

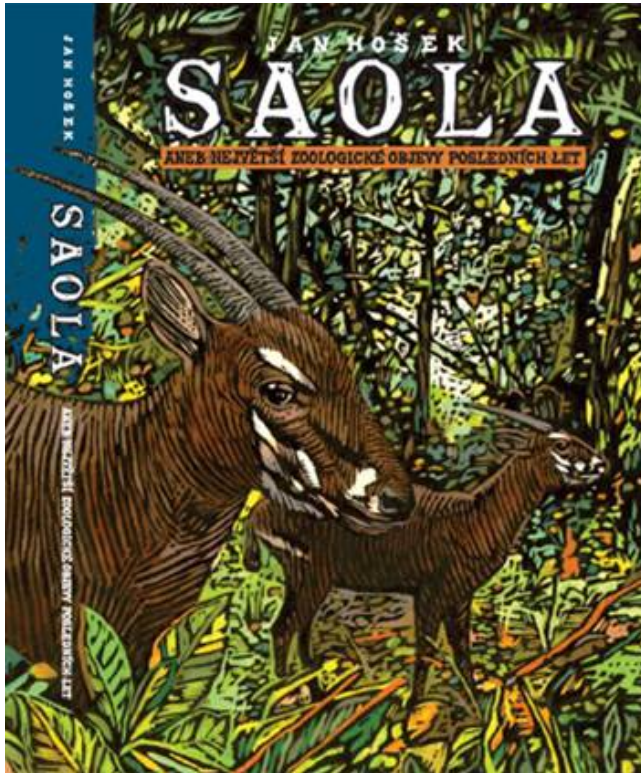


Mammaliologie

II. Diverzita savců



5 416 recentních druhů (2009)

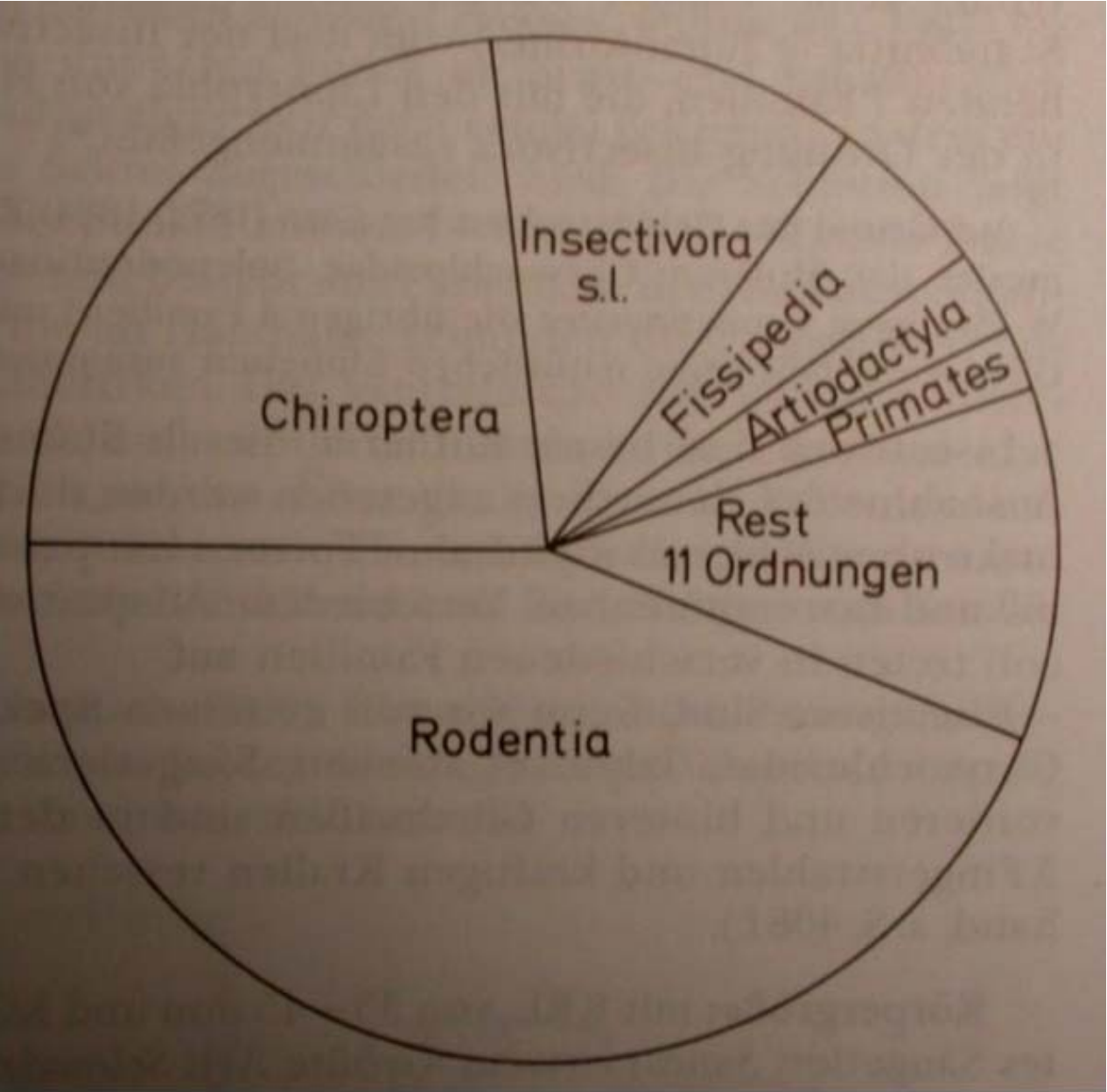


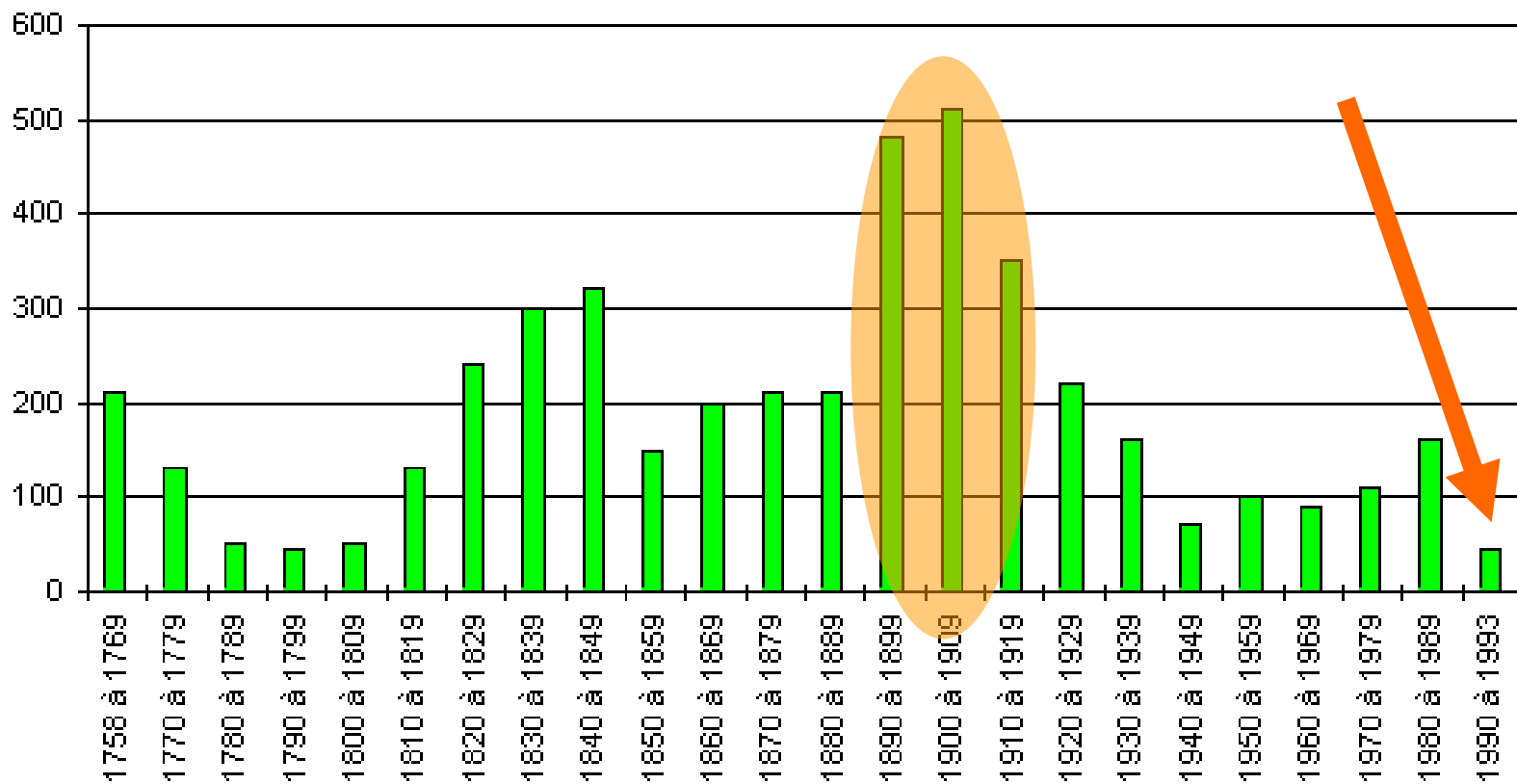
Nové objevy, popisy a nálezy
New discoveries, descriptions and finds

Podle:

Jan Hošek, 2007: Saola aneb
největší zoologické objevy
posledních let.
Scientia, Praha 2007, 215 str.

<i>skupina</i>	<i>odhad počtu známých druhů</i>	<i>počet vymřelých druhů</i>	<i>počet ohrožených druhů</i>
savci (Mammalia)	5416	70	1093
ptáci (Aves)	9934	135	1206
plazi („Reptilia“)	8240	22	341
obojživelníci (Amphibia)	5918	34	1811
svaloploutví (Sarcopterygii)	8	0	1
paprskoploutvé ryby (Actinopterygii)	26848	80	1058
paryby (Chondrichthyes)	970	0	110
kruhoústí (Cyclostomata)	108	0	2
celkem	57442	342	5621





„ZLATÝ VĚK OBJEVŮ“

AFRIKA

- 1901 *Okapia johnstoni* - okapi
- 1902 *Gorilla gorilla beringei* - g. horská
Afrika - Kongo, Rwanda, Uganda - pohoří Virunga
- 1904 *Hylochoerus meinertzhageni* - prase pralesní
Afrika, tropy
- 1910 *Tragelaphus buxtoni* - nyala horská, J-Etiopie



Kopytníci od roku 1900 (Ungulates)

1901

okapi pruhovaná (*Okapia johnstoni*) - Kongo, Uganda (Giraffidae)
mazama yucatánský (*Mazama pandora*) - Mexiko (Cervidae)
chocholotka Weynsova (*Cephalophus weynsi*) - Afrika (Bovidae)
chocholotka ruwensorská (*Cephalophus rubidus*)



1903

antilopka zakrská (*Neotragus batesi*) - rovníková Afrika (Bovidae)

1904

prase pralesní (*Hylochoerus meinertzhageni*) - tropická Afr. (Suidae)

1908

mazama venezuelský (*Mazama bricenii*) - J Amerika (Cervidae)

1910

nyala horská (*Tragelaphus buxtoni*) - J Etiopie (Bovidae)

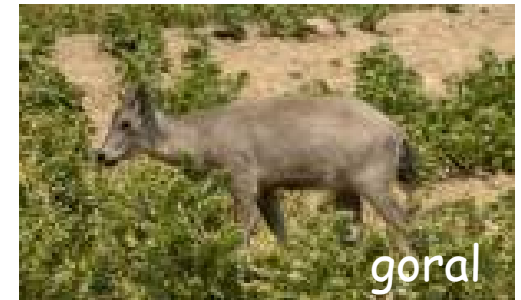
anoa horský (*Bubalus quarlesi*) - Celebes (Sulawesi) (Bovidae)

1911

dikdik somálský (*Madoqua piacentinii*) - Somálsko (Bovidae)

1914

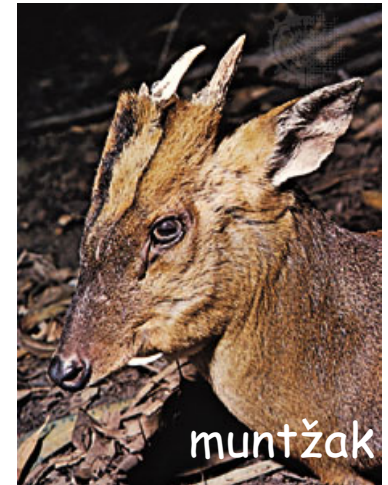
goral červený (*Nemorhaedus baileyi*) - Tibet, Barma (Bovidae)



- 1918 chocholotka zanzibarská (*Cephalophus adersi*) - V Afrika
 1929 kabar Berezovského (*Moschus berezovskii*) - J Čína, S Vietnam
 (Moschidae)



- 1930 pekari Wagnerův (*Catagonus wagneri*), fosilie,
 objev 1974, Lazarus taxon, J Am (Tayassuidae)
 1932 muntžak Roosevelťův (*Muntiacus rooseveltorum*)
 - J Asie (Cervidae)
 1935 gazela dlouhorohá (*Gazella saudiya*), Ex, Arabský
 poloostrov (Bovidae)
 1937 **kuprej (*Bos sauveli*)** - Zadní Indie (Bovidae)
 1959 mazama zakrslý (*Mazama chunyi*) - Bolívie
 (Cervidae)
 1963 nahur Schaeferův (*Pseudois schaeferi*)
 - hory, Jang-c'-t'iang, Čína (Bovidae)



