor, 1972, Mamm. Species, 12:1-4.

ISIS NUMBER: 5301412005028001001.

Liberiictis Hayman, 1958. Ann. Mag. Nat. Hist., ser. 13, 1:449.

COMMENT: Although suggested by Hayman, 1940, in Sanderson, Trans. Zool. Soc.

Lond., 24:623-725, to have a close relationship to *Crossarchus*, Coetsee, 1977, Part 8:23, considered *Liberiictis* a distinct genus. Probably should be included in *Crossarchus* (PG).

ISIS NUMBER: 5301412005029000000.

Liberiictis kuhni Hayman, 1958. Ann. Mag. Nat. Hist., ser. 13, 1:449.

TYPE LOCALITY: Liberia, Kpeaplay, 6° 36' N., 8° 30' W.

DISTRIBUTION: Liberia.

ISIS NUMBER: 5301412005029001001.

Mungos E. Geoffroy and G. Cuvier, 1795. Mag. Encyclop., 2:184, 187.

ISIS NUMBER: 5301412005030000000.

Mungos gambianus (Ogilby, 1835). Proc. Zool. Soc. Lond., 1835:102.

TYPE LOCALITY: Gambia, Cape St. Mary.

DISTRIBUTION: Gambia to Nigeria.

ISIS NUMBER: 5301412005030001001.

Mungos mungo (Gmelin, 1788). Syst. Nat., 13th ed., 1:84.

TYPE LOCALITY: "Asia."

DISTRIBUTION: South Africa, N. to Sudan and W. to Niger and Gambia (PG), excluding Congo.

COMMENT: Gmelin, 1788, gave the type locality as Asia but Ogilby, 1835, Proc. Zool.

Soc. Lond., 1835:101, restricted it to Gambia. Thomas, 1882, Proc. Zool. Soc.

Lond., 1882:90, believed it to be in the eastern part of South Africa, Cape Prov.,

as did Roberts, 1929, Ann. Transvaal Mus., 13:84, and Allen, 1924, Bull. Am. Mus.

Nat. Hist., 47:155-156 (WCW).

ISIS NUMBER: 5301412005030002001.

Mungotictis Pocock, 1915. Ann. Mag. Nat. Hist., ser. 8, 16:120.

ISIS NUMBER: 5301412005020000000.

Mungotictis decemlineata (A. Grandidier, 1867). Rev. Mag. Zool. Paris, ser. 2, 19:85.

TYPE LOCALITY: Madagascar, W. coast.

DISTRIBUTION: Madagascar.

COMMENT: Includes *lineata* and *substriatus*; see Coetsee, 1977, Part 8:35.

ISIS NUMBER: 5301412005020001001 as *M. decemlineata*.

5301412005020002001 as *M. substriatus*.

Paracynictis Pocock, 1916. Ann. Mag. Nat. Hist., ser. 17, 8:177.

ISIS NUMBER: 5301412005031000000.

Paracynictis selousi (De Winton, 1896). Ann. Mag. Nat. Hist., ser. 18, 6:469.

TYPE LOCALITY: Zimbabwe, near Bulawayo, Essex Vale.

DISTRIBUTION: Southern Africa.

ISIS NUMBER: 5301412005031001001.

Rhynchogale Thomas, 1894. Proc. Zool. Soc. Lond., 1894:139.

ISIS NUMBER: 5301412005032000000.

Rhynchogale melleri (Gray, 1865). Proc. Zool. Soc. Lond., 1864:575.

TYPE LOCALITY: Malawi, Zomba.

DISTRIBUTION: S. Zaire; Tanzania; Malawi; C. and N. Mozambique; Zambia; Zimbabwe, N. South Africa.

ISIS NUMBER: 5301412005032001001.

Salanoia Gray, 1865. Proc. Zool. Soc. Lond., 1864:523.

ISIS NUMBER: 5301412005021000000.

Salanoia concolor (I. Geoffroy, 1837). C. R. Acad. Sci. Paris, 5:581.

TYPE LOCALITY: Madagascar.

DISTRIBUTION: Madagascar.

COMMENT: Includes *olivacea* and *unicolor*; Geoffroy, 1839, noted that his 1837 species name, *unicolor*, was a typographical error and should have been *concolor*; see Coetzee, 1977, Part 8:35.

ISIS NUMBER: 5301412005021001001 as *S. olivacea*.

5301412005021002001 as *S. unicolor*.

Suricata Desmarest, 1804. Dict. Class. Hist. Nat., 1st ed., 24:15.

ISIS NUMBER: 5301412005033000000.

Suricata suricatta (Erxleben, 1777). Regn. Anim., p. 488.

TYPE LOCALITY: South Africa, Cape Prov.

DISTRIBUTION: Angola; Namibia; South Africa; S. Botswana.

ISIS NUMBER: 5301412005033001001.

Family Protelidae

COMMENT: Included in the family Hyaenidae by many authors; see Stains, 1967, in Anderson and Jones, p. 343; Corbet and Hill, 1980:103; but also see Coetzee, 1977, Part 8:35; and Ansell, 1978:44.

Proteles I. Geoffroy, 1824. Mem. Mus. Hist. Nat. Paris, 11:355.

ISIS NUMBER: 5301412006003000000.

Proteles cristatus (Sparman, 1783). Bull. Sci. Soc. Philom. Paris, p.139.

TYPE LOCALITY: South Africa, Cape Prov., Somerset East, near Little Fish River.

DISTRIBUTION: Sudan; Ethiopia; Somalia; Central African Republic; E. and S. Africa.

PROTECTED STATUS: CITES - Appendix III (Botswana).

ISIS NUMBER: 5301412006003001001.

Family Hyaenidae

REVIEWED BY: I. Rieger (IR); O. L. Rossolimo (OLR)(U.S.S.R.); H. J. Stains (HJS).

COMMENT: Formerly included Protelidae; see Ansell, 1978:44; Coetzee, 1977, Part 8:35; but also see Stains, 1967, in Anderson and Jones, p. 343; Corbet and Hill, 1980:103.

ISIS NUMBER: 5301412006000000000.

Crocota Kaup, 1828. Oken's Isis. Encyclop. Zeit, 21(11), column 1145.

COMMENT: Antedated by *Crocota* Meigen, 1800 (an insect), but this name has been suppressed in Opinion 678 of the ICZN, 1963, Bull. Zool. Nomencl., 20:339-342.

Reviewed by Ronnefeld, 1969, Saugetierk. Mitt., 17:285-350.

ISIS NUMBER: 5301412006001000000.

Crocuta crocuta (Erxleben, 1777). Syst. Regn. Anim., p. 578.

TYPE LOCALITY: Senegambia.

DISTRIBUTION: S. and E. Africa, west to Senegal.

COMMENT: Subspecies reviewed by Matthews, 1939, Proc. Zool. Soc. Lond., 1939:237-260. Type locality restricted by Cabrera, 1911, Proc. Zool. Soc. Lond., 1911:95.

ISIS NUMBER: 5301412006001001001.

Hyaena Brunnich, 1771. Zool. Fundamenta, p. 34, 42, 43.

