



PRIRODOSLOVNI MUZEJ SLOVENIJE

Boris Kryštufek



Brazdasti kit

Balaenoptera physalus

v Prirodoslovnem muzeju Slovenije

- **Kit v muzeju**

- Kit v muzeju
- Naravoslovne muzealije



10. marca 2003



- ▶ **odločitev o prevzemu**
- ▶ sredstva za delo
- ▶ načrt dela
- ▶ pridobitev dovoljenj

- ▶ odločitev o prevzemu
- ▶ **sredstva za delo**
- ▶ načrt dela
- ▶ pridobitev dovoljenj

- ▶ odločitev o prevzemu
- ▶ sredstva za delo
- ▶ **načrt dela**
- ▶ pridobitev dovoljenj



Medalja "Spiridion Brusina"

Spiridion Brusina

1845 - 1908



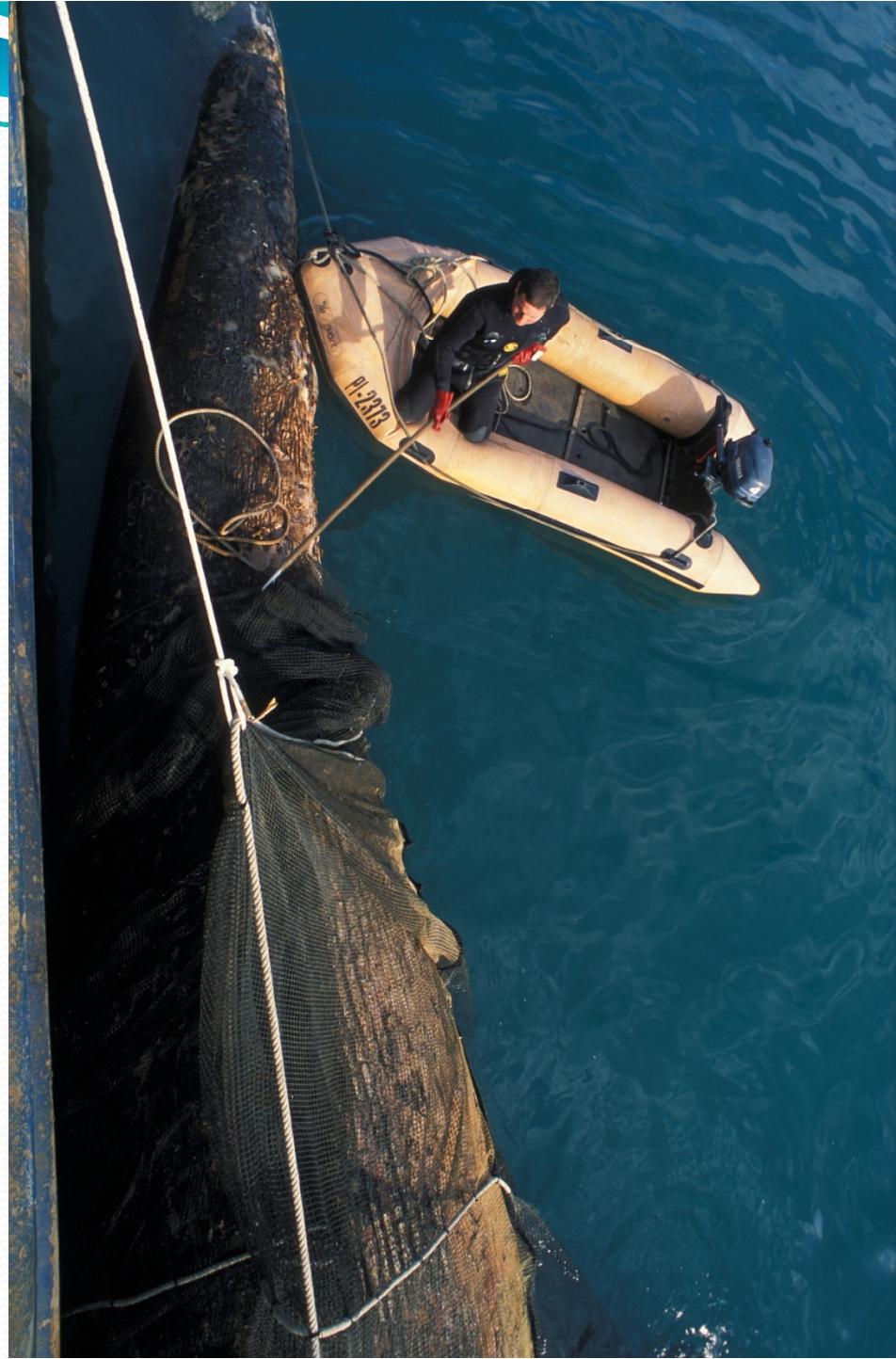
- ▶ odločitev o prevzemu
- ▶ sredstva za delo
- ▶ načrt dela
- ▶ **pridobitev dovoljenj**