- 1981 kabar čínský (*Moschus fuscus*) - Čína (Bovidae)
- 1982 muntžak žlutý (*Muntiacus atherodes*) - Borneo (Cervidae)
- 1985 gazela jemenská (*Gazella bilkis*) - Jemen (Bovidae)
- 1987 prase floreské (*Sus heureni*) - J Asie (Suidae)
- 1990 muntžak gongšanský (*Muntiacus gongshanensis*) - J Asie (Tibet, Čína), (Cervidae)
- 1993 saola (*Pseudoryx nghetinhensis*) - Vietnam-Laos (Bovidae)
- 1994 muntžak obrovský (*Megamuntiacus vuquangensis*) - Vietnam-Laos (Cervidae)
- lyrorožec - ling (*Pseudonovibos spiralis*) - Vietnam, Kambodža (Bovidae)
- 1996 mazama bororo (*Mazama bororo*) - JV Brazílie (Cervidae)
- 1997 muntžak černý (*Muntiacus truongsongensis*) - stř. Vietnam (Cervidae)
- 1999 muntžak listový (*Muntiacus putaoensis*) - Myanmar (Barma) (Cervidae)
- 2003 buvolec zambijský (*Damaliscus superstes*) - Zambie, Kongo (Bovidae)
- 2005 kančil cejlonský (*Moschiola kathygre*) - Sri Lanka (Tragulidae - kančilovití)
- voduška konžská (*Cobus anelli*) - Kongo (Bovidae)
- 2008 jelínek mazamu (*Mazama ochroleuca*) - Amazónie (Brazílie)(Cervidae)



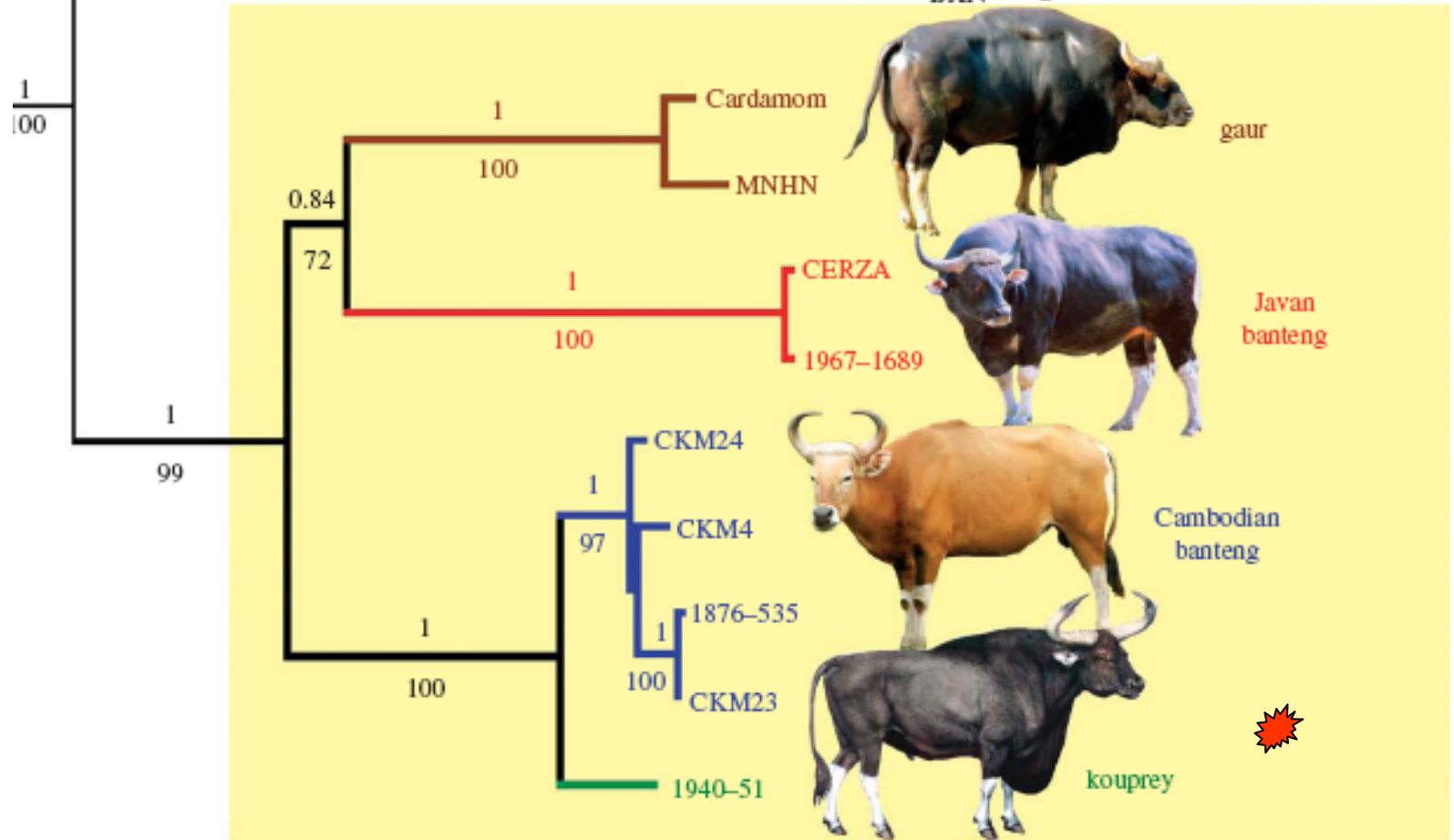
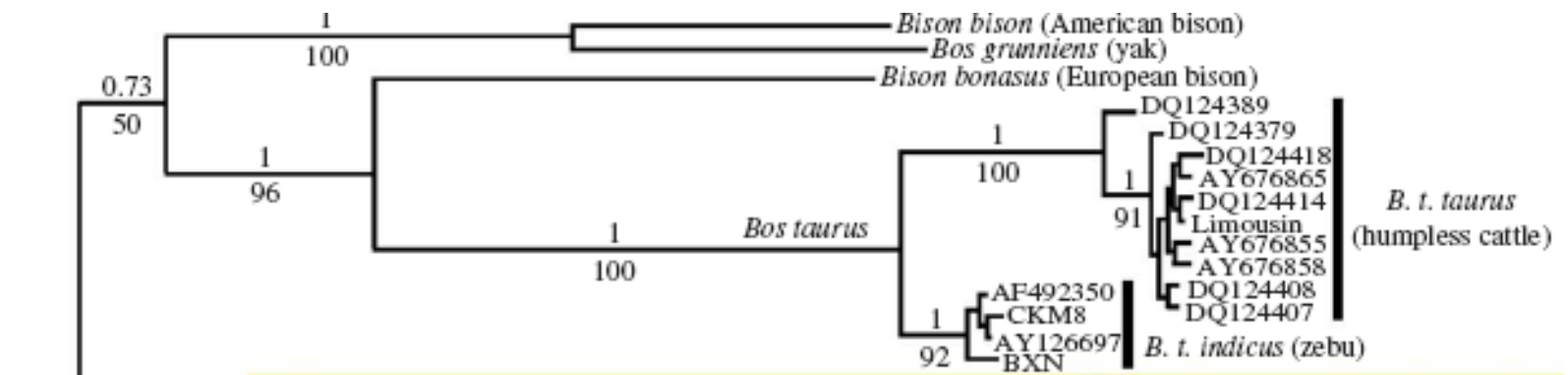
kančil

1937

Bos sauveli

kuprej





21.V.1992

16:00

Vietnam

Pseudoryx nghetinhensis - saola



letters to nature

Nature 363, 443 - 445 (03 June 1993); doi:10.1038/363443a0

A new species of living bovid from Vietnam

VU WANGUNG, PHAM BONG QUOC, NGUYEN NGOC CHINH, DOT LUOC, PETER ARCTANDERA JOHN MACKINNON

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To whom correspondence should be addressed.

IN May 1992 a joint survey by the Ministry of Forestry and World Wide Fund for Nature of the Vu Quang Nature Reserve, Ha Tinh province, found three sets of long straight horns of a new bovid (Mammalia, Artiodactyla) in hunters' houses¹. None of the specimens had dentition. On four follow-up visits by Vietnamese scientists new specimens were discovered and surveys of forests in neighbouring Nghe an province revealed more localities and some partial specimens. In all, we have examined more than 20 specimens. Three have complete upper skulls and dentitions, two have lower jaws and dentitions. Three complete skins have been collected. The specimens are distinct in appearance, morphology and DNA sequence and cannot be ascribed to any known genus. Only two bovid genera are known from this part of Asia, *Bos* and *Maemorhedus* = *Capricornis*^{2,3}. A new genus and species are therefore



Muntiacus vuquangensis - muntžak obrovský 1994



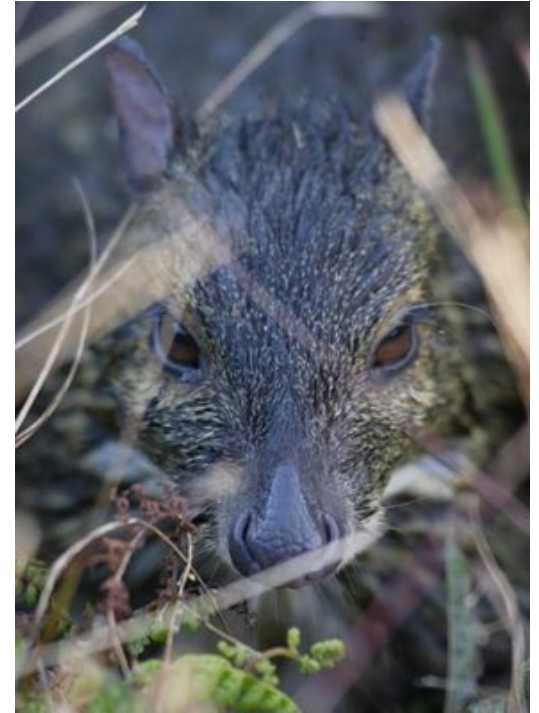
Muntiacus truongsonensis - muntžak černý 1997



Muntiacus putaoensis - muntžak listový 1999



Pseudonovibos spiralis - ling 1994



Moschiola kathygre - kančil cejlonský 2005

Kytovci od roku 1900 (Cetacean, Whales)

- 1908 vorvaňovec australský (*Mesoplodon bowdoini*)
- 1912 sviňucha jižní (*Australophocaena dioptrica*)
- 1913 vorvaňovec tmavý (*Mesoplodon mirus*)
- 1918 delfínovec čínský (*Lipotes vexillifer*)
- 1926 vorvaňovec Longmanův (*Indocetus pacificus*)
- 1934 delfín Graffmanův (*Stenella graffmani*)
- 1937 vorvaňovec Shepherdův (*Tasmacetus shepherdi*)
- 1956 plískavice saravacká (*Lagenodelphis hosei*)
- 1958 vorvaňovec japonský (*Mesoplodon ginkodens*)
sviňucha kalifornská (*Phocoena sinus*)
- 1963 vorvaňovec kalifornský (*Mesoplodon carlhubbsi*)
- 1991 vorvaňovec peruánský (*Mesoplodon peruvianus*)
- 2002 vorvaňovec Perrinův (*Mesoplodon perrini*) - DNA
- 2003 plejtvák Omurův (*Balaenoptera amurai*) - DNA
- 2005 orcela tupoploutvá (*Orcaella heinsohni*)

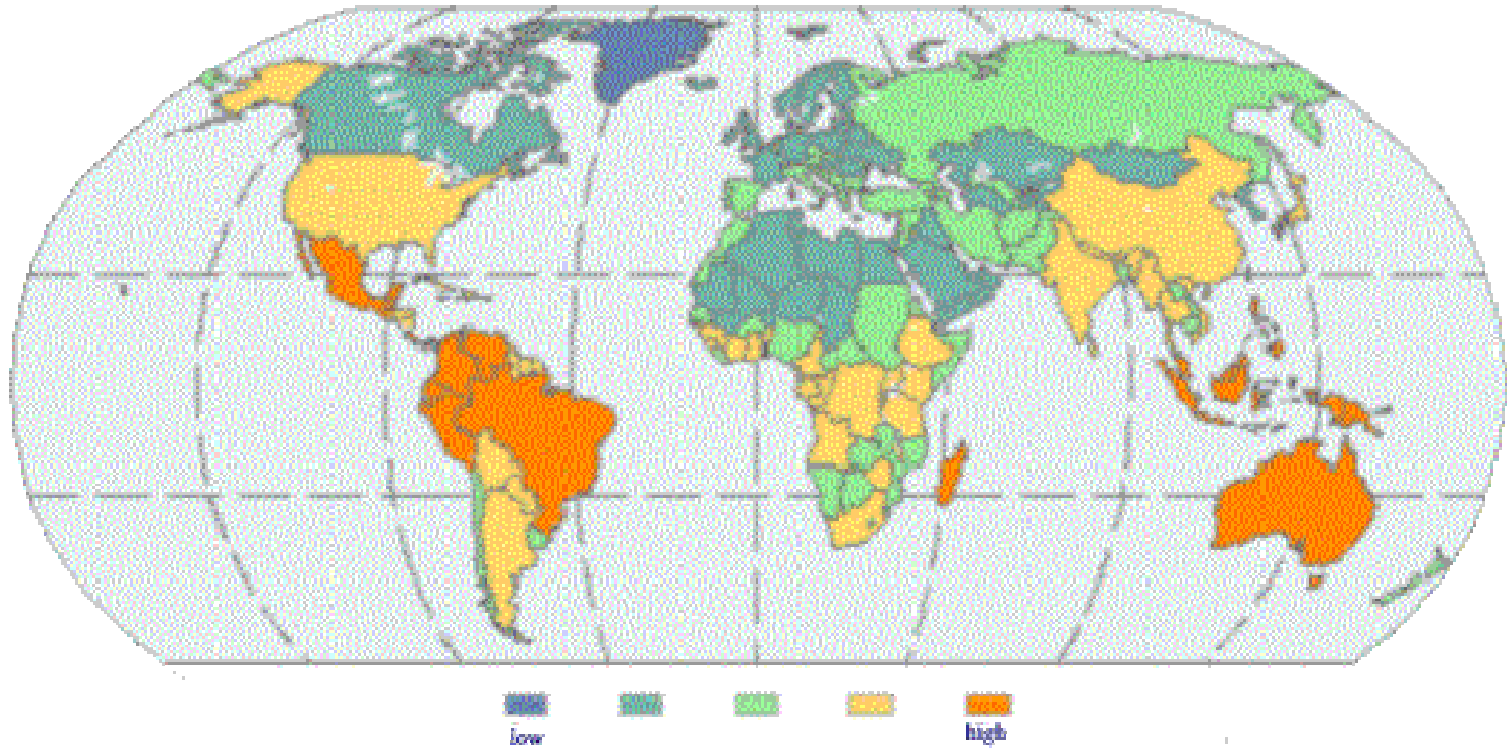
Letouni po roce 2000

2000	3 druhy
2001	6 druhů, v Evropě <i>Myotis alcathoe</i> - netopýr <i>Alcathoe</i> (menší, nymfin)
2002	8 druhů
2003	3 druhy
2004	10 druhů, <i>Plecotus gaisleri</i> - S Afrika, <i>Pipistrellus hanaki</i> - Libye
2005	13 druhů
2006	9 druhů
2007	1 druh