COMMENT: Reviewed by Pocock, 1934, Proc. Zool. Soc. Lond., 1934:825; Ellerman and Morrison-Scott, 1951:299. Brisson, 1762, where *Hyaena* was first used, is unavailable; see Hemming, 1955, Bull. ICZN, 11(6):197.

ISIS NUMBER: 5301412006002000000.

Hyaena brunnea Thunberg, 1820. Kongl. Svenska Vet.-Acad. Handl. Stockholm, p. 59.

TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.

DISTRIBUTION: Africa south of Zambesi River.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.

ISIS NUMBER: 5301412006002001001.

Hyaena hyaena (Linnaeus, 1758). Syst. Nat., 10th ed., 1:40.

TYPE LOCALITY: S. Iran, Laristan, Benna Mtns.

DISTRIBUTION: N. and E. Africa south to Tanzania; Asia Minor to Arabia; Iran; Transcaucasia; Turkmenia (U.S.S.R.); India; Nepal.

COMMENT: Type locality restricted by Thomas, 1911, Proc. Zool. Soc. Lond., 1911:134. Reviewed by Rieger, 1981, Mamm. Species, 150:105.

PROTECTED STATUS: U.S. ESA - Endangered as *H. h. barbara* subspecies only.

ISIS NUMBER: 5301412006002002001.

Family Felidae

REVIEWED BY: G. E. Glass (GEG); C. P. Groves (CPG); N. A. Neff (NAN); J. Ramirez-Pulido (JRP)(Mexico); I. Rieger (IR); O. L. Rossolimo (OLR)(U.S.S.R.); A. H. Shoemaker (AHS); H. J. Stains (HJS).

COMMENT: The generic classification of this family is unstable; see Guggisberg, 1975, The Wild Cats of the World, 328 pp. Due to inconsistencies of the dates of publication for Schreber's names in the literature, we follow Sherborn, 1892, Proc. Zool. Soc. Lond., 1891:587-592 (NAN).

PROTECTED STATUS: CITES - Appendix II except *Felis catus*.

ISIS NUMBER: 5301412007000000000.

Acinonyx Brookes, 1828. Cat. Anat. Zool. Mus. J. Brookes, Lond., p. 16, 33.

COMMENT: Availability of Brookes catalogue names is uncertain (CPG).

ISIS NUMBER: 5301412007003000000.

Acinonyx jubatus (Schreber, 1776). Säugethiere, 3:pl. 105 (text 3:392, 1777).

TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.

DISTRIBUTION: Steppe and savanna zones from Baluchistan through Iran and Turkmenia (U.S.S.R.) to N.E. Arabia; widespread in Africa except the Sahara; formerly India and Egypt.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.

ISIS NUMBER: 5301412007003001001.

Felis Linnaeus, 1758. Syst. Nat., 10th ed., 1:41.

REVIEWED BY: A. C. Ziegler (ACZ).

COMMENT: Includes *Herpailurus*, *Leopardus*, *Lynchailurus*, *Oreailurus*, *Pardofelis*, *Prionailurus*, *Profelis*, and *Puma*, which are all considered valid genera by CPG; also includes *Badiofelis*, *Chaus*, *Leptailurus*, *Mayailurus*, and *Otocolobus*; see Corbet and Hill, 1980:104, Corbet, 1978:180, and Hemmer, 1978, Carnivore, 1:71. *Felis* is in need of revision. The number and content of genera that should be recognized is in dispute; see Hemmer, 1978, Carnivore, 1:71, and Weigel, 1961, Säugetierk. Mitt., 9:120. See also comments under *Lynx* and *Panthera*.

ISIS NUMBER: 5301412007001000000.

- Felis aurata* Temminck, 1827. Monogr. Mamm., 1:120.
 TYPE LOCALITY: Sierra Leone.
 DISTRIBUTION: Gambia to Kenya, south to Angola, S. Zaire, and Burundi.
 COMMENT: Type locality is uncertain; see Gray, 1838, Ann. Mag. Nat. Hist., ser. 1, 1:27, for the Sierra Leone information (IR); and Van Mensch and Van Bree, 1969, Biologia Gabon., 4:236-269, for "probably between Cross River and River Congo" which was given in a review of the species (CPG).
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 ISIS NUMBER: 5301412007001001001.
- Felis badia* Gray, 1874. Proc. Zool. Soc. Lond., 1874:322.
 TYPE LOCALITY: Malaysia, Sarawak.
 DISTRIBUTION: Borneo.
 COMMENT: Closely related to and perhaps conspecific with *temmincki* (CPG).
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 ISIS NUMBER: 5301412007001002001.
- Felis bengalensis* Kerr, 1792. Anim. Kingdom, 1:151.
 TYPE LOCALITY: India, Bengal, Sunderbans.
 DISTRIBUTION: Lower Amur (E. Siberia) through Korea and N.E. China and most of the Oriental region west to Baluchistan, and southeast to Taiwan; Philippine Isls., Java, Bali, and Borneo.
 COMMENT: Includes *euptilura* from E. Siberia; see Corbet, 1978:184; but also see Gromov and Baranova, 1981:285, who listed *euptilura* as a distinct species. Includes *minuta*; see Chasen, 1940:108. See Heptner, 1971, Zool. Zh., 50:1720, for discussion of systematics. Subspecies extremely variable (AHS).
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 CITES - Appendix I and U.S. ESA - Endangered as *F. b. bengalensis* subspecies only.
 ISIS NUMBER: 5301412007001003001.
- Felis bieti* Milne-Edwards, 1892. Rev. Gen. Sci. Pures Appl., 3:671.
 TYPE LOCALITY: China, Szechwan, vicinity of Tongolo and Tatsienlu.
 DISTRIBUTION: Dry steppe from the eastern flanks of the Tibetan plateau in C. China north to Inner Mongolia; perhaps to Mongolia.
 COMMENT: The distinction between *bieti* and *silvestris* is dubious according to Haltenorth, 1953, Die Wildkatzen der alten Welt: eine ubersicht uber die Untergattung *Felis*.
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 ISIS NUMBER: 5301412007001004001.
- Felis chaus* Guldenstaedt, 1776. Nova Comm. Acad. Sci. Petrop., 20:483.
 TYPE LOCALITY: U.S.S.R., Dagestan, Terek River, N. of the Caucasus.
 DISTRIBUTION: Egypt to the Volga delta, east to Sinkiang, Tibet, Szechwan, Yunnan (China), and through India to Thailand and Vietnam; Sri Lanka.
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 ISIS NUMBER: 5301412007001007001.
- Felis colocolo* Molina, 1810. Sagg. Stor. Nat. Chile, p. 295.
 TYPE LOCALITY: Chile, Valparaiso.
 DISTRIBUTION: S.W. Brazil; S. and W. Bolivia; Argentina; Uruguay; Peru; C. Chile; Ecuador.
 COMMENT: Includes *pajeros*; see Osgood, 1943, Field Mus. Nat. Hist. Publ. Zool. Ser., p. 79-84.
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 ISIS NUMBER: 5301412007001008001.
- Felis concolor* Linnaeus, 1771. Regn. Anim., App. Mant. Plantar., 2:522.
 TYPE LOCALITY: French Guiana, Cayenne.
 DISTRIBUTION: S. Argentina and C. Chile, north to British Columbia, S. Ontario, and Nova Scotia (Canada).