- ▶ Ministrstvo za kmetijstvo, gozdarstvo in prehrano (VURS)
- ▶ Ministrstvo za okolje in prostor
- ▶ Ministrstvo za zdravje
- ▶ Ministrstvo za promet



PRIRODOSLOVNI MUZEJ SLOVENIJE

Ugo Fonda s.p.





PRIRODOSLOVNI MUZEJ SLOVENIJE



PRIRODOSLOVNI MUZEJ SLOVENIJE







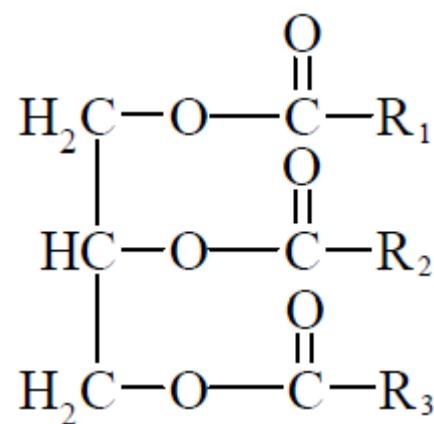
PRIRODOSLOVNI MUZEJ SLOVENIJE

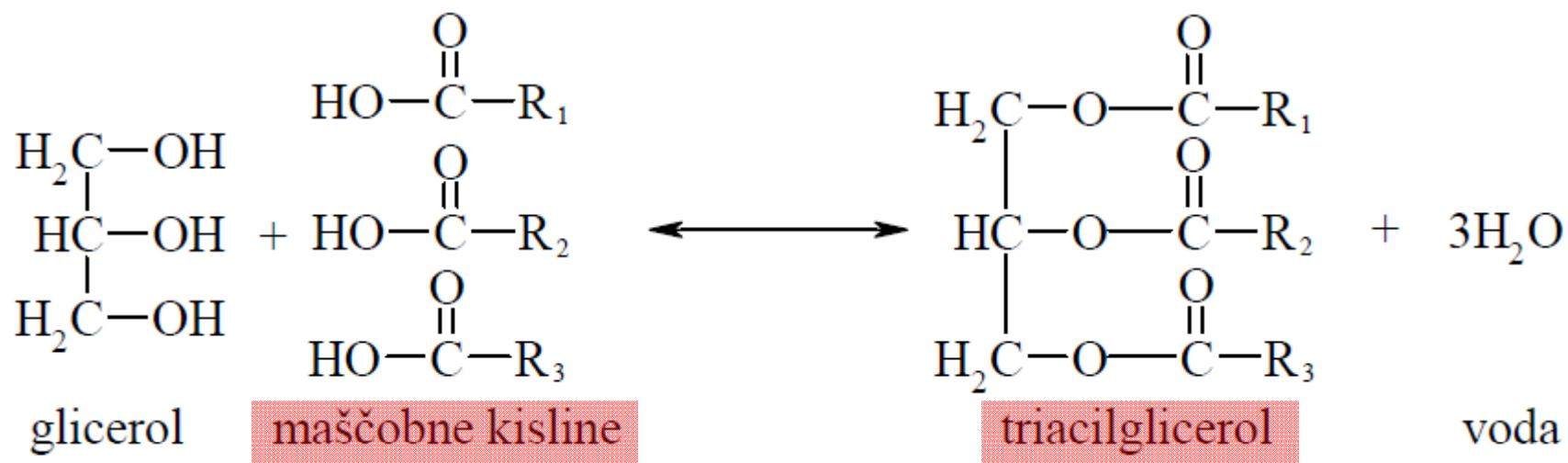




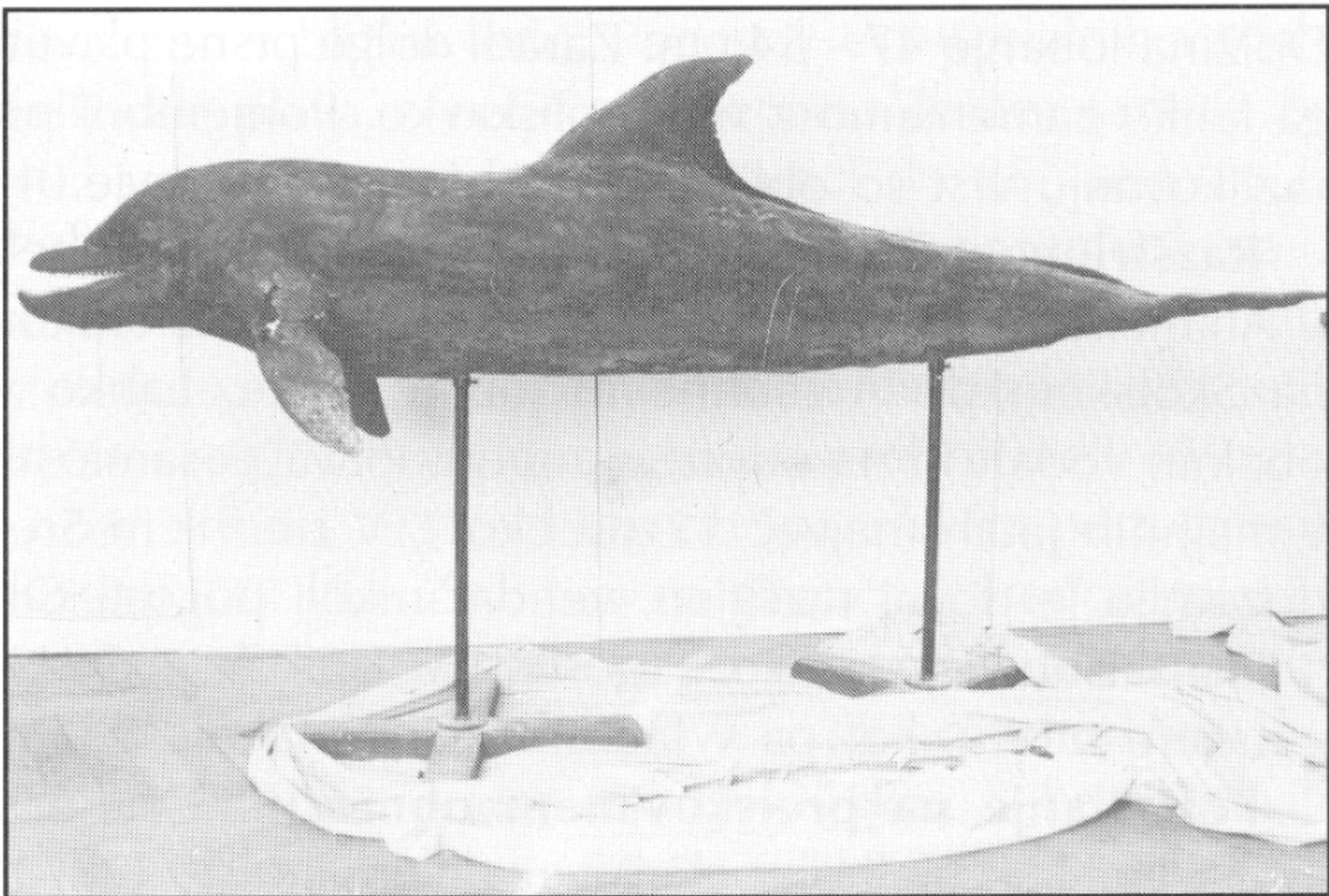