Ostatní savci po roce 1990

1995	prase vietnamské (<i>Sus bucculentus</i>)- Laos, popis 1892, Lazarus taxon králík Timminsův (<i>Nesolagus timminsi</i>) - Laos
1996	khanyou (<i>Laonastes aenigmaemus</i>) - stř. Laos - skalní krysa (Laonastidae), Lazarus taxon, bazální linie hystericognátních hlodavců
1997	langur duk (<i>Pygathrix nemaeus</i>) - Vietnam (Cercopithecidae) cibetka tainguenská (<i>Viverra zibetha</i>) - Vietnam, Annamity
2001	slon pralesní (<i>Loxodonta cyclotis</i>) - kryptický druh, DNA, dnes nepřijímán

BIODIVERZITA



SAVCI - distribuce nových druhů objevených po 1992

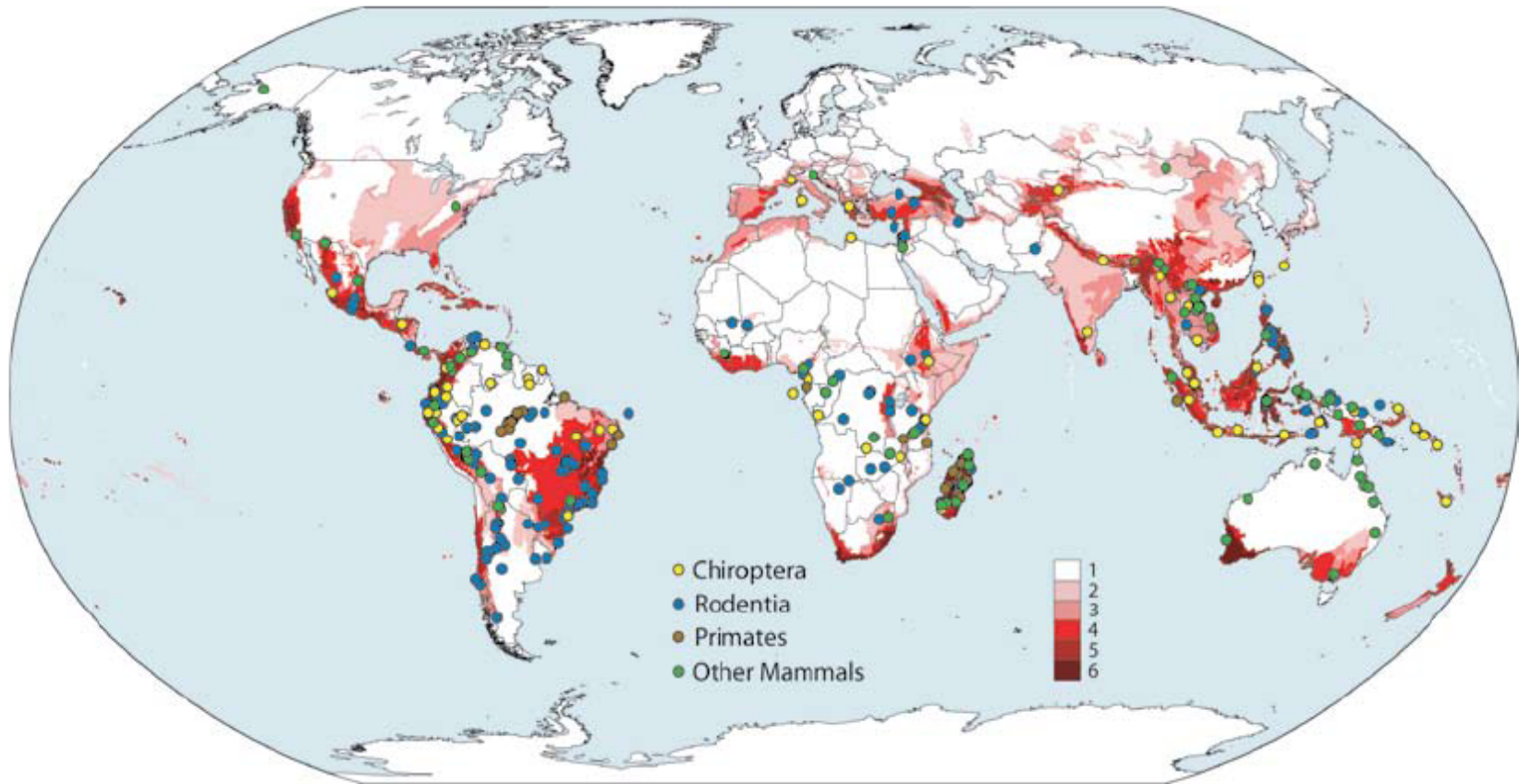


Figure 2. Global distribution of new mammals described since 1992. The distribution is overlaid on currently recognized regions of high threat and irreplaceability. Variable levels of shading indicate the number of global biodiversity conservation templates that prioritize the region (Brooks et al. 2005).

Jižní Amerika

Primáti

1998 *Callithrix humilis* - kosman (*Callithrichidae*, drápkaté opice)

2000 *Callithrix manicorensis*

Callithrix acariensis

2003 *Callicebus bernhardi* - titi (*Cebidae* - malpovití)

Calicebus stephennashi

? *Callicebus sp.nov.* 1

Callicebus sp.nov. 2

Pithecia sp.nov. 1 - chvostan

Pithecia sp.nov. 2

Saguinus sp.nov. 1 - tamarín

Saguinus sp.nov. 2

Ateles sp.nov. 1 - chápan

Ateles sp.nov. 2

Cacajao sp.nov. - uakari

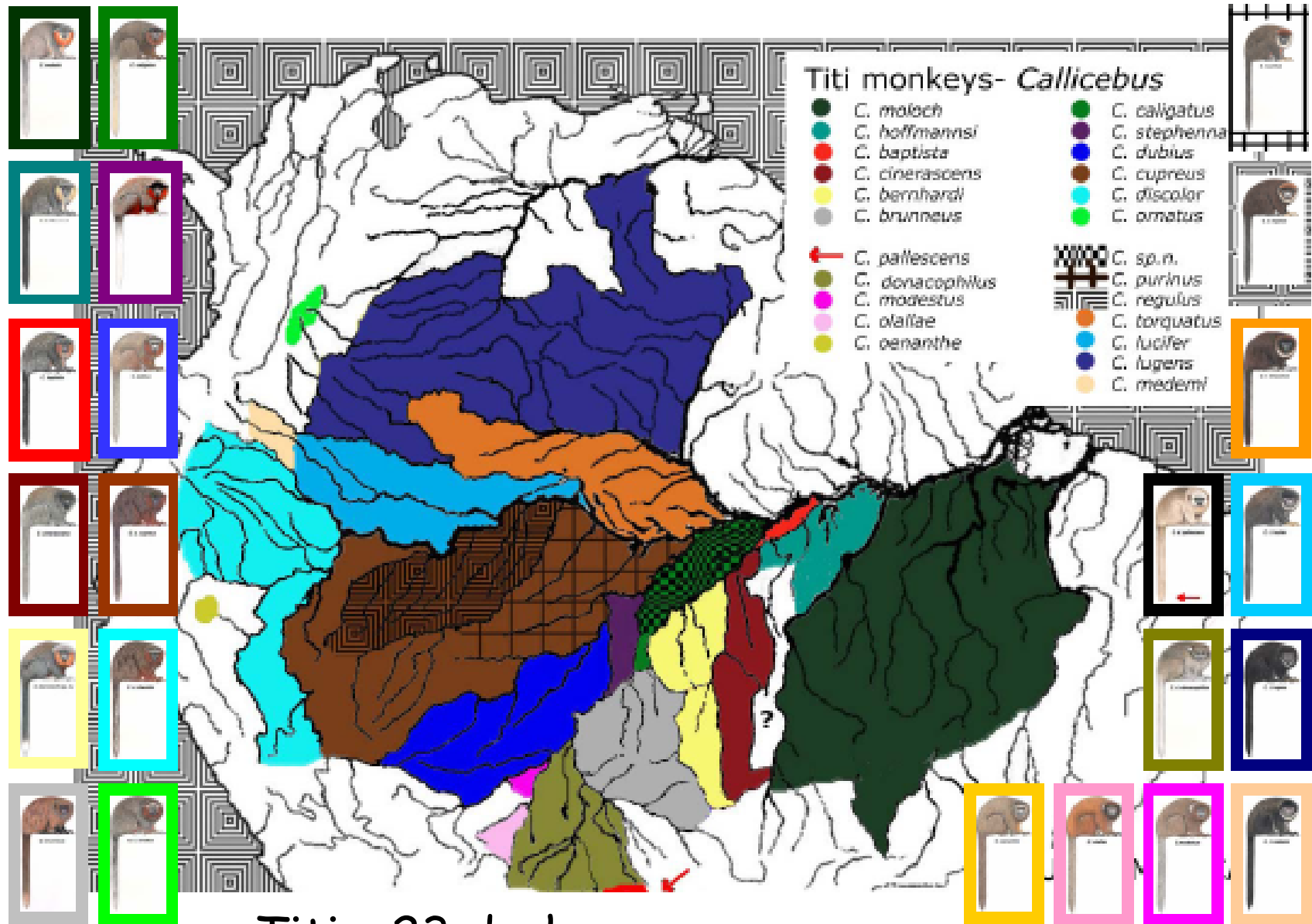
Lagothrix sp.nov. 1 - chápan

Lagothrix sp.nov. 2

Callithrix sp.nov. - kosman

Callicebus sp. nov. - titi

Saimiri sp.nov. - kotul



Titi - 23 druhy

Ostatní

Agouti sp. nov. - paka (Agoutidae)

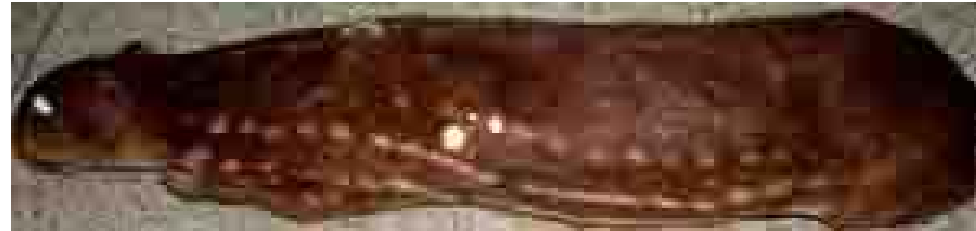
Eira sp. nov. - hyrare, brazilská kuna (Mustelidae)