- COMMENT: *Puma* is considered a valid genus by CPG.
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 CITES - Appendix I and U.S. ESA - Endangered as *F. c. coryi* subspecies only.
 CITES - Appendix I and U.S. ESA - Endangered as *F. c. costaricensis* subspecies only.
 CITES - Appendix I and U.S. ESA - Endangered as *F. c. cougar* subspecies only.
 ISIS NUMBER: 5301412007001009001.
- Felis geoffroyi* d'Orbigny and Gervais, 1844. Bull. Sci. Soc. Philom. Paris, p. 44.
 TYPE LOCALITY: Argentina, Buenos Aires Prov., Rio Negro.
 DISTRIBUTION: Uruguay; Paraguay; Argentina; Andean Bolivia; S. Brazil.
 COMMENT: Reviewed by Ximenez, 1975, Mamm. Species, 54:1-4. Frequently exhibits melanism (AHS).
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 ISIS NUMBER: 5301412007001010000.
- Felis guigna* Molina, 1782. Sagg. Stor. Nat. Chile, p. 295.
 TYPE LOCALITY: Chile, Valdivia.
 DISTRIBUTION: S. and C. Chile; S. Argentina.
 COMMENT: Type locality fixed by Thomas, 1903, Ann. Mag. Nat. Hist., ser. 7, 12:240, based on Philippi, 1870, Arch. Naturg., 36(1):41-43.
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 ISIS NUMBER: 5301412007001011001.
- Felis iriomotensis* Imaizumi, 1967. J. Mamm. Soc. Jpn., 3:74.
 TYPE LOCALITY: Japan, Ryukyu Isls., Iriomote Isl., Haimida.
 DISTRIBUTION: Iriomote Isl. (Ryukyu Isls.)
 COMMENT: Possibly conspecific with *bengalensis*; Imaizumi's key characters are polymorphic in *bengalensis* (Glass, 1979, 59th Ann. Meet. Am. Soc. Mammal., p. 5); see Petzsch, 1970, Das Pelzgewerbe, 20:3-7; Guggisberg, 1975, The Wild Cats of the World, p. 89; Glass and Todd, 1977, Z. Saugetierk., 42:36-44.
 PROTECTED STATUS: CITES - Appendix II as Felidae and U.S. ESA - Endangered as *F. (=Mayailurus) iriomotensis*.
 ISIS NUMBER: 5301412007001012001.
- Felis jacobita* Cornalia, 1865. Mem. Soc. Ital. Sci. Nat., 1:3.
 TYPE LOCALITY: Bolivia, Potosi, near Argentinian border between Huanchaca and Potosi.
 DISTRIBUTION: N.E. Chile; S. Peru; S.W. Bolivia; N. Argentina.
 COMMENT: Placed in subgenus *Oreailurus* by CPG.
 PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301412007001013001.
- Felis manul* Pallas, 1776. Reise Prov. Russ. Reichs., 3:692.
 TYPE LOCALITY: U.S.S.R., S.W. Transbaikalia, Buryat-Mongolsk. A.S.S.R.; S. of Lake Baikal, Kulusutai.
 DISTRIBUTION: Steppe and semidesert from Caspian Sea to Kashmir, Transbaikalia, Mongolia, and C. China, north to Inner Mongolia and east to Hopei (SW).
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 ISIS NUMBER: 5301412007001016001.
- Felis margarita* Loche, 1858. Rev. Mag. Zool. Paris, ser. 2, 10(2):49.
 TYPE LOCALITY: Algeria, N. of Ouargla, near Negonca.
 DISTRIBUTION: Deserts from S. Morocco; Senegal; Algeria; Niger; Egypt; probably Sinai; S.E. Arabia; N. Iran; Turkestan; Baluchistan.
 COMMENT: Includes *thinobia*; see Corbet, 1978:182. Revised by Hemmer *et al.*, 1976. Z. Saugetierk., 41:286. See also Schauenberg, 1974, Rev. Suisse Zool., 81:949-969 for geographic variation, distribution, systematics and ecology. *F. marginata* is a *lapsus*; see Gray, 1867, Proc. Zool. Soc. Lond., 1867:275.
 PROTECTED STATUS: CITES - Appendix II as Felidae.
 ISIS NUMBER: 5301412007001017001.

- Felis marmorata* Martin, 1837. Proc. Zool. Soc. Lond., 1836:108.
 TYPE LOCALITY: Indonesia, Sumatra.
 DISTRIBUTION: N. India and Nepal to Vietnam, Thailand, Malaya, Sumatra, and Borneo. Probably S. China.
 COMMENT: *Pardofelis* is considered a valid genus by CPG. Type locality discussed by Robinson and Kloss, 1919, J. Fed. Malay St. Mus., 7:261.
 PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301412007001018001.
- Felis nigripes* Burchell, 1824. Travels in Interior of Southern Africa, vol. 2:592.
 TYPE LOCALITY: South Africa, Cape Prov., Bechuanaland, near Kuruman.
 DISTRIBUTION: South Africa; S. Namibia; Botswana.
 PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301412007001019001.
- Felis pardalis* Linnaeus, 1758. Syst. Nat., 10th ed., 1:42.
 TYPE LOCALITY: Mexico, Veracruz, Hernandez.
 DISTRIBUTION: E. Brazil, Paraguay, N. Argentina, and Peru, north to C. Arizona and Texas (U.S.A.). Arkansas (CPG).
 COMMENT: *Leopardus* is considered a valid genus by CPG. Type locality fixed by Thomas, 1911, Proc. Zool. Soc. Lond., 1911:136.
 PROTECTED STATUS: CITES - Appendix II as Felidae. U.S. ESA - Endangered as *F. pardalis*.
 CITES - Appendix I as *F. p. mearnsi* subspecies only.
 CITES - Appendix I as *F. p. mitis* subspecies only.
 ISIS NUMBER: 5301412007001020000.
- Felis planiceps* Vigors and Horsfield, 1827. Zool. J., 3:449.
 TYPE LOCALITY: Indonesia, Sumatra.
 DISTRIBUTION: Peninsular Thailand; Malaya; Sumatra; Borneo.
 PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.
 ISIS NUMBER: 5301412007001022001.
- Felis rubiginosa* I. Geoffroy, 1831. Zool. Voy. de Belanger Indes Orient. Zool., p. 140.
 TYPE LOCALITY: India, Pondicherry.
 DISTRIBUTION: India; Sri Lanka; Kashmir.
 COMMENT: See Chakraborty, 1978, J. Bombay Nat. Hist. Soc., 75:478-479 for discussion of distribution.
 PROTECTED STATUS: CITES - Appendix I (Indian population only).
 ISIS NUMBER: 5301412007001023001.
- Felis serval* Schreber, 1776. Säugethiere, 3:pl. 108 (text 3:407, 1777).
 TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.
 DISTRIBUTION: S.E. Morocco; Algeria; Subsaharan Africa.
 PROTECTED STATUS: CITES - Appendix II as Felidae and U.S. ESA - Endangered as *F. s. constantina* subspecies only.
 ISIS NUMBER: 5301412007001025001.
- Felis silvestris* Schreber, 1777. Säugethiere, 3:397.
 TYPE LOCALITY: Germany.
 DISTRIBUTION: Deciduous woodland savanna and steppe from W. Europe to N.W. China and C. India; Morocco to Egypt, south to Sudan, S. Mauritania and Senegal, eastward to Ethiopia, through subsaharan savannas to the Cape (South Africa).
 COMMENT: This name was placed on the official list by opinion 465 of the ICZN, 1957. Includes *libyca*, *chutuchta*, *vellerosa* and *catus* (worldwide), which was domesticated from this species; see Corbet, 1978:181. *F. s. vellerosa* is probably a domestic cat (CPG).
 PROTECTED STATUS: CITES - Appendix II as Felidae (The domestic cat, *Felis catus*, is specifically excluded from protection).
 ISIS NUMBER: 5301412007001026001 as *F. silvestris*.
 5301412007001006001 as *F. catus*.
 5301412007001014001 as *F. libyca*.