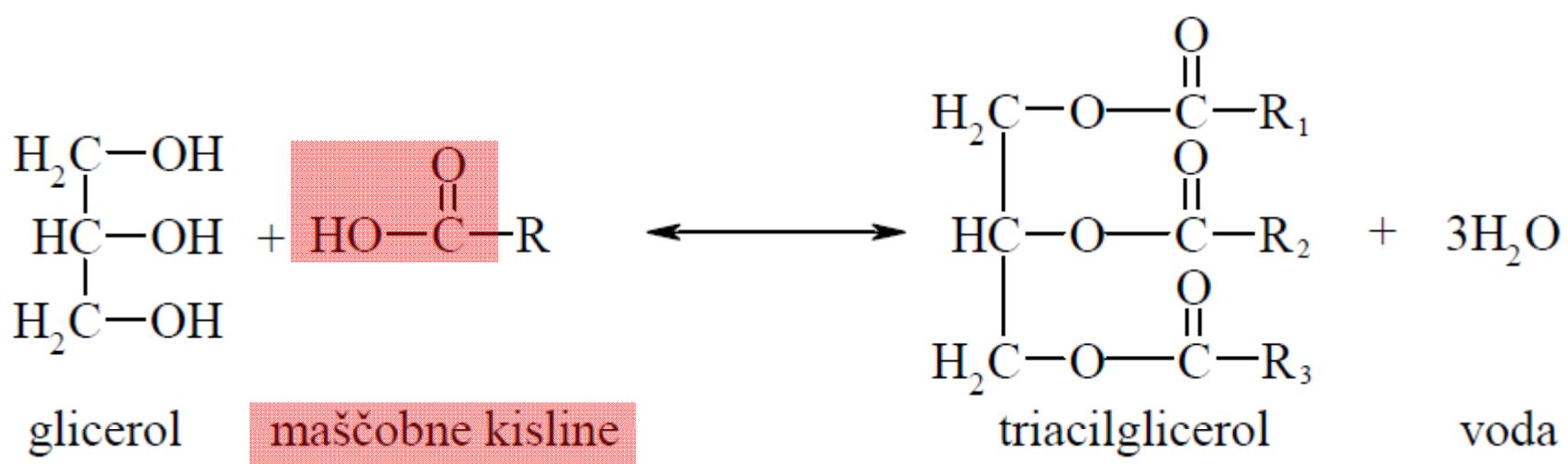
Maščobe





Nastanek triacilglicerola z zaestrenjem med glicerolom in maščobnimi kislinami









KEMIS

Kemični izdelki

Franci Lipovšek
univ. dipl. inž. kem. teh.