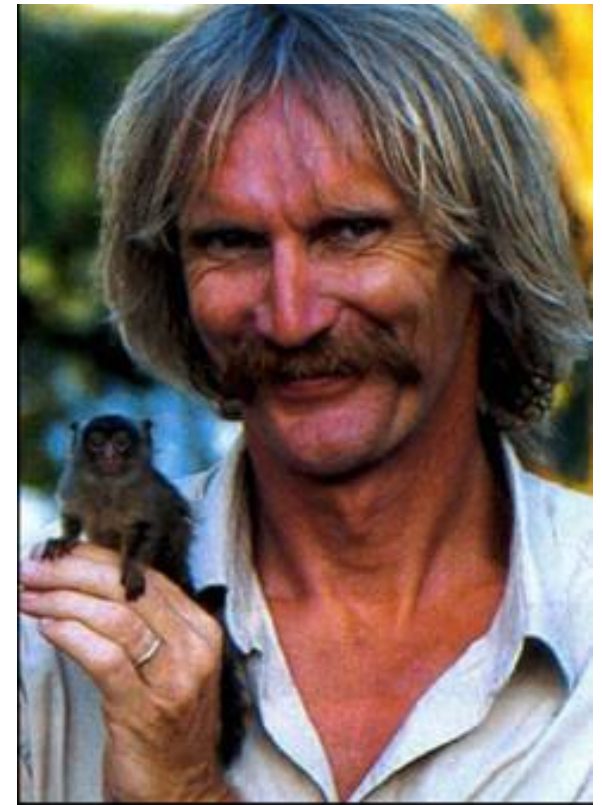
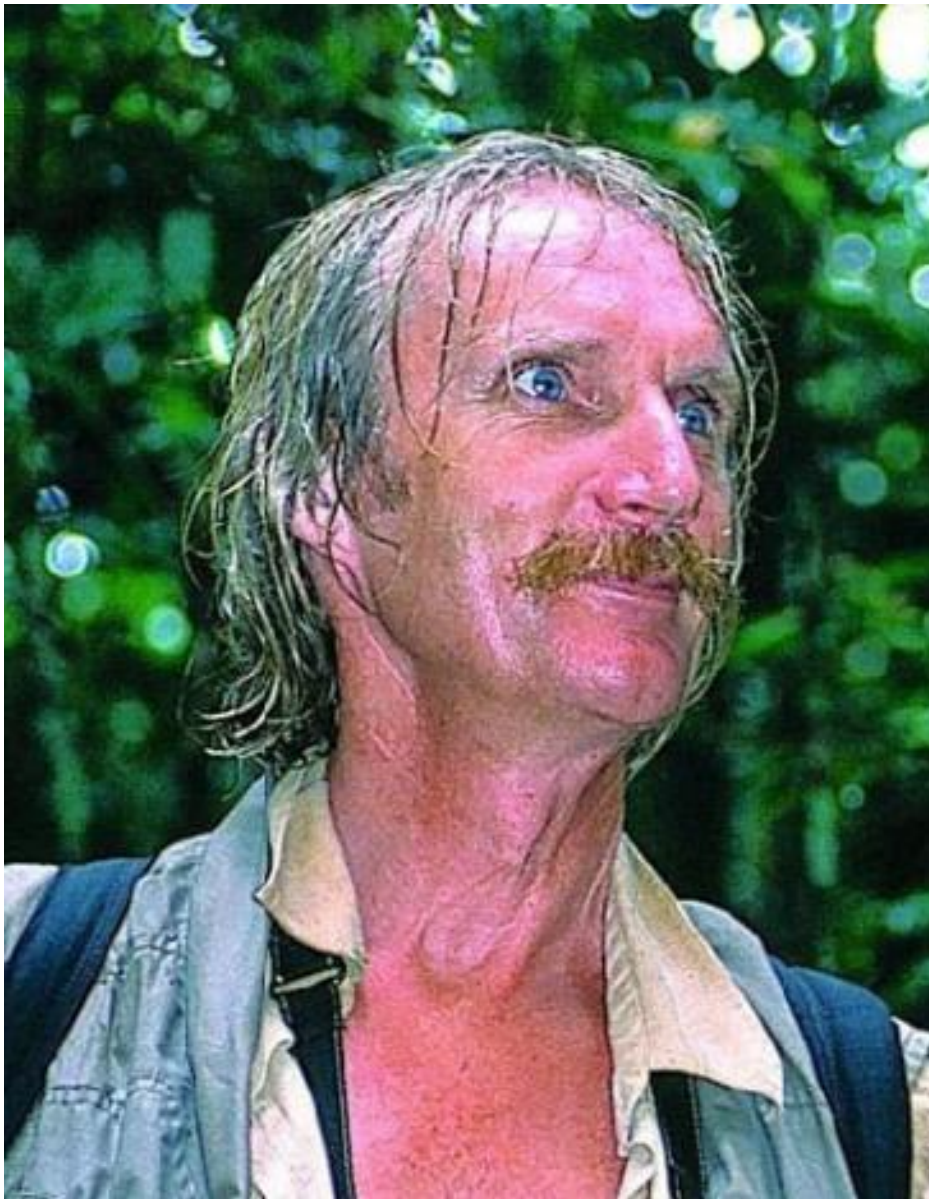
Nasua sp. nov. - nosál (Procyonidae)

Myrmecophaga sp. nov. - mravenečník (Myrmecophagidae)

Pteronura sp. nov. - vydra (Mustelidae)

Panthera sp. nov. - jaguár (Felidae)





Marc van Roosmalen

24.7. 1947, Tilburg, Holand'an žijící v brazilském Manau, primatolog

<http://www.marcvanroosmalen.org/news.htm>



marcvanroosmalen.org

ENTER

NAMED NEW SPECIES

Black-crowned dwarf marmoset

Callibella humilis

Rio Acarí Amazonian marmoset

Mico (Callithrix) acariensis

Satarè Amazonian marmoset

Mico (Callithrix) saterei

Rio Manicoré Amazonian marmoset

Mico (Callithrix) manicorensis

Stephen Nash's titi monkey

Callicebus stephennashi

HRH Prince Bernhard's titi

monkey *Callicebus bernhardi*

Giant collared peccary

Pecari maximus

Van Roosmalen's dwarf porcupine

Sphiggurus roosmalenorum

Dwarf manatee

Trichechus pygmaeus sp. nov.

Lecythidaceae (Brazilnut Family)

Lecythis oldemani sp. nov.

Black dwarf lowland tapir

Tapirus pygmaeus sp. nov.

Van Tienhoven's fair brocket deer

Mazama tienhoveni sp. nov.

NEW SPECIES SEARCH

Arboreal giant anteater - *Myrmecophaga sp. nov.*

White-throated black jaguar - *Panthera sp. nov.*

Black giant otter - *Pteronura sp. nov.*

Orange coati-mundè - *Nasua sp. nov.*

Orange tayra - *Eira sp. nov.*

Black woolly monkey - *Lagothrix sp. nov.*

Cruz Lima's saddleback tamarin monkey

Saguinus (fuscicollis) cruzlimai sp. nov.

Rio Pauini white bald-headed uacari

Cacajao (calvus) sp. nov.

Rio Aripuanã green-backed squirrel monkey

Saimiri (ustus) sp. nov.

Rio Mamurú titi monkey - *Callicebus (moloch) sp. nov.*

Upper Xingú Amazonian marmoset monkey

Mico (Callithrix) sp. nov.

Orange woolly monkey - *Lagothrix sp. nov.*

Long-limbed black spider monkey - *Ateles sp. nov.*

Silvery bellied spider monkey - *Ateles sp. nov.*

Eastern saddleback tamarin monkey

Saguinus (fuscicollis) orientalis sp. nov.

Rio Purús collared titi monkey *Callicebus (torquatus) sp. nov.*

Upper Rio Xingú titi monkey - *Callicebus (moloch) sp. nov.*

Grey saki monkey - *Pithecia sp. nov.*

Southbank Rio Negro saki monkey

Pithecia (Pithecia) sp. nov.

A NEW SPECIES OF LIVING PECCARY (MAMMALIA: TAYASSUIDAE)
FROM THE BRAZILIAN AMAZON

Marc G. M. VAN ROOSMALEN, Lothar FRENZ, Pim VAN HOOFT, Hans H. DE IONGH & Herwig LEIRS



Pecari maximus 2007 - největší pekari

A NEW SPECIES OF LIVING MANATEE FROM THE AMAZON

Shallow clear-water adapted dwarf manatee is already on the verge of extinction

Marc G.M. van Roosmalen¹, Pim van Hooft² & Hans H. de Iongh³

¹ AAPA Manaus-Amazonas, Brazil

² Wageningen University and Research Centre, Resource Ecology Group, Bornsesteeg 69, 6708PD
Wageningen, The Netherlands

³ Leiden University, Institute of Environmental Sciences, PO Box 9518, 2300RA Leiden, The Netherlands



(LEFT) The Rio Arauazinho harbors dwarf manatee and numerous other new mega-fauna species. Marc proposes this be the cornerstone for a new Brazilian National Park.



Trichechus bernhardi 2007

- nejmenší kapustňák

A NEW SPECIES OF LIVING BROCKET DEER
(MAMMALIA: CERVIDAE) FROM THE BRAZILIAN AMAZON

Marc G. M. VAN ROOSMALEN & Pim VAN HOOFT



(LEFT) *Mazama ochroleuca* sp. nov. redrawn from plate depicting *Mazama (gouazoupira) nemorivaga* (Eisenberg, 1989).

(ABOVE) Two spikes of *Mazama americana* above, one of *Mazama ochroleuca* sp. nov. below.

Here we report on the existence of a new species of even-toed ungulate in the Brazilian Amazon, which we name *Mazama ochroleuca* sp. nov., the fair brocket deer. It is intermediate in size between the two known species of brocket deer, *Mazama americana* and *Mazama (gouazoupira) nemorivaga*, and occurs in sympatry with both. Preliminary mitochondrial partial cytochrome b sequences of fair brocket deer compared with that of the sympatric and morphologically most related grey brocket deer {*Mazama (gouazoupira) nemorivaga*} revealed a sequence difference of 3.7%. Divergence time is therefore estimated at 1.0 million years before present. As in other brocket deer, fair brocket deer seem to live solitary or in pairs. In view of recent developments in the Rio Aripuanã basin where it lives and due to its limited distribution, we consider the fair brocket deer highly endangered.

KEY WORDS

New species, Artiodactyla, Cervidae, *Mazama ochroleuca* sp. nov., fair brocket deer, Brazilian Amazon

Mazama ochroleuca 2008

A NEW SPECIES OF LIVING LOWLAND TAPIR
(MAMMALIA: TAPIRIDAE) FROM THE BRAZILIAN AMAZON

Marc G.M. van Roosmalen / AAPN Manaus-Amazonas, Brazil



(LEFT) Adapted rendering of a black dwarf lowland tapir.
(ABOVE) On the left a skull of Brazilian lowland tapir, on the right the skull of black dwarf lowland tapir.

Here we report on the existence of a new species of odd-toed ungulate in the Brazilian Amazon, which we name *Tapirus pygmaeus sp. nov.*, the black dwarf lowland tapir. It is much smaller than the since long known Brazilian lowland tapir, *Tapirus terrestris*. As in other tapirs, dwarf tapirs seem to live solitary or in pairs. In view of recent developments in the interfluves where it lives and due to its limited distribution and apparent rariness, we consider the dwarf tapir highly endangered.

KEY WORDS

New species, Perissodactyla, Tapiridae, *Tapirus pygmaeus sp. nov.*, black dwarf lowland tapir, Brazilian Amazon

Tapirus pygmaeus 2008 - nejmenší tapír

Současné tempo popisování nových druhů

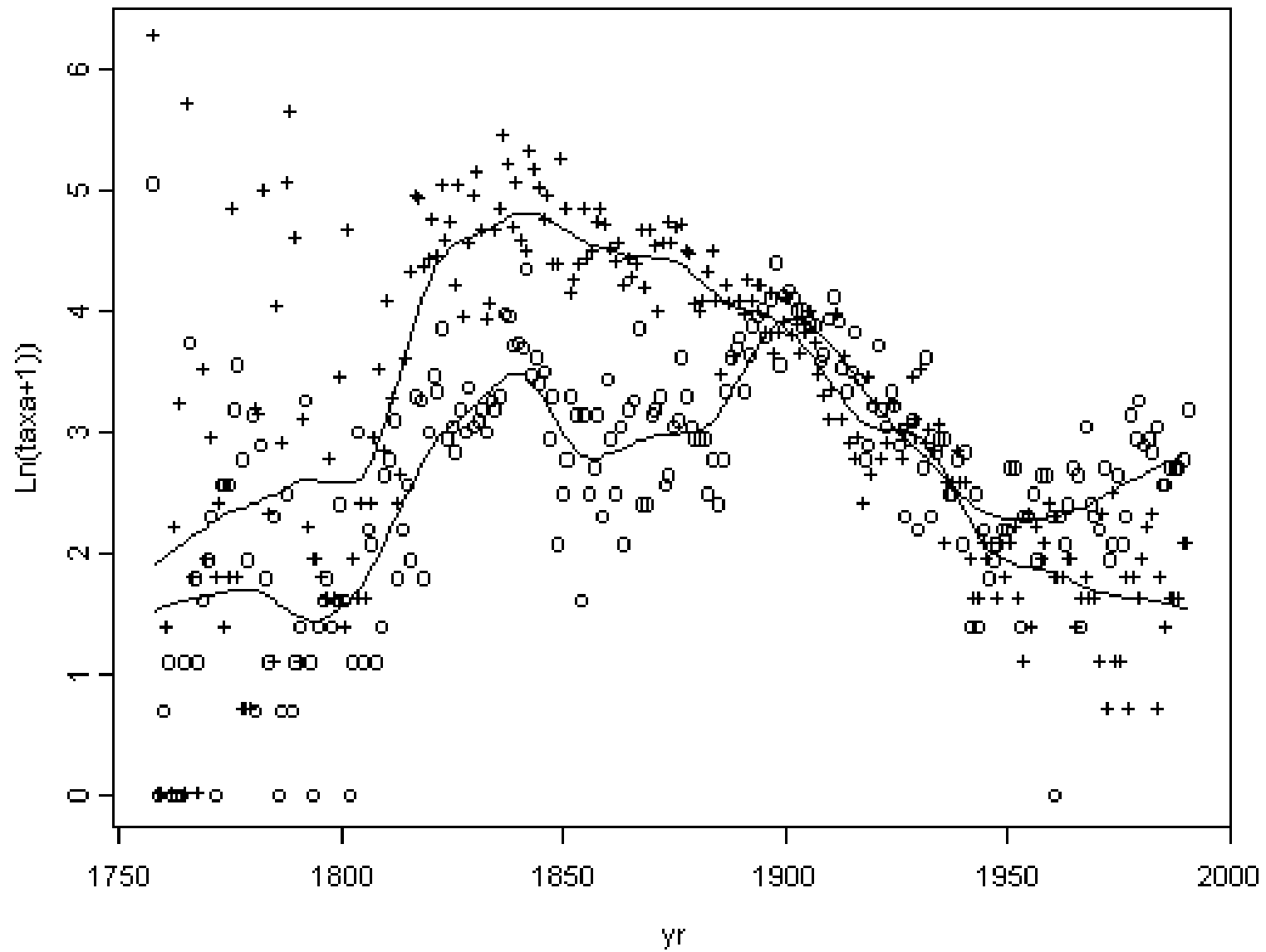
- RYBY cca 150 druhů ročně
- OBOJŽIVELNÍCI cca 70 druhů ročně
- PTÁCI cca 5 - 10 druhů ročně
- SAVCI cca 40 - 50 druhů ročně