Felis temmincki Vigors and Horsfield, 1827. Zool. J., 3:451.

TYPE LOCALITY: Indonesia, Sumatra.

DISTRIBUTION: Nepal, to Shensi and Kiangsi (China)(SW) south to Sumatra.

COMMENT: Includes *tristis*; see Ellerman and Morrison-Scott, 1951:312.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.

ISIS NUMBER: 5301412007001027001.

Felis tigrina Schreber, 1775. Säugethiere, 3:pl. 106 (text 3:396, 1777).

TYPE LOCALITY: French Guiana, Cayenne.

DISTRIBUTION: Costa Rica; Colombia to S. Brazil, Paraguay, and N. Argentina.

PROTECTED STATUS: CITES - Appendix II as Felidae and U.S. ESA - Endangered as *F.*

tigrina.

CITES - Appendix I as *F. t. oncilla* subspecies only.

ISIS NUMBER: 5301412007001028001.

Felis viverrina Bennett, 1833. Proc. Zool. Soc. Lond., 1833:68.

TYPE LOCALITY: India, Kerala, Malabar Coast.

DISTRIBUTION: India, Sri Lanka, Nepal, east to Vietnam and Taiwan (SW); south to Sumatra, Java, and Bali.

COMMENT: Ellerman and Morrison-Scott, 1951, restricted the type locality to "Malabar Coast."

PROTECTED STATUS: CITES - Appendix II as Felidae.

ISIS NUMBER: 5301412007001029001 as *F. viverrinus* (sic).

Felis wiedii Schinz, 1821. Cuvier's Thierreich., p. 235.

TYPE LOCALITY: Brazil, Bahia, near Rio Mucuri, Morro de Arara.

DISTRIBUTION: S. Brazil, N. Uruguay, and N. Argentina, north to Oaxaca, S. Sinaloa (Mexico) and S. Texas (U.S.A.).

COMMENT: Type locality determined by Allen, 1919, Bull. Am. Mus. Nat. Hist., 41:357.

PROTECTED STATUS: CITES - Appendix II as Felidae and U.S. ESA - Endangered as *F.*

wiedii.

CITES - Appendix I as *F. w. nicaraguae* subspecies only.

CITES - Appendix I as *F. w. salvina* subspecies only.

ISIS NUMBER: 5301412007001030000.

Felis yagouaroundi E. Geoffroy, 1803. Cat. Mamm. Mus. Nat. Hist. Nat., p. 124.

TYPE LOCALITY: Argentina, Buenos Aires.

DISTRIBUTION: S. Brazil to Peru, north to S. Arizona and S. Texas (U.S.A.).

COMMENT: *Herpailurus* is considered a valid genus by CPG. First available type locality from Martin, 1833, Proc. Zool. Soc. Lond., 1833:3. Two color phases occur (AHS).

PROTECTED STATUS: CITES - Appendix II as Felidae.

CITES - Appendix I and U.S. ESA - Endangered as *F. y. cacomitli* subspecies only.

CITES - Appendix I and U.S. ESA - Endangered as *F. y. fossata* subspecies only.

CITES - Appendix I and U.S. ESA - Endangered as *F. y. panamensis* subspecies only.

CITES - Appendix I and U.S. ESA - Endangered as *F. y. tolteca* subspecies only.

ISIS NUMBER: 5301412007001031001.

Lynx Kerr, 1792. Anim. Kingdom, 1:155.

COMMENT: Included in *Felis* by Corbet, 1978:182, but maintained as a separate genus

by Matyushkin, 1979, Arch. Zool. Mus. Moscow St. Univ., 18:76-162, and

Werdelin, 1981, Ann. Zool. Fenn., 18:37-71, who revised the genus. Includes

Caracal; Matyushkin, 1979:95, provisionally included the subgenus *Caracal* in this genus, but Werdelin, (*op. cit.*) retained *Caracal* as a distinct genus.

Lynx canadensis Kerr, 1792. Anim. Kingdom, 1:155.

TYPE LOCALITY: Eastern Canada (= Quebec).

DISTRIBUTION: Taiga zone of North America, south to C. Utah and S.W. Colorado, N.E. Nebraska, S. Indiana, and N. Virginia (U.S.A.).

COMMENT: Included in *F. lynx* by Corbet, 1978:183, but given specific status by

Matyushkin, 1979, Arch. Zool. Mus. Moscow St. Univ., 18:76-162; and Werdelin,

1981, Ann. Zool. Fenn., 18:37-71.

PROTECTED STATUS: CITES - Appendix II as Felidae.

Lynx caracal (Schreber, 1776). Säugethiere, 3:pl. 106 (text 3:413, 1777).

TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope, Table Mountain.

DISTRIBUTION: Steppe and savanna from Turkestan and N.W. India to Egypt, Algeria and Morocco; Subsaharan Africa in savanna zones.

COMMENT: Provisionally placed by Werdelin, 1981, Ann. Zool. Fenn., 18:37-71, in genus *Caracal*; see also comment under *Lynx*.

PROTECTED STATUS: CITES - Appendix II as Felidae and

CITES - Appendix I as *Felis caracal*, Asian population only.

ISIS NUMBER: 5301412007001005001 as *Felis caracal*.

Lynx lynx (Linnaeus, 1758). Syst. Nat., 10th ed., 1:43.

TYPE LOCALITY: Sweden, near Uppsala, Wennersborg.

DISTRIBUTION: Taiga forest from Scandinavia to E. Siberia and N.E. China; montane Europe (formerly widespread, now restricted to Balkans and Carpathians); Asia Minor through mtns. of C. Asia to Kansu, Tsaidam (Tsinghai), Shansi, and Szechwan (China); Sakhalin (U.S.S.R.); perhaps Sardinia.

COMMENT: Does not include *canadensis* or *pardinus*; see Matyushkin, 1979, Arch. Zool. Mus. Moscow St. Univ., 18:76-162, and Werdelin, 1981, Ann. Zool. Fenn., 18:37-71. Includes *isabellina*; see Corbet, 1978:183.