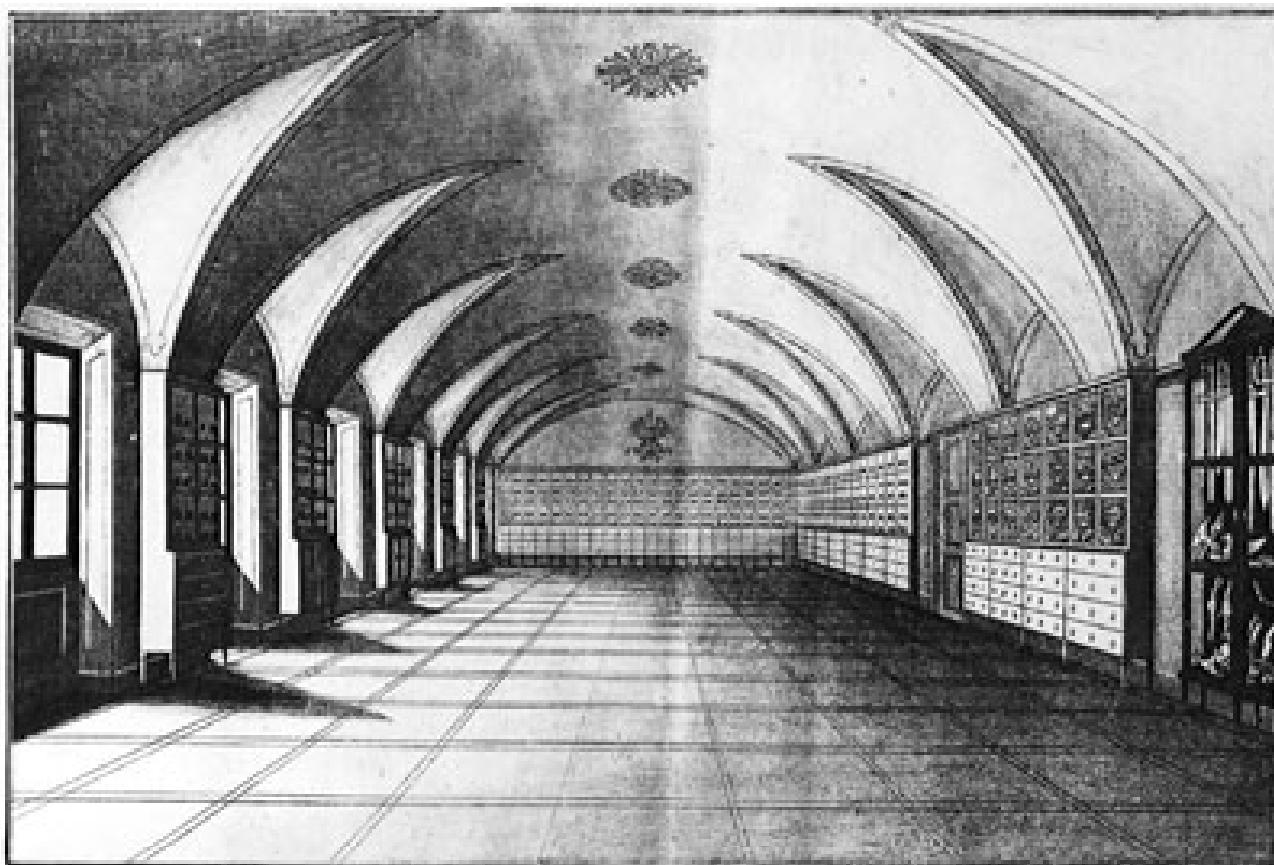
PRIRODOSLOVNI MUZEJ SLOVENIJE



PRIRODOSLOVNI MUZEJ SLOVENIJE



190. obletnica Prirodoslovnega muzeja Slovenije



Ansicht des Museums-Saales in Ljubljana.

Ansicht des Museums-Saales in Ljubljana.



PRIRODOSLOVNI MUZEJ SLOVENIJE









Naravoslovni muzej Budimpešta







Jure Malovič s.p.