1992 - 2005

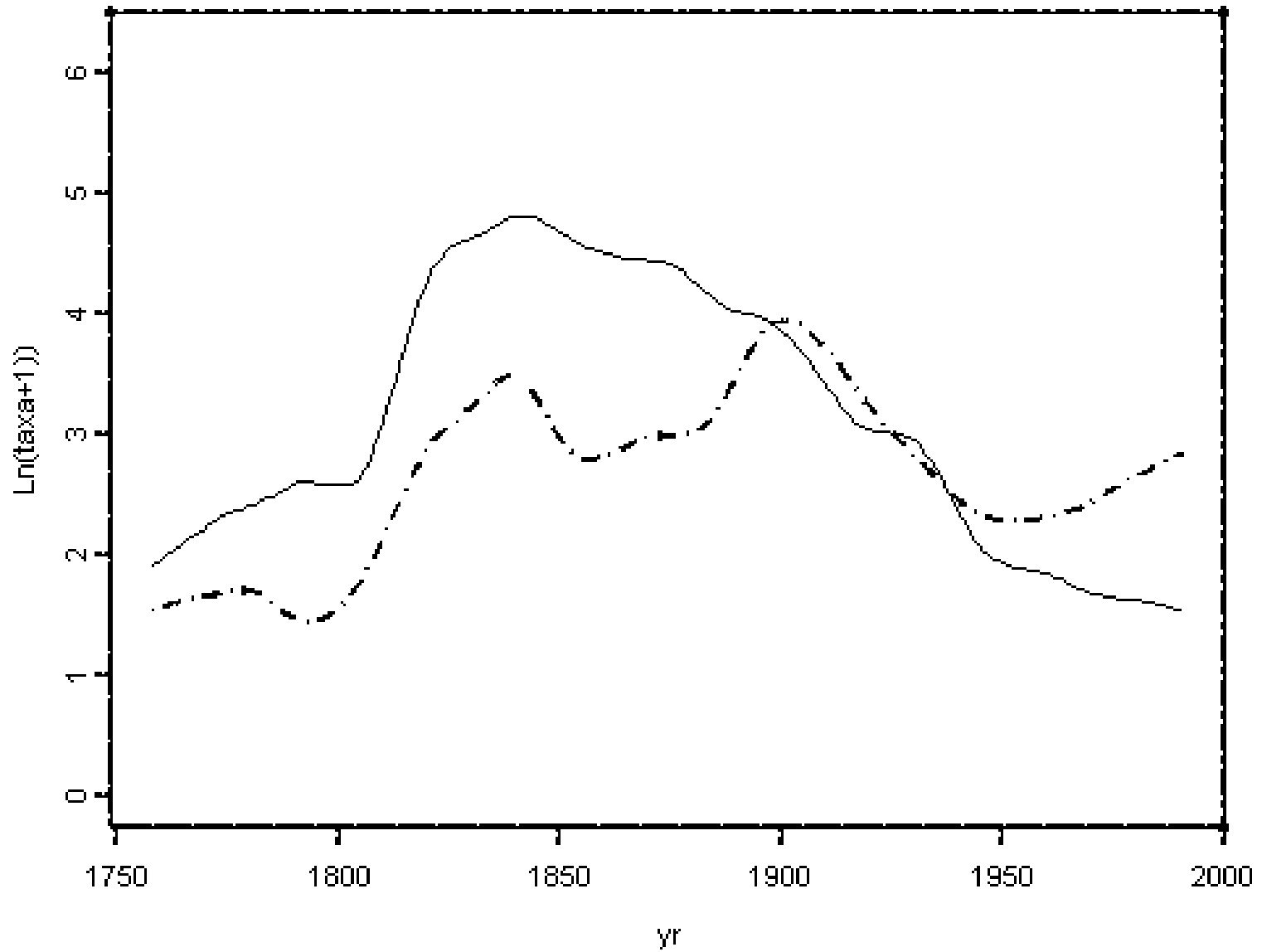
ptáci vs. savci

83 : 341

Log of Birds (+) and Mammals (o) described per year



Log of Birds (-) and Mammals (- -) described per year



REEDER ET AL.—NEW MAMMALS CONTINUE TO BE DISCOVERED

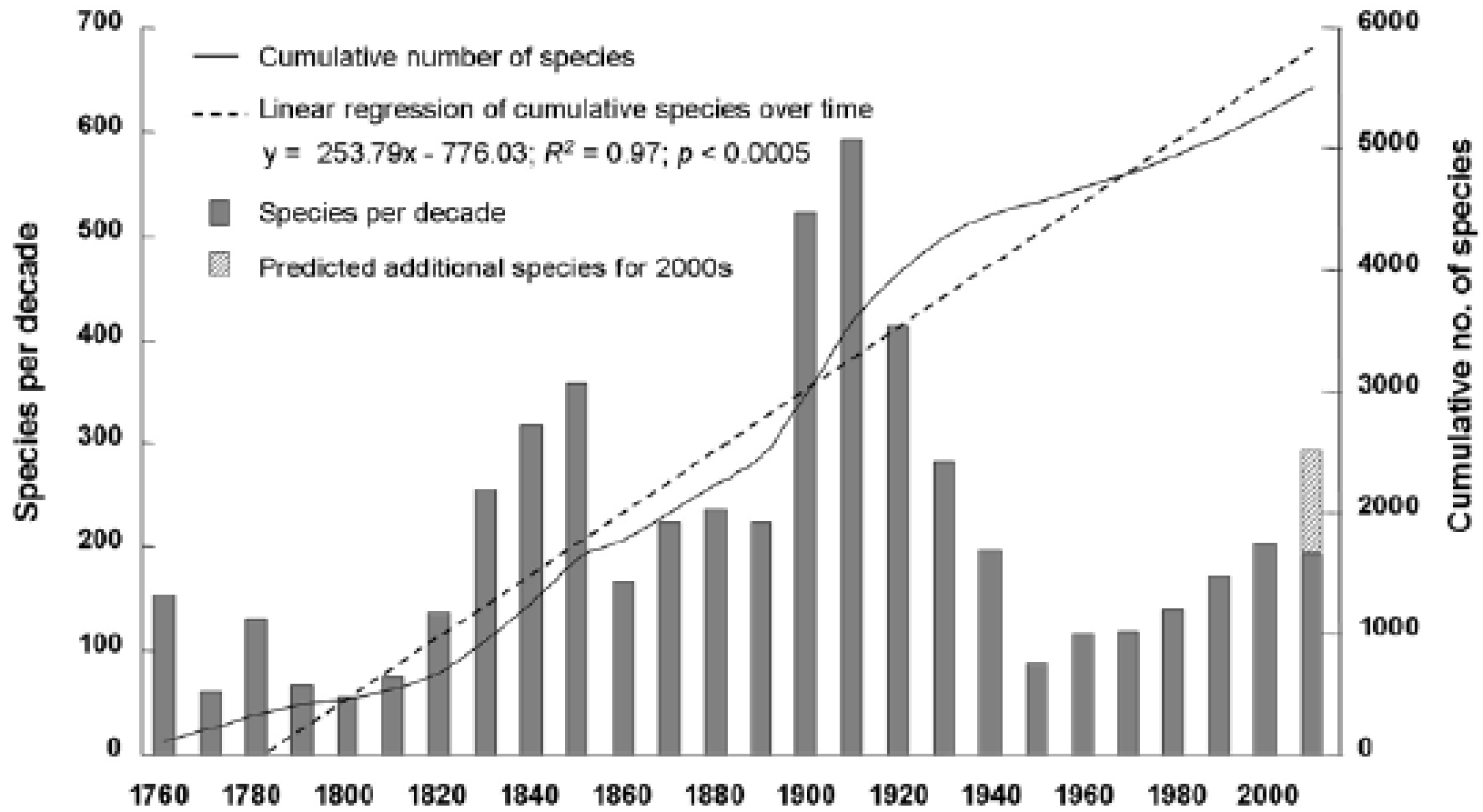
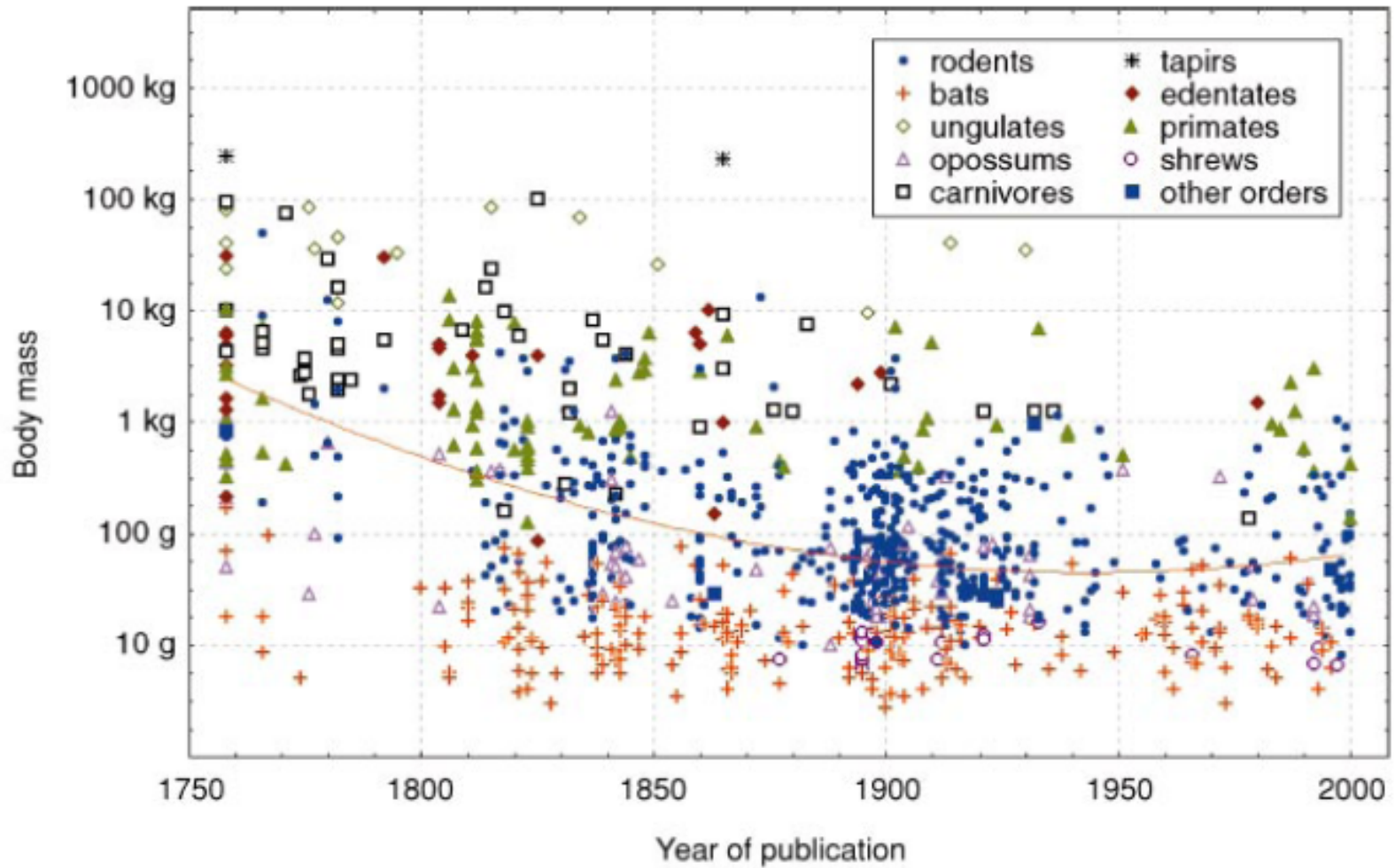
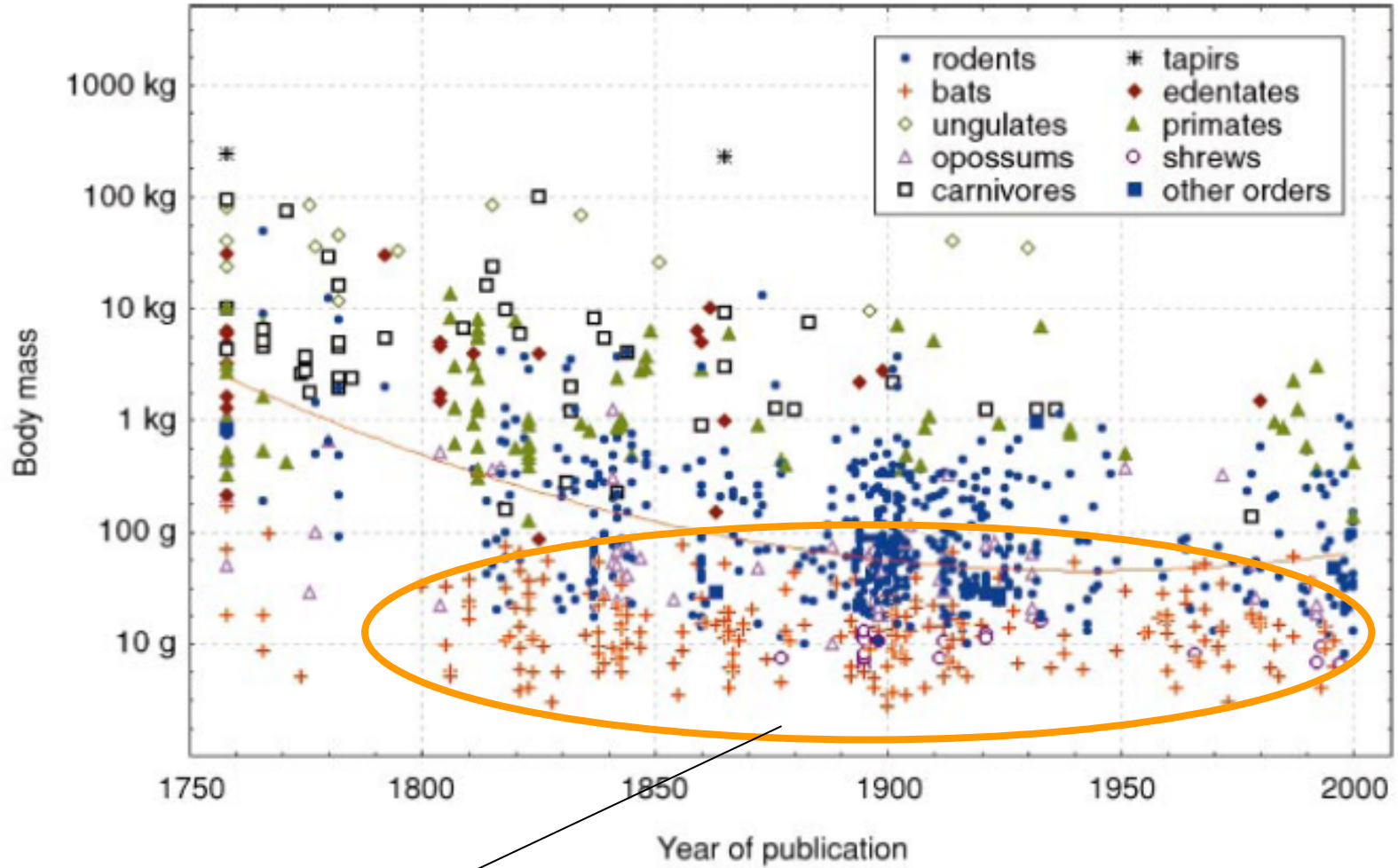


Figure 1. Cumulative and decadal descriptions of taxonomically valid extant mammal species.