PROTECTED STATUS: CITES - Appendix II as Felidae.

ISIS NUMBER: 5301412007001015001 as *Felis lynx*.

Lynx pardinus (Temminck, 1824). Monogr. Mamm., 1:116.

TYPE LOCALITY: Portugal, near Lisbon.

DISTRIBUTION: Iberian Peninsula.

COMMENT: Included in *Felis lynx* by Corbet, 1978:182, but given specific status by Matyushkin, 1979, Arch. Zool. Mus. Moscow St. Univ., 18:76-162, and Werdelin, 1981, Ann. Zool. Fenn., 18:37-71. Probably a race of *lynx* (AHS).

PROTECTED STATUS: CITES - Appendix II as Felidae and U.S. ESA - Endangered as *Felis lynx pardina* subspecies only.

ISIS NUMBER: 5301412007001021001 as *Felis pardina*.

Lynx rufus (Schreber, 1776). Säugethiere, 3(95):pl. 109b (text 3:412, 1777).

TYPE LOCALITY: U.S.A., New York.

DISTRIBUTION: S. British Columbia to Nova Scotia (Canada), south to Oaxaca (Mexico).

COMMENT: Includes *oaxacensis*; see Goodwin, 1963, Am. Mus. Novit., 2139:1-7.

PROTECTED STATUS: CITES - Appendix II as Felidae.

CITES - Appendix I as *Felis* (= *Lynx*) *rufa* (*sic*) *escuinapae* subspecies only. U.S. ESA - Endangered as *Felis rufus escuinapae* subspecies.

ISIS NUMBER: 5301412007001024001 as *Felis rufus*.

Neofelis Gray, 1867. Proc. Zool. Soc. Lond., 1867:265.

Neofelis nebulosa (Griffith, 1821). Descrip. Anim. (Carn.), p. 37, pl.

TYPE LOCALITY: China, Kwangtung, Canton.

DISTRIBUTION: Nepal to Fukien (China) and Indochina; north to Shensi (China); south to Sumatra and Borneo; Taiwan.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.

ISIS NUMBER: 5301412007002002001 as *Panthera nebulosa*.

Panthera Oken, 1816. Lehrb. Zool., 3(2):1052.

REVIEWED BY: C. A. Hill (CAH).

COMMENT: In accordance with the provisions of Article 80 of the ICZN code, *Panthera* is used instead of *Leo*. Includes *Uncia*; see Corbet, 1978:184; but also see Hemmer, 1972, Mamm. Species, 20:1-5, and Heptner and Naumov, 1972, [Mammals of the Soviet Union], Vol. 2(2):211. Van Gelder, 1977:13, included *Panthera* as a synonym of *Felis*. CAH prefers the use of *Leo* and does not agree with the interpretation of Article 80 of the ICZN code presented here.

ISIS NUMBER: 5301412007002000000.

Panthera leo (Linnaeus, 1758). Syst. Nat., 10th ed., 1:41.

TYPE LOCALITY: Algeria, Constantine, Barbary.

DISTRIBUTION: Sub-Saharan Africa (except tropical rainforests); Gir Forest (N.W. India).

COMMENT: Formerly in non-desert N. Africa; S.E. Europe, and S.W. Asia.

PROTECTED STATUS: CITES - Appendix II as Felidae.

CITES - Appendix I and U.S. ESA - Endangered as *P. l. persica* subspecies only.

ISIS NUMBER: 5301412007002001001.

Panthera onca (Linnaeus, 1758). Syst. Nat., 10th ed., 1:42.

TYPE LOCALITY: Brazil, Pernambuco.

DISTRIBUTION: N. Argentina and S. Brazil to Peru, north to Oaxaca (Mexico) to S. Texas and N.C. Arizona, N. Baja California (Mexico), S. California, and S.W. and C. New Mexico (U.S.A.).

COMMENT: Type locality subsequently fixed by Thomas, 1911. Proc. Zool. Soc. Lond., 1911:135. Frequently exhibits melanism (AHS).

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.

ISIS NUMBER: 5301412007002003001.

Panthera pardus (Linnaeus, 1758). Syst. Nat., 10th ed., 1:41.

TYPE LOCALITY: Egypt.

DISTRIBUTION: N. Africa; S.W. Asia, north Caucasus and Kopet Dag, throughout Oriental region to Java, north to Korea and Amur region; sub-Saharan Africa.

COMMENT: Type locality fixed by Thomas, 1911. Proc. Zool. Soc. Lond., 1911:135. Frequently exhibits melanism (AHS).

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.

ISIS NUMBER: 5301412007002004001.

Panthera tigris (Linnaeus, 1758). Syst. Nat., 10th ed., 1:41.

TYPE LOCALITY: India, Bengal.

DISTRIBUTION: Oriental region (except Borneo and Philippines); north to extreme S.E. Siberia (U.S.S.R.); formerly in S. Caucasus, Asia Minor, N. Iran, Afghanistan, Bali, and Java.

COMMENT: Type locality fixed by Thomas, 1911, Proc. Zool. Soc. Lond., 1911:135. Populations of *sondaica* (including *balica*) and *virgata* probably extinct (AHS). Reviewed by Mazak, 1981, Mamm. Species, 152:1-8.

PROTECTED STATUS: CITES - Appendix I (except *P. t. altaica*) and U.S. ESA - Endangered as *P. tigris*.

CITES - Appendix II as *P. t. altaica* subspecies only.

ISIS NUMBER: 5301412007002005001.

Panthera uncia (Schreber, 1775). Säugethiere, 3:pl. 100 (text, 3:386, 1777).

TYPE LOCALITY: Altai Mtns. (U.S.S.R. or Mongolia).

DISTRIBUTION: Mtns. of Central Asia from Altai through the Tien Shan and Pamir Ranges to Afghanistan, Kashmir, Nepal, and parts of W. and N.C. China.

COMMENT: Type locality fixed by Pocock, 1930, J. Bombay Nat. Hist. Soc., 34:332.

Corbet, 1978:185, placed this species in *Panthera*, but see review by Hemmer, 1972, Mamm. Species, 20:1-5, and Heptner and Naumov, 1972, [Mammals of the Soviet Union], Vol. 2(2):211, who retained the genus *Uncia* for this species, as do OLR and NAN.

PROTECTED STATUS: CITES - Appendix I and U.S. ESA - Endangered.

ISIS NUMBER: 5301412007002006001.

Family Otariidae

REVIEWED BY: J. E. King (JEK); T. R. Loughlin (TRL); D. W. Rice (DWR); O. L. Rossolimo (OLR)(U.S.S.R.); H. J. Stains (HJS).

ISIS NUMBER: 5301413001000000000.

Arctocephalus E. Geoffroy and F. Cuvier, 1826. Dict. Sci. Nat., 39:554.

COMMENT: Includes *Arctophoca* as a subgenus; see Reppenning *et al.*, 1971, Antarct. Res.

- Ser., 18:1-34, who reviewed *Arctocephalus*. Van Gelder, 1977:13, included *Zalophus* in *Arctocephalus*; but also see Hall, 1981:1059.
 PROTECTED STATUS: CITES - Appendix II as *Arctocephalus* spp.
 ISIS NUMBER: 5301413001001000000.
- Arctocephalus australis* (Zimmermann, 1783). Geogr. Gesch. Mensch. Vierf. Thiere, 3:276.
 TYPE LOCALITY: Falkland Isls. (U.K.).
 DISTRIBUTION: Coasts of South America from Lima (Peru) to Rio de Janeiro (Brazil); Falkland Isls.
 PROTECTED STATUS: CITES - Appendix II as *Arctocephalus* spp.
 ISIS NUMBER: 5301413001001001001.
- Arctocephalus forsteri* (Lesson, 1828). Dict. Class. Hist. Nat. Paris, 13:421.
 TYPE LOCALITY: New Zealand, Southland, Dusky Sound.
 DISTRIBUTION: New Zealand and nearby subantarctic Isls.; S. and W. Australia.
 PROTECTED STATUS: CITES - Appendix II as *Arctocephalus* spp.
 ISIS NUMBER: 5301413001001002001.
- Arctocephalus galapagoensis* Heller, 1904. Proc. Calif. Acad. Sci., ser. 3, 3(7):245.
 TYPE LOCALITY: Galapagos Isls., Wenman Isl. (Ecuador).
 DISTRIBUTION: Galapagos Isls.
 COMMENT: Reviewed by Clark, 1975, Mamm. Species, 64:1-2. Considered conspecific with *australis* by Scheffer, 1958, Seals, sealions, and walruses, Stanford Univ. Press, 179 pp.
 PROTECTED STATUS: CITES - Appendix II as *Arctocephalus* spp.
 ISIS NUMBER: 5301413001001003001.
- Arctocephalus gazella* (Peters, 1875). Monatsb. Preuss. Akad. Wiss. Berlin, p. 396.
 TYPE LOCALITY: Kerguelen Isls. (France).
 DISTRIBUTION: Islands S. of Antarctic convergence (Kerguelen, S. Sandwich, S. Orkney, Heard, Bouver, S. Georgia, S. Shetland Isls).
 PROTECTED STATUS: CITES - Appendix II as *Arctocephalus* spp.
 ISIS NUMBER: 5301413001001004001.
- Arctocephalus philippii* (Peters, 1866). Monatsb. Preuss. Akad. Wiss. Berlin, p. 396.
 TYPE LOCALITY: Juan Fernandez Isl., Robinson Crusoe Isl. (Chile).
 DISTRIBUTION: Juan Fernandez Isls.
 COMMENT: Formerly included in *Arctophoca*; see Repenning *et al.*, 1971, Antarct. Res. Ser., 18:1-34.
 PROTECTED STATUS: CITES - Appendix II as *Arctocephalus* spp.
 ISIS NUMBER: 5301413001001005001.
- Arctocephalus pusillus* (Schreber, 1776). Säugethiere, 3: text to pl. 85.
 TYPE LOCALITY: South Africa, Cape Prov., Cape of Good Hope.
 DISTRIBUTION: S.W. Africa from Angola to Cape of Good Hope; S.E. Australia; Tasmania.
 COMMENT: Includes *doriferus* and *tasmanicus*; see Repenning *et al.*, 1971, Antarct. Res. Ser., 18:1-34.
 PROTECTED STATUS: CITES - Appendix II as *Arctocephalus* spp.
 ISIS NUMBER: 5301413001001006001.
- Arctocephalus townsendi* Merriam, 1897. Proc. Biol. Soc. Wash., 11:178.
 TYPE LOCALITY: Mexico, Guadalupe Isl., Fondeadero del Oeste (West Anchorage).
 DISTRIBUTION: Guadalupe Isl. (Mexico); Channel Isls. (California, U. S. A.).
 COMMENT: Formerly included in *Arctophoca*; see Repenning *et al.*, 1971, Antarct. Res. Ser., 18:1-34. Considered conspecific with *philippii* by Scheffer, 1958, Seals, sealions, and walruses, Stanford Univ. Press, 179 pp.
 PROTECTED STATUS: CITES - Appendix I.
 ISIS NUMBER: 5301413001001007001.
- Arctocephalus tropicalis* (Gray, 1872). Proc. Zool. Soc. Lond., 1872:659.
 TYPE LOCALITY: "Australasian Sea". No exact locality; probably Amsterdam Isl.
 DISTRIBUTION: Islands N. of Antarctic Convergence (Tristan, Gough, Marion, Crozet, Amsterdam, Macquarie Isls.).

COMMENT: Considered conspecific with *doriferus* by Scheffer, 1958, Seals, sealions, and walruses, Stanford Univ. Press, 179 pp.
 PROTECTED STATUS: CITES - Appendix II as *Arctocephalus* spp.
 ISIS NUMBER: 5301413001001008001.

Callorhinus Gray, 1859. Proc. Zool. Soc. Lond., 1859:359.

ISIS NUMBER: 5301413001002000000.

Callorhinus ursinus (Linnaeus, 1758). Syst. Nat., 10th ed., 1:37.

TYPE LOCALITY: U.S.S.R., Commander Isls., Bering Isl.

DISTRIBUTION: North Pacific, in Okhotsk and Bering Seas; Commander and Pribilof Isls., south to Japan, Shantung (China)(SW), and S. California (U.S.A.).

ISIS NUMBER: 5301413001002001001.

Eumetopias Gill, 1866. Proc. Essex Inst. Salem, 5:7.

ISIS NUMBER: 5301413001003000000.

Eumetopias jubatus (Schreber, 1776). Säugethiere, 3:300, pl. 83B.

TYPE LOCALITY: "Northern part of the Pacific Ocean". U.S.S.R., Commander Isls., Bering Isl.

DISTRIBUTION: N. Pacific, from Hokkaido (Japan) to S. California (U.S.A.).

COMMENT: Type locality from Ognev, 1935, [Mamm. U.S.S.R., Adjac. Count.], 3:361; but see Heptner and Naumov, 1976, [Mammals of the Soviet Union], 2(3):718, who gave "E. coast of Kamchatka."

ISIS NUMBER: 5301413001003001001.

Neophoca Gray, 1866. Ann. Mag. Nat. Hist., ser. 3, p. 231.

COMMENT: Does not include *Phocartos*; see Rice, 1977; King, 1960, Mammalia, 24:445-456.

ISIS NUMBER: 5301413001004000000.

Neophoca cinerea (Peron, 1816). Voy. Terres. Austral., 2:54.

TYPE LOCALITY: Australia, South Australia, Kangaroo Isl.

DISTRIBUTION: Houtmans Abrolhos (Western Australia) to Kangaroo Isl. (South Australia).

ISIS NUMBER: 5301413001004001001.

Otaria Peron, 1816. Voy. Terres. Austral., 2:37.

ISIS NUMBER: 5301413001005000000.

Otaria byronia (Blainville, 1820). J. Phys. Chim. Hist. Nat. Arts Paris, 91:300.

TYPE LOCALITY: Probably Falkland Isls. (U.K.).

DISTRIBUTION: South American coasts from Peru to Uruguay; Falkland Isl. Occasionally north to coast of Brazil.