Patterson 2001

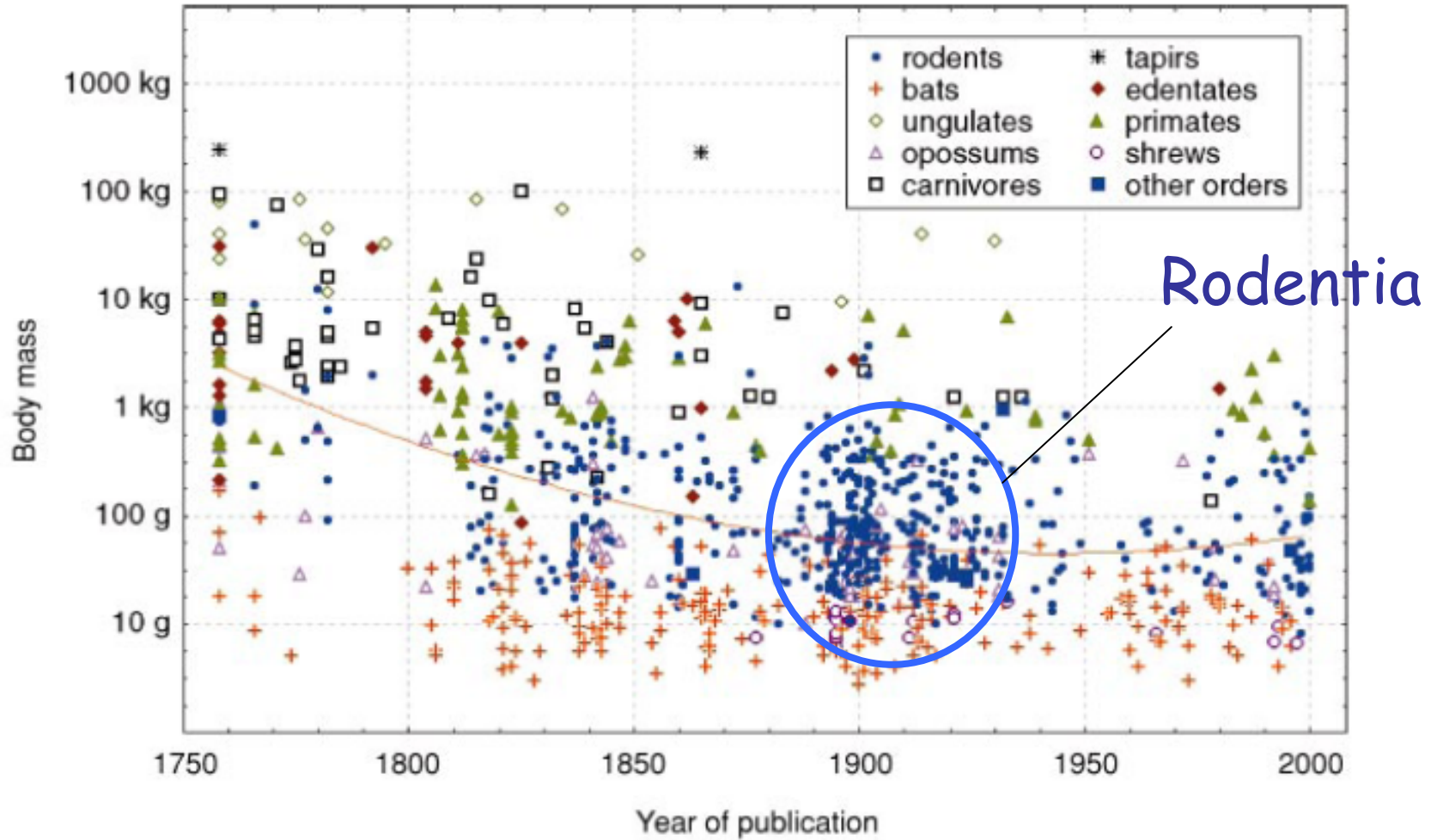


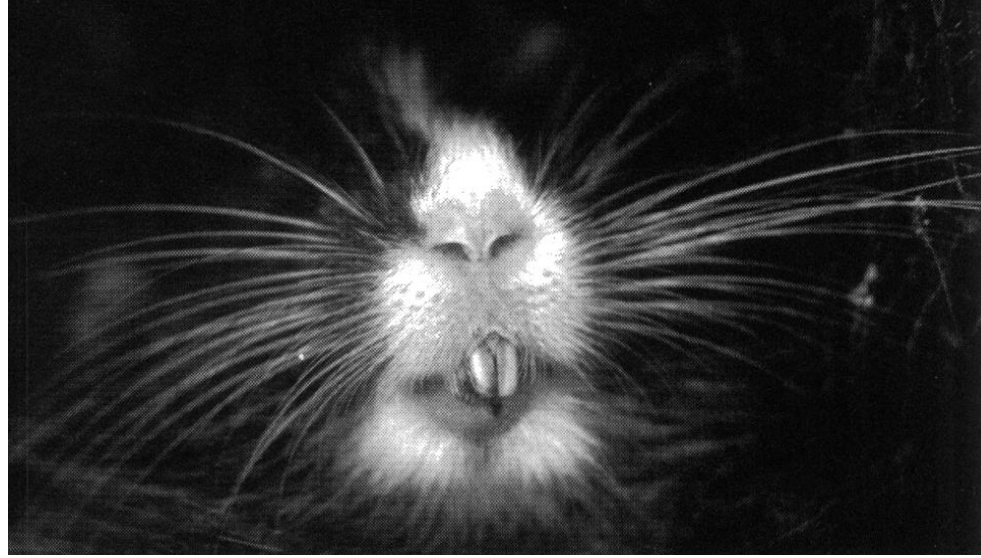
Patterson 2001



Chiroptera

Patterson 2001

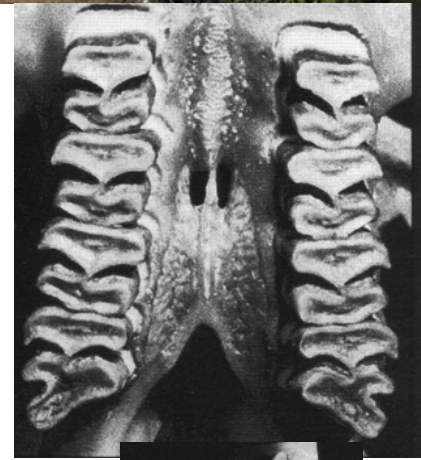




Andy

Cuscomys ashaninka

- činčilák ašaninka (Abrocomidae - činčilákovití) - 1999 L.H. Emmonsová



Abrocoma oblativa Eaton 1916 - ex.
Cuscomys oblativus

Cuscomys ashaninka Emmons 1999

1992 - 2005 341 nových druhů savců

Rodentia 155 druhů



Mallomys sp.n. - krysa (Murinae), Papua - Nová Guinea

Chiroptera 78 druhů



Styloctenium mindorensis Esselstyn 2007
- kaloň, nížinné lesy Filipín

1995 - 2007

2006: 36 nových druhů primátů

Tarsius lariang - nártoun (nártounovití - Tarsiidae) - JV Asie

Microcebus jollyae - maki (makiovití - Cheirogaleidae)

Microcebus mittermeieri

Microcebus simmonsii

Microcebus mambiratra

Lepilemur aeeclis - lemur (lemurovití noční - Megaladapidae)

Lepilemur randrianasoli

Lepilemur sahamalazensis

Lepilemur ahmansoni

Lepilemur betsileo

Lepilemur fleuretae

Lepilemur grewcocki

Lepilemur hubbardi

Lepilemur jamesi

Lepilemur milanoii

Lepilemur petteri

Lepilemur seali

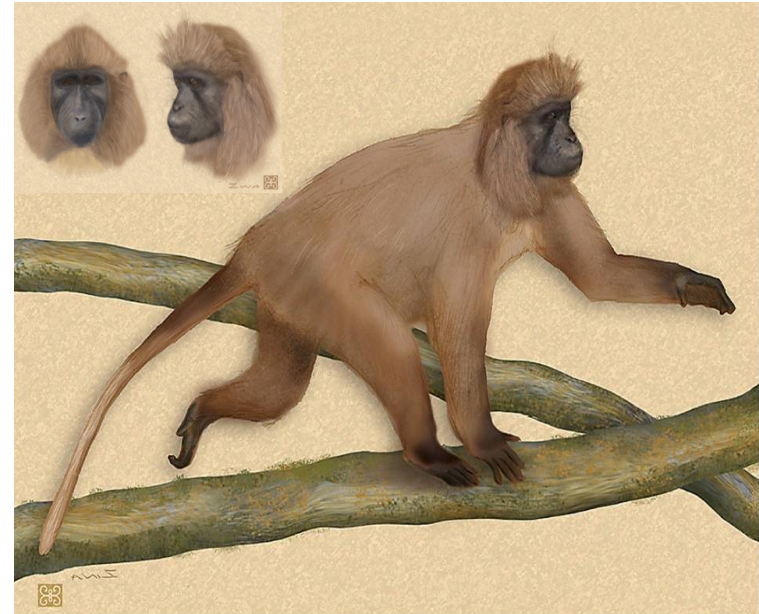
Lepilemur tymerlachsoni

Lepilemur wrighti

Avahi peyrierasi - avahi (indriovití - Indridae)

Cebus queirozi - malpa (malpovití - Cebidae)

Lophocebus kipunji
Rungwecebus



Tanzánie 2005

mangabej kipundži - kočkodanovití (*Cercopithecidae*)

because of the terrain, thick secondary forest, and the animal's cryptic nature, sightings were infrequent and poor. It was not until December 2003, during work in the contiguous Livingstone Forest, that the monkey was clearly observed and recognized as a new species of mangabey.

Ndundulu population. The Udzungwa Mountains (Udzungwas: 10,000 km², 07°40'S to 08°40'S and 35°10'E to 36°50'E) lie 350 km to the northeast of Rungwe-Livingstone (4, 5). Supporting circa (ca.) 1017 km² of fragmented forest (6), the Udzungwas receive a maximum annual rainfall of roughly 2200 mm and were previously thought to hold 10 primate species (7), including the endemic Sanje mangabey, *Cercocebus sanjei*, discovered in 1979 (8).

Two populations of the Sanje mangabey are known from the Udzungwas (7, 9). During visits from 1991 to 2000, ornithologists working in the Ndundulu Forest Reserve (Fig. 1) reported a third population of the Sanje mangabey (10). Subsequent surveys failed to confirm the presence of this species in Ndundulu (7, 9, 11) and led to our intensified surveys in July and September 2004. During these surveys, Sanje mangabeys were not encountered or heard. However, on 7 July 2004, the new species of mangabey was discovered. It now seems certain that the ornithologists had misidentified the new species of mangabey as the Sanje mangabey.

The researchers working on each of these two new populations of mangabeys did not become aware that a second population was known until October 2004.

Lophocebus kipunji Ehardt, Butynski, Jones, and Davenport sp. nov.

Holotype. Adult male in photograph (Fig. 2). Photograph taken in the type locality at 9°07'S 33°44'E (12). The number of individuals in each of the two populations of this species is undoubtedly very small; no



Fig. 2. Holotype: adult male highland mangabey *Lophocebus kipunji* in the type locality, Rungwe-Livingstone, Tanzania. [Photograph by T.R.B. Davenport]

live individual should be collected at this time to serve as the holotype. The Rungwe-Livingstone population is designated the source population for physical specimens in support of the holotype.

Paratype. Adult in photograph (Fig. 3). Sex not known. Photograph taken in Ndundulu Forest Reserve (07°48'45"S 36°31'05"E), Udzungwa Mountains, Tanzania.

Type locality. Rungwe-Livingstone (09°07'S to 09°11'S and 33°40'E to 33°55'E), Southern Highlands, Tanzania.