COMMENT: Includes *flavescens* as a synonym; see King, 1978, J. Mammal., 59:861; but also see Pine *et al.*, 1978, Mammalia, 42:110-111.

ISIS NUMBER: 5301413001005001001 as *O. flavescens*.

Phocartos Peters, 1866. Monatsb. Preuss. Akad. Wiss. Berlin, p. 269.

COMMENT: Some authors (Stains, 1967, in Anderson and Jones, p. 349; Corbet and Hill, 1980) include this genus in *Neophoca*; but see Rice, 1977, and King, 1960, Mammalia, 24:445-456.

ISIS NUMBER: 5301413001006000000.

Phocartos hookeri (Gray, 1844). Zool. Voy. H.M.S. "Erebus" and "Terror," 1:4.

TYPE LOCALITY: New Zealand, Auckland Isls. ("Falkland Isls. and Cape Horn," obviously an error).

DISTRIBUTION: Subantarctic islands of New Zealand.

ISIS NUMBER: 5301413001006001001.

Zalophus Gill, 1866. Proc. Essex Inst. Salem, 5:7.

COMMENT: Included in *Arctocephalus* by Van Gelder, 1977:13; but also see Hall, 1981:1059.

ISIS NUMBER: 5301413001007000000.

Zalophus californianus (Lesson, 1828). Dict. Class. Hist. Nat. Paris, 13:420.

TYPE LOCALITY: U.S.A., California, San Francisco Bay.

DISTRIBUTION: N. Pacific from Gulf of California (Mexico) to British Columbia (Canada); Japan; Galapagos Isls.

COMMENT: The subspecies *japonicus* may be extinct (TRL).

ISIS NUMBER: 5301413001007001001.

Family Odobenidae

REVIEWED BY: J. E. King (JEK); T. R. Loughlin (TRL); D. W. Rice (DWR); O. L. Rossolimo (OLR)(U.S.S.R.).

COMMENT: Hall, 1981:1061, considered Rosmarinae(=Odobenidae) a subfamily of Otariidae; but see Corbet, 1978:186, and Corbet and Hill, 1980:106.

Odobenus Brisson, 1762. Regn. Anim., 2nd ed., p. 30.

COMMENT: Although the names in Brisson, 1762 are invalid, *Odobenus* has been retained by Opinion 467 of the ICZN. Hall, 1981:1061, used the generic name *Rosmarus*.

ISIS NUMBER: 5301413001008000000.

Odobenus rosmarus (Linnaeus, 1758). Syst. Nat., 10th ed., 1:38.

TYPE LOCALITY: N. Atlantic.

DISTRIBUTION: Arctic seas; south as far as New England (U.S.A.), Great Britain, Scandinavia, Pribilof Isls., and Honshu (Japan) at least occasionally.

PROTECTED STATUS: CITES - Appendix III (Canada).

ISIS NUMBER: 5301413001008001001.

Family Phocidae

REVIEWED BY: J. E. King (JEK); D. W. Rice (DWR); O. L. Rossolimo (OLR)(U.S.S.R.); H. J. Stains (HJS).

ISIS NUMBER: 5301413002000000000.

Cystophora Nilsson, 1820. Skand. Faun. Dagg. Djur., 1:382.

ISIS NUMBER: 5301413002001000000.

Cystophora cristata (Erxleben, 1777). Syst. Regn. Anim., 1:590.

TYPE LOCALITY: S. Greenland and Newfoundland.

DISTRIBUTION: N. Atlantic and Arctic oceans, from Newfoundland (Canada) to S. Greenland, Svalbard and Novaya Zemlya (U.S.S.R.). Occasionally south to Portugal and Florida (U.S.A.).

ISIS NUMBER: 5301413002001001001.

Erignathus Gill, 1866. Proc. Essex Inst. Salem, 5:5.

ISIS NUMBER: 5301413002002000000.

Erignathus barbatus (Erxleben, 1777). Syst. Regn. Anim., 1:590.

TYPE LOCALITY: North Atlantic, S. Greenland.

DISTRIBUTION: Circumpolar Arctic seas, south to Hokkaido (Japan) and Newfoundland (Canada).

ISIS NUMBER: 5301413002002001001.

Halichoerus Nilsson, 1820. Skand. Faun. Dagg. Djur., 1:376.

ISIS NUMBER: 5301413002003000000.

Halichoerus grypus (Fabricius, 1791). Skr. Nat. Selsk. Copenhagen, 1(2):167.

TYPE LOCALITY: Greenland (Denmark).

DISTRIBUTION: Newfoundland area; Iceland; Britain; Norway; Kola Peninsula (U.S.S.R.).

ISIS NUMBER: 5301413002003001001.

Hydrurga Gistel, 1848. Nat. Thier. fur hoehere Schulen, p. xi.

ISIS NUMBER: 5301413002005000000.

Hydrurga leptonyx (Blainville, 1820). J. Phys. Chim. Hist. Nat. Arts Paris, 91:298.

TYPE LOCALITY: Falkland Isls. (U.K.).

DISTRIBUTION: Circumpolar, in southern oceans.

ISIS NUMBER: 5301413002005001001.

Leptonychotes Gill, 1872. Smithson. Misc. Coll., 11(230):70.

ISIS NUMBER: 5301413002006000000.

Leptonychotes weddelli (Lesson, 1826). Bull. Sci. Nat. Geol., 7:437.

TYPE LOCALITY: South Orkney Isl. (Br. Antarct. Trust Terr.).

DISTRIBUTION: Coastal areas of Antarctic continent. Occasionally north to South America, Australia, and New Zealand.

COMMENT: Reviewed by Stirling, 1971, Mamm. Species, 6:1-5, and Kooyman, 1981,

Weddell seal: Consummate diver. Cambridge Univ. Press, Cambridge, x + 135 pp.

ISIS NUMBER: 5301413002006001001.

Lobodon Gray, 1844. Zool. Voy. H.M.S. "Erebus" and "Terror," 1:2.

ISIS NUMBER: 5301413002007000000.

Lobodon carcinophagus (Hombron and Jacquinot, 1842). Voy. au Pole Sud...sur les corvettes L'Astrolabe et la Zelee, 1837-1840, Zoologie, pl. 10.

TYPE LOCALITY: Scotia Sea (midway between South Orkney and South Sandwich Isls.) (Br. Antarct. Trust Terr.).

DISTRIBUTION: Antarctic seas, frequently on pack ice around Antarctic Continent.

ISIS NUMBER: 5301413002007001001.

Mirounga Gray, 1827. In Griffith's Cuvier Anim. Kingd., 5:179.

ISIS NUMBER: 5301413002008000000.

Mirounga angustirostris (Gill, 1866). Proc. Essex Inst. Salem, 5:13.

TYPE LOCALITY: Mexico, Baja California, Bahia Tortola.

DISTRIBUTION: S.E. Alaska to California (U.S.A.) and Baja California (Mexico).

PROTECTED STATUS: CITES - Appendix II.

ISIS NUMBER: 5301413002008001001.

Mirounga leonina (Linnaeus, 1758). Syst. Nat., 10th ed., 1:37.

TYPE LOCALITY: Juan Fernandez Isls., Robinson Crusoe Isl. (Chile).