Diagnosis. Pelage of dorsum light to medium brown, center of ventrum and distal half of

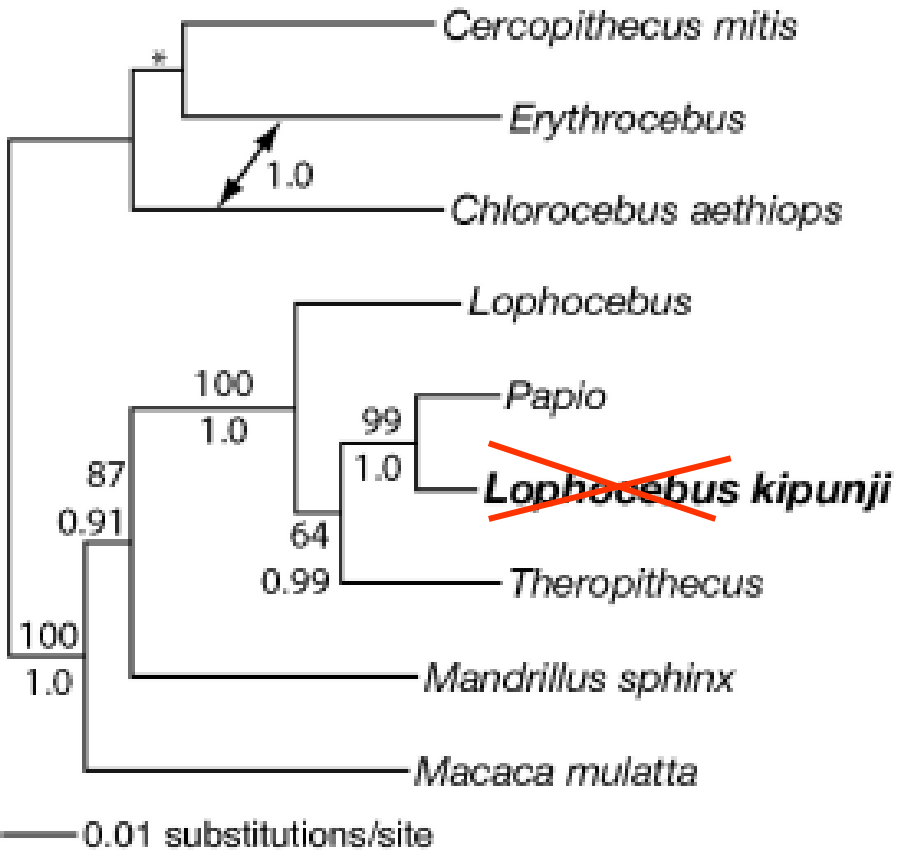


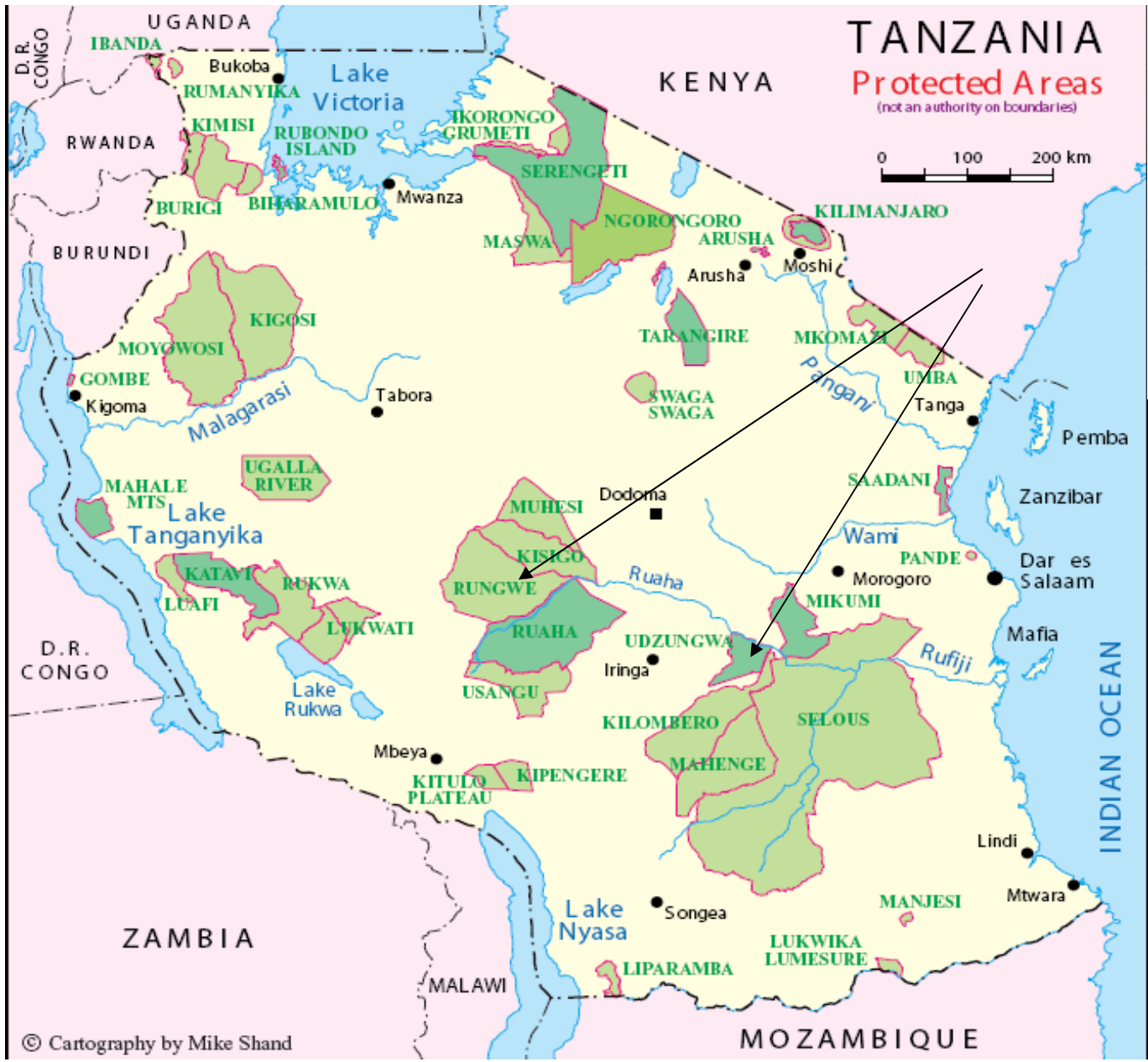
Fig. 3. Paratype: adult highland mangabey *Lophocebus kipunji*, Ndundulu Forest Reserve, Tanzania. [Photograph by T. Jones]

tail off-white. Crown with very long, broad, erect crest of hair. Eyelids black, not contrasting with color of face. Adults emit a distinctive, loud, low-pitched "honk-bark" (Fig. 4). Arboreal. Found only at high altitudes (1300 m up to 2450 m asl) and low-temperature tolerant; temperatures in Rungwe-Livingstone drop to at least -3°C.

Description. A primarily brown, medium-sized, long-tailed, arboreal monkey. Muzzle elongated. Facial skin, including eyelids, black. Suborbital fossae "tear line" pronounced. Eyes brown. Pelage light to rufous brown except as follows: center of ventrum and distal half of tail, white to off-white; hands and feet, black; lower forelimbs, dark brown to black. Cheek whiskers long. Crown with very long, broad, stiff, upright crest of hair. Shoulder cape present in some individuals, although there is variation in length and color. White of ventrum sharply offset from brown in at least

Rungwecebus kipunji





Galagoides udzungwensis - komba
1996

Congosorex phillipsorum - bělozubka
2005



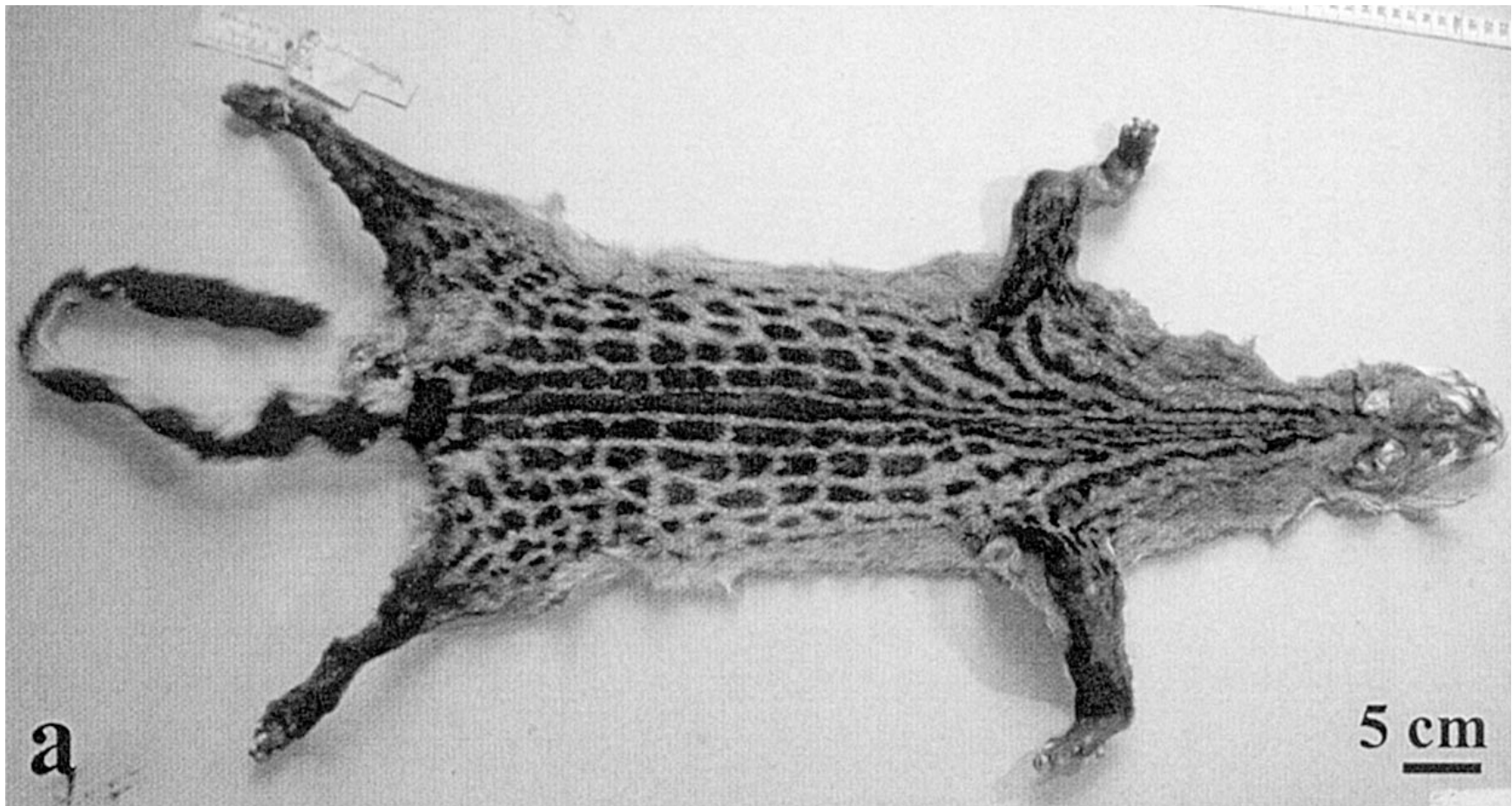
Rhynchocyon udzungwensis Rathbun 2008

Ital Rovero - 2005 fotopasti, Dr. Rathbun - Kalifornská akademie věd - 2008
Afrotheria - Macroscelidea - bércoun = elephant shrew, 1 kg, 30 cm



Dr. Rathbun





Národní přírodovědné **muzeum** Paříž

Genneta burloni 2003 - ženetka Bourlonova
coll. 1959 - podle kůže, stř. Z Afrika



...na trhu



Neofelis nebulosa diardi - nový
druh, pův. poddruh levharta
obláčkového
Borneo 2006, 1/3 terestrických
savců na Borneu - endemiti





1995

...fotopasti



Nesolagus netscheri - králík krátkouchý (Leporidae),
Sumatra, od 1929 neznámý



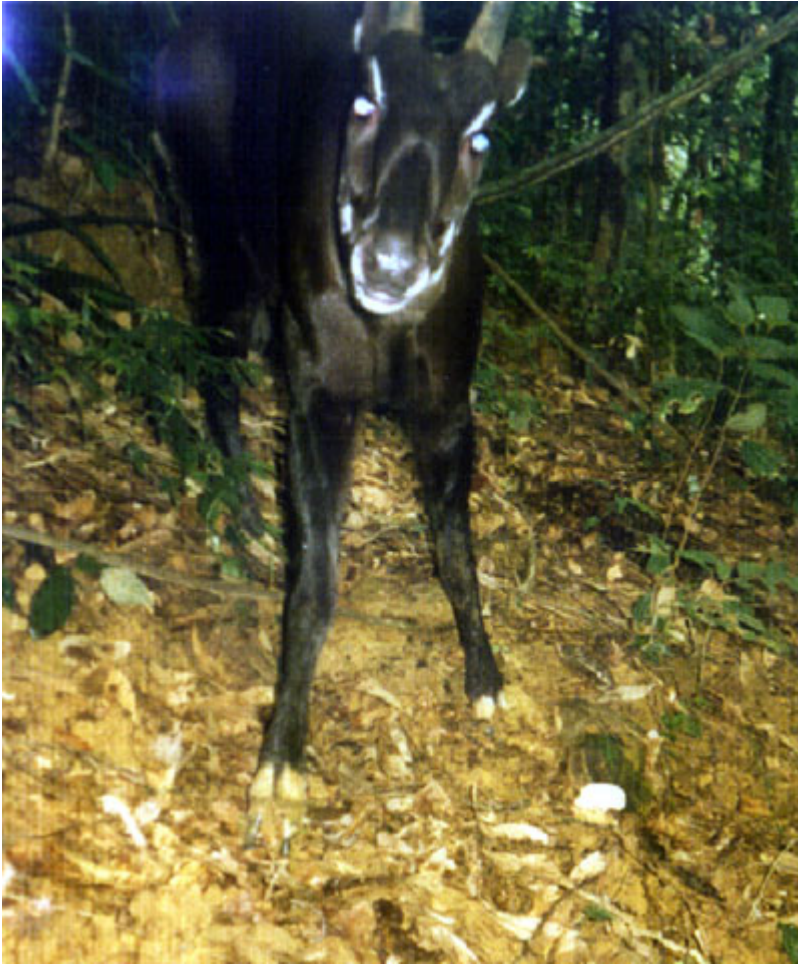
1998: *Nesolagus netscheri*



Nesolagus timminsi 2000 - králík Timminsův

Trh v Laosu 1995 - Timmins, 2000 - popsán Rusy, endemit Anamitského pohoří na hranici Laosu a Vietnamu