DISTRIBUTION: Subantarctic islands, including Macquarie, Kerguelen, and S. Georgia Isls. Formerly Juan Fernandez Isls.

PROTECTED STATUS: CITES - Appendix II.

ISIS NUMBER: 5301413002008002001.

Monachus Fleming, 1822. Philos. Zool., 2:187.

PROTECTED STATUS: CITES - Appendix I as *Monachus* spp.

ISIS NUMBER: 5301413002009000000.

Monachus monachus (Hermann, 1779). Beschäft. Berlin Ges. Naturforsch. Fr., 4:501.

TYPE LOCALITY: Yugoslavia, Dalmacija (=Dalmatia), Cherso Isl.

DISTRIBUTION: Mediterranean and Black Seas; N.W. Africa to Cape Blanc.

PROTECTED STATUS: CITES - Appendix I as *Monachus* spp. and U.S. ESA - Endangered as *Monachus monachus*.

ISIS NUMBER: 5301413002009001001.

Monachus schauinslandi Matschie, 1905. Sitzb. Ges. Naturf. Fr. Berlin, p. 258.

TYPE LOCALITY: U.S.A., Hawaii, Laysan Isl.

DISTRIBUTION: N.W. Hawaiian Isls., from Nihoa to Kure.

PROTECTED STATUS: CITES - Appendix I as *Monachus* spp. and U.S. ESA - Endangered as *Monachus schauinslandi*.

ISIS NUMBER: 5301413002009002001.

Monachus tropicalis (Gray, 1850). Cat. Spec. Mamm. Coll. Br. Mus., Part 2, p. 28.

TYPE LOCALITY: Jamaica, Pedro Cays, 80 km. south of Jamaica.

DISTRIBUTION: Caribbean Sea and Yucatan.

COMMENT: "Extinct since the early 1950's;" see Kenyon, 1977, J. Mammal., 58:98.
 PROTECTED STATUS: CITES - Appendix I as *Monachus* spp. and U.S. ESA - Endangered
 as *Monachus tropicalis*.
 ISIS NUMBER: 5301413002009003001.

Ommatophoca Gray, 1844. Zool. Voy. H.M.S. "Erebus" and "Terror," 1:3.
 ISIS NUMBER: 5301413002010000000.

Ommatophoca rossi Gray, 1844. Zool. Voy. H.M.S. "Erebus" and "Terror," 1:3.
 TYPE LOCALITY: Antarctica, Ross Sea.
 DISTRIBUTION: Circumpolar, Antarctic pack ice, particularly King Haakon VII Sea.
 ISIS NUMBER: 5301413002010001001.

Phoca Linnaeus, 1758. Syst. Nat., 10th ed., 1:37.

REVIEWED BY: M. Nishiwaki (MN).

COMMENT: Includes *Pusa*, *Histiophoca*, and *Pagophilus*; see Burns and Fay, 1970, J. Zool. Lond., 161:363-394; Rice, 1977:12-13; Gromov and Baranova, 1981:297-300; but also see Corbet, 1978:187, and Corbet and Hill, 1980:107, who considered *Histiophoca* and *Pagophilus* distinct genera, as did Hall, 1981, who also separated *Pusa*. MN considers these to be distinct genera, but OLR, DWR, and JEK do not.
 ISIS NUMBER: 5301413002004000000.

Phoca caspica Gmelin, 1788. In Linnaeus, Syst. Nat., 13th ed., 1:64.

TYPE LOCALITY: U.S.S.R., Caspian Sea.

DISTRIBUTION: Caspian Sea (U.S.S.R.).

ISIS NUMBER: 5301413002004001001.

Phoca fasciata Zimmermann, 1783. Geogr. Gesch. Mensch. Vierf. Thiere, 3:277.

TYPE LOCALITY: U.S.S.R., Kurile Isls.

DISTRIBUTION: Okhotsk, W. Bering, Chukchi and Japan Seas.

COMMENT: Formerly in *Histiophoca*; see Burns and Fay, 1970, J. Zool. Lond., 161:363-394; but also see Corbet, 1978:187.

ISIS NUMBER: 5301413002004002001.

Phoca groenlandica Erxleben, 1777. Syst. Regn. Anim., 1:588.

TYPE LOCALITY: Greenland and Newfoundland (Canada).

DISTRIBUTION: N. Atlantic and Arctic oceans from E. Canada to the White Sea (U.S.S.R.).

COMMENT: Formerly included in *Pagophilus*; see Burns and Fay, 1970, J. Zool. Lond., 161:363-394; but also see Corbet, 1978:187.

ISIS NUMBER: 5301413002004003001 as *P. groenlandicus* (sic).

Phoca hispida Schreber, 1775. Säugethiere, 3:86.

TYPE LOCALITY: Coasts of Greenland and Labrador (Canada).

DISTRIBUTION: Arctic Ocean, Okhotsk, Bering, and Baltic Seas; Lakes Saimaa (Finland) and Ladoga (U.S.S.R.); Nettilling Lake, Baffin Isl. (Canada).

COMMENT: Formerly included in *Pusa*; see Burns and Fay, 1970, J. Zool. Lond., 161:363-394; but also see Corbet, 1978:187.

ISIS NUMBER: 5301413002004004001.

Phoca largha Pallas, 1811. Zoogr. Rosso-Asiat., 1:113.

TYPE LOCALITY: U.S.S.R., E. Kamchatka.

DISTRIBUTION: Associated with pack ice in coastal N. Pacific, Bering and Okhotsk Seas, Aleutian Isls.; south to Kiangsu (China)(SW) and Japan; Aleutian Isls.

COMMENT: Includes *P. insularis* Belkin, 1964; see review by Shaughnessy and Fay, 1977, J. Zool. Lond., 182:385-419; *largha* was considered a subspecies of *vitulina* by Hall, 1981:1181, and many earlier authors.

ISIS NUMBER: 5301413002004006001.

Phoca sibirica Gmelin, 1788. In Linnaeus, Syst. Nat., 13th ed., 1:64.

TYPE LOCALITY: U.S.S.R., Lake Baikal; and "Lake Oron."

DISTRIBUTION: Lake Baikal (U.S.S.R.).

COMMENT: Does not occur in Lake Oron; see Scheffer, 1958, Seals, sealions, and walruses, Stanford Univ. Press, p. 101.

ISIS NUMBER: 5301413002004007001.

Phoca vitulina Linnaeus, 1758. Syst. Nat., 10th ed., 1:38.

TYPE LOCALITY: Baltic Sea, Gulf of Bothnia.

DISTRIBUTION: Kurile Isls.; Kamchatka; south to Kiangsu (China)(SW); Alaska to Mexico; Greenland and E. Canada to N.E. U.S.A.; Iceland; Britain and Europe; Seal Lakes, Ungava Pen. (Canada); Iliamna Lake, Alaska (U.S.A.).

COMMENT: Includes *kurilensis* and *richardsi*; see Shaughnessy and Fay, 1977, J. Zool. Lond., 182:385-419.

ISIS NUMBER: 5301413002004008001 as *P. vitulina*.

5301413002004005001 as *P. kurilensis*.