- ...fotopasti



1998

Pseudoryx nghetinhensis



2007

Muntiacus vuquangensis

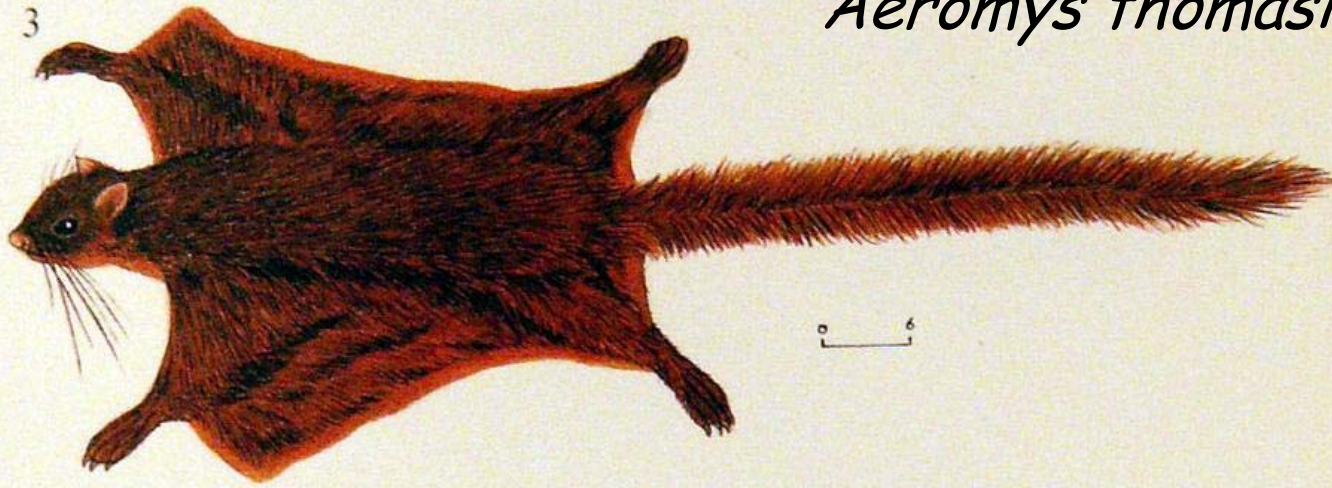
Bornejská kočkoliška (2003)



1. puchol hnědý *Diplogale hosei* (Viveridae) - netypické zbarvení
2. nový druh cibetky (2006)
3. poletucha Thomasova *Aeromys thomasi* (Sciuridae) *Meijaard et al., Mammal Review 2006*

Aeromys thomasi

3



WWF Camera Trap





IUCN Small Carnivore Specialist Group - Mohd. Azlan J.

2003 *Diplogale hosei* - puchol hnědý (Borneo)



2006 *Bdeogale jacksoni* - mangusta Jacksonova (Herpestidae)



2007 *Dicerorhinus sumatrensis* - nosorožec sumaterský



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Stealth Cam 02-03-2008 00:46:48



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Stealth Cam 02-11-2008 08:02:38



ZSL

2008 *Hexaprotodon liberiensis* – hrošík liberijský



2003 *Catopuma badia* - kočka bornejská

Nové čeledi na základě nálezů nových druhů

1905



WWW.RODENT-INFO.NET



Calomyscidae - křečkové myši (také jako podčeleď - Calomyscinae)
- blízký a střední východ

pův. Laonastidae - nyní Diatomyidae



Laonastes aenigmamus 2005 - khanyou
skalní krysa (Laos=kámen, skála - řecky, tajuplná skalní myš z Laosu)



Extinct relatives
Diatomys shantungensis fossil (20 mya)
from Shandong, China

Fosilie popsána
v 1974 Mary
Dawsonovou

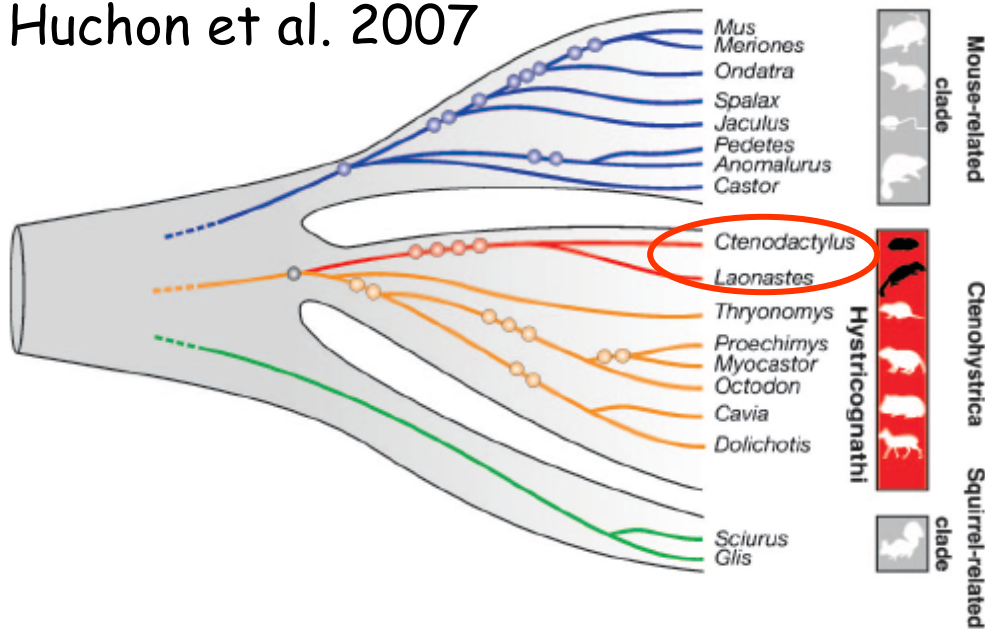
Laonastes aenigmamus (extant)
Khammouan Province, Laos

khanyou

Timmins na tržišti v deltě
Mekongu (Laos) 1996

Ctenodactylidae

Huchon et al. 2007



Pectinator spekei - gundi somálský

Ctenodactylus gundi - gundi saharský



Massoutiera mzabi - g. východní



Lipotidae

1918



Lipotes vexillifer - delfínovec čínský (ex. 2007?)
vymřelá čeleď Lipotidae (Iniidae nebo Platanistidae) - delfínovcovití

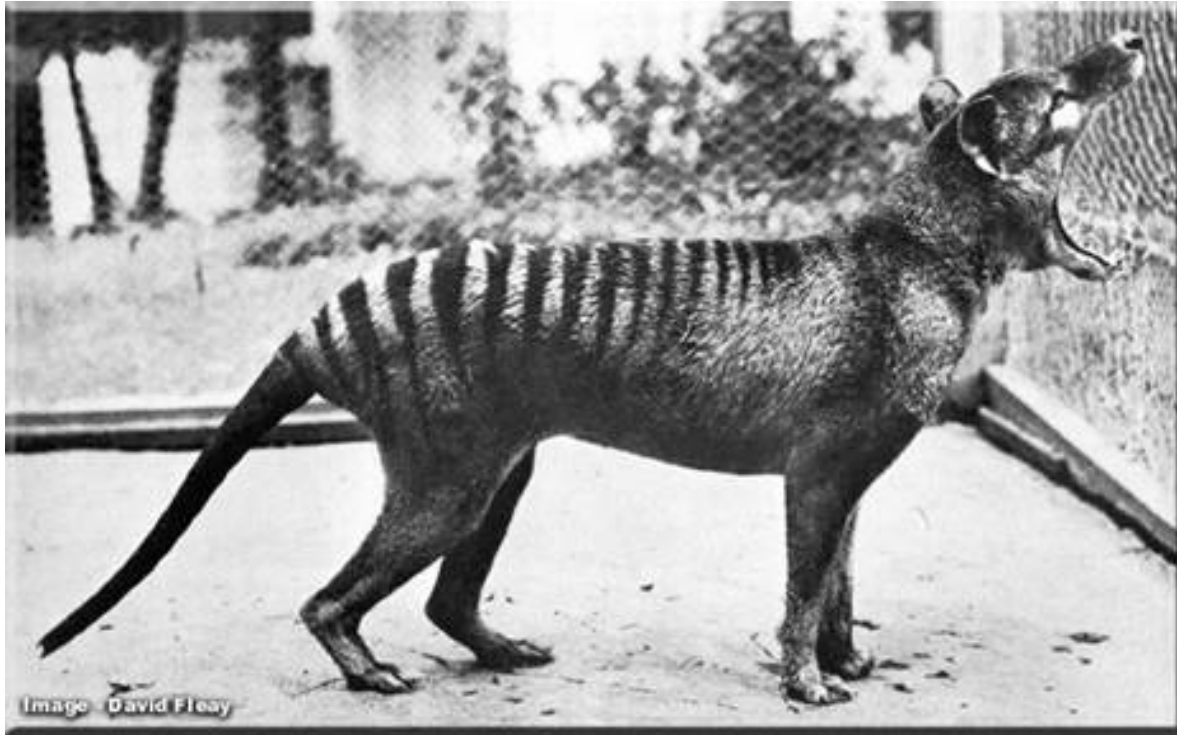
Craseonycteridae

1974



Craseonycteris thonglongyai

netopýrek thajský



Thylacinus cynocephalus
1936 - ?

Diverzita savců v Evropě

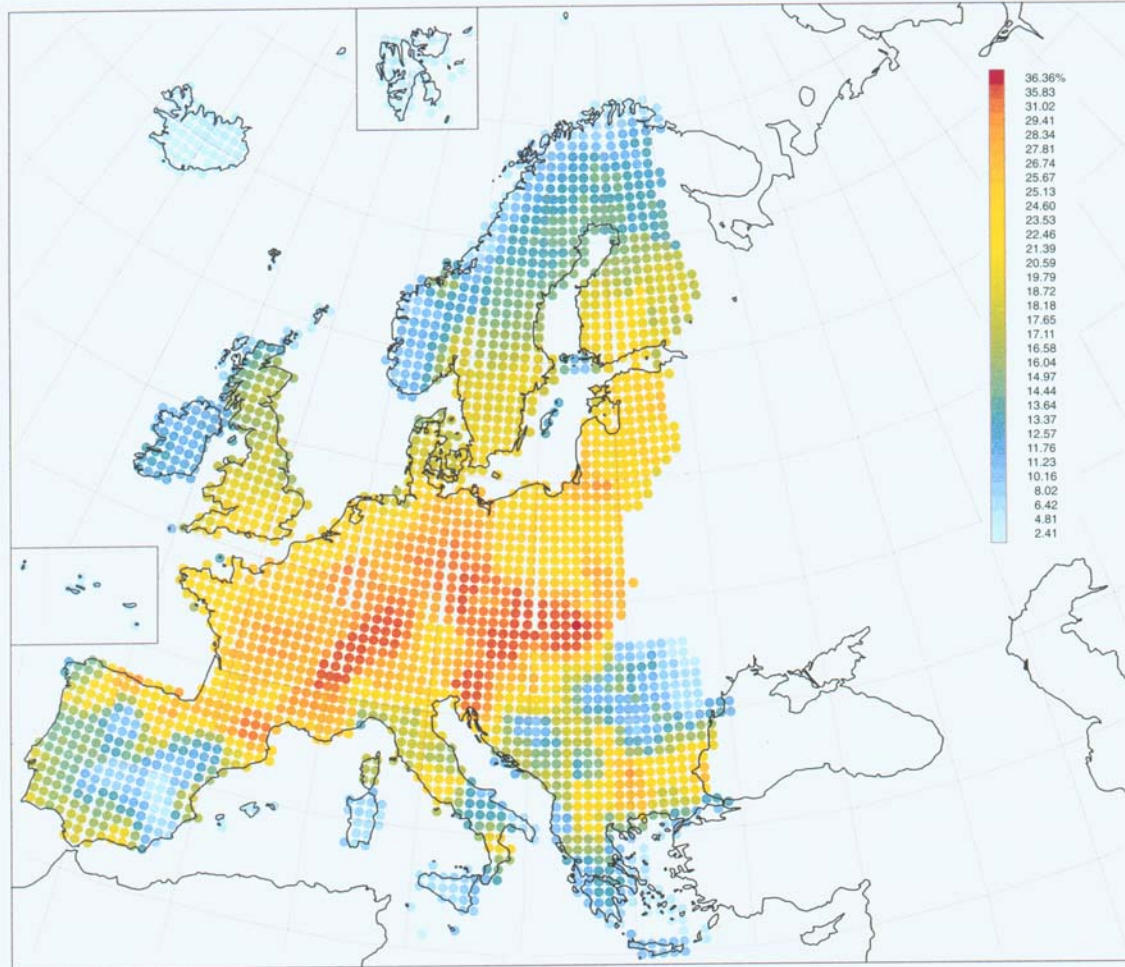


Figure 1 Species richness of mammals across Europe. This illustrative map was prepared using Worldmap software and shows species richness (number of species per grid square) with one level of smoothing. The entire atlas dataset has been used, including introduced species. There are some differences between the *Atlas Flora Europaea* UTM grid used by this software and the one used in the Atlas, particularly around the south-eastern borders of Europe and also in the treatment of some island groups.