PRIRODOSLOVNI MUZEJ SLOVENIJE

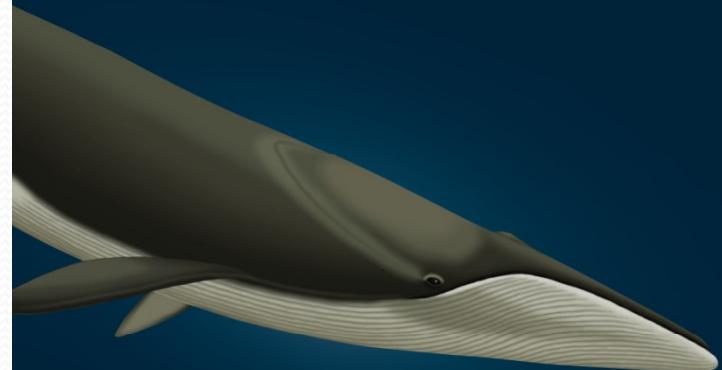




PRIRODOSLOVNI MUZEJ SLOVENIJE

Mojca
Jernejc Kodrič

Brazdasti kit
Balaenoptera physalus
v Prirodoslovnem muzeju Slovenije





PRIRODOSLOVNI MUZEJ SLOVENIJE



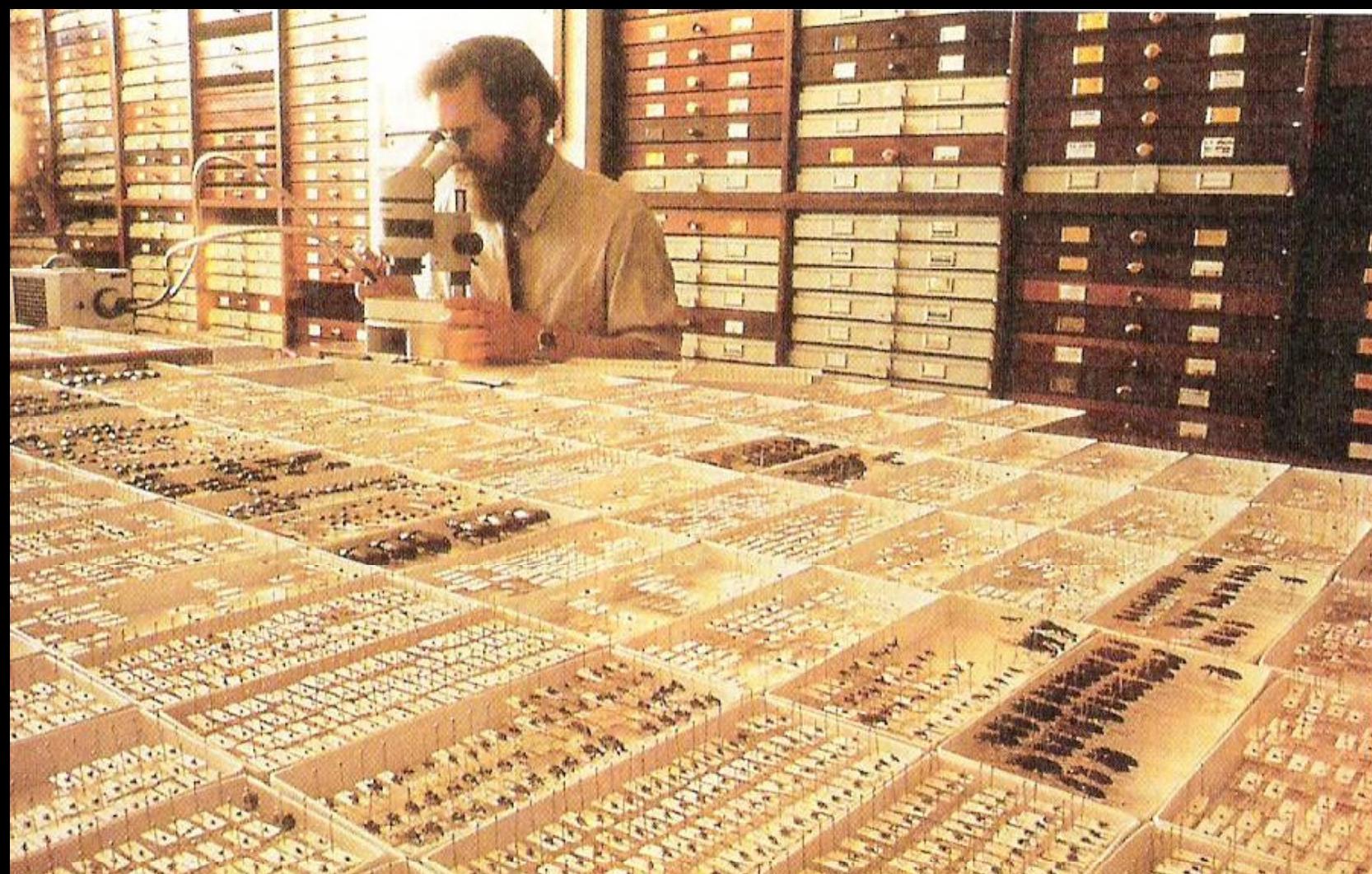
PRIRODOSLOVNI MUZEJI

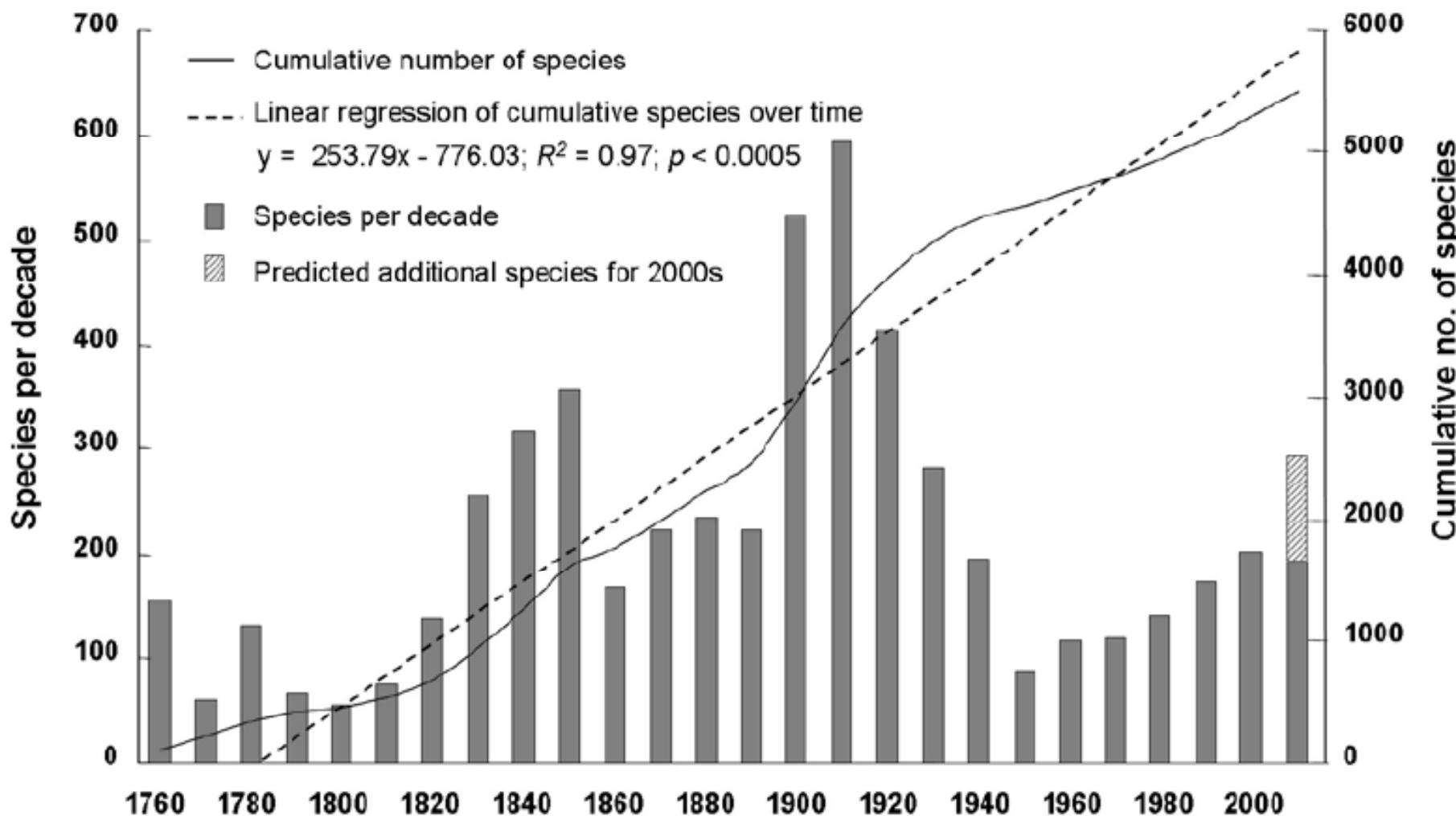












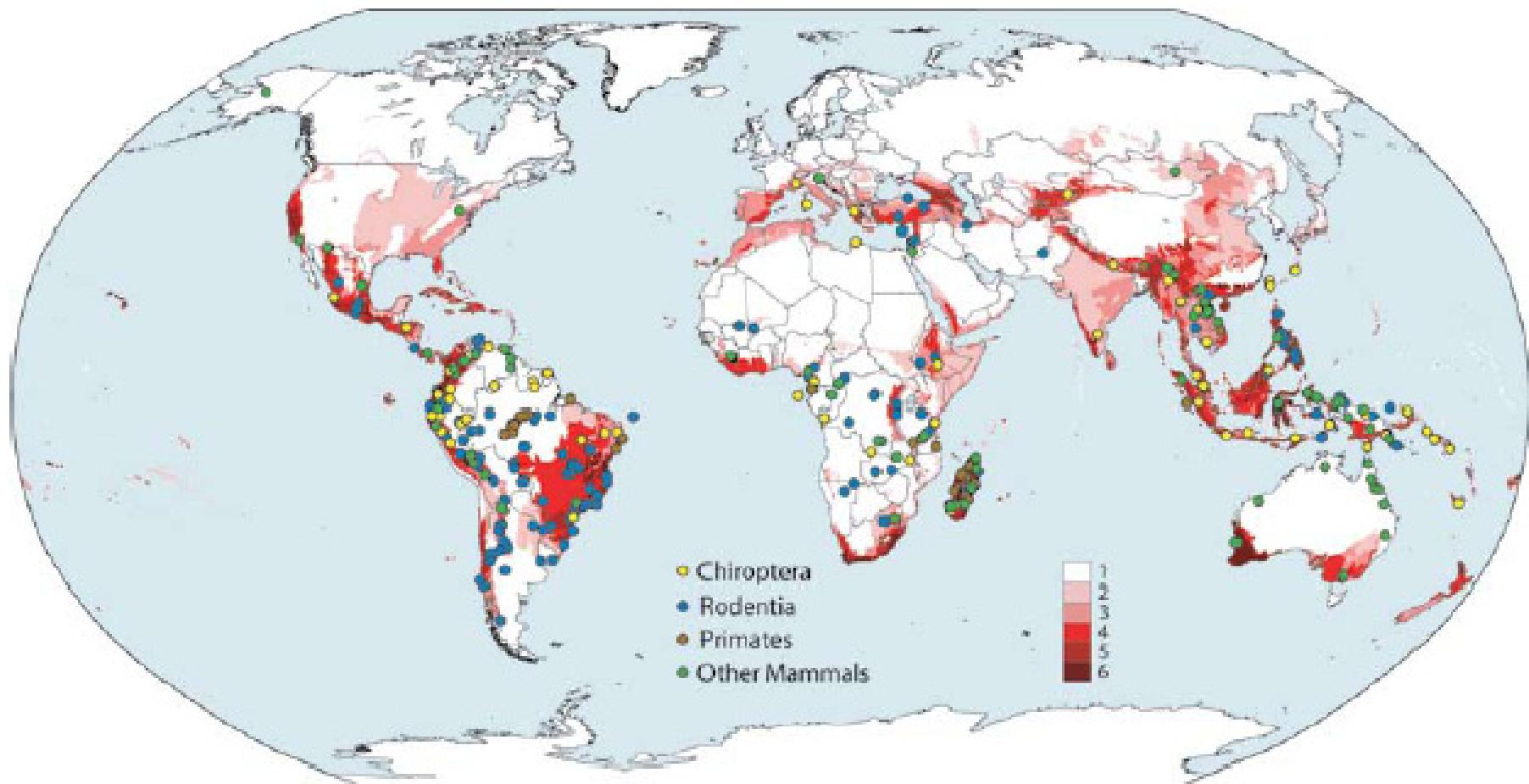


Figure 2. Global distribution of new mammals described since 1992. The distribution is overlaid on currently recognized regions of high threat and irreplaceability. Variable levels of shading indicate the number of global biodiversity conservation templates that prioritize the region (Brooks et al. 2005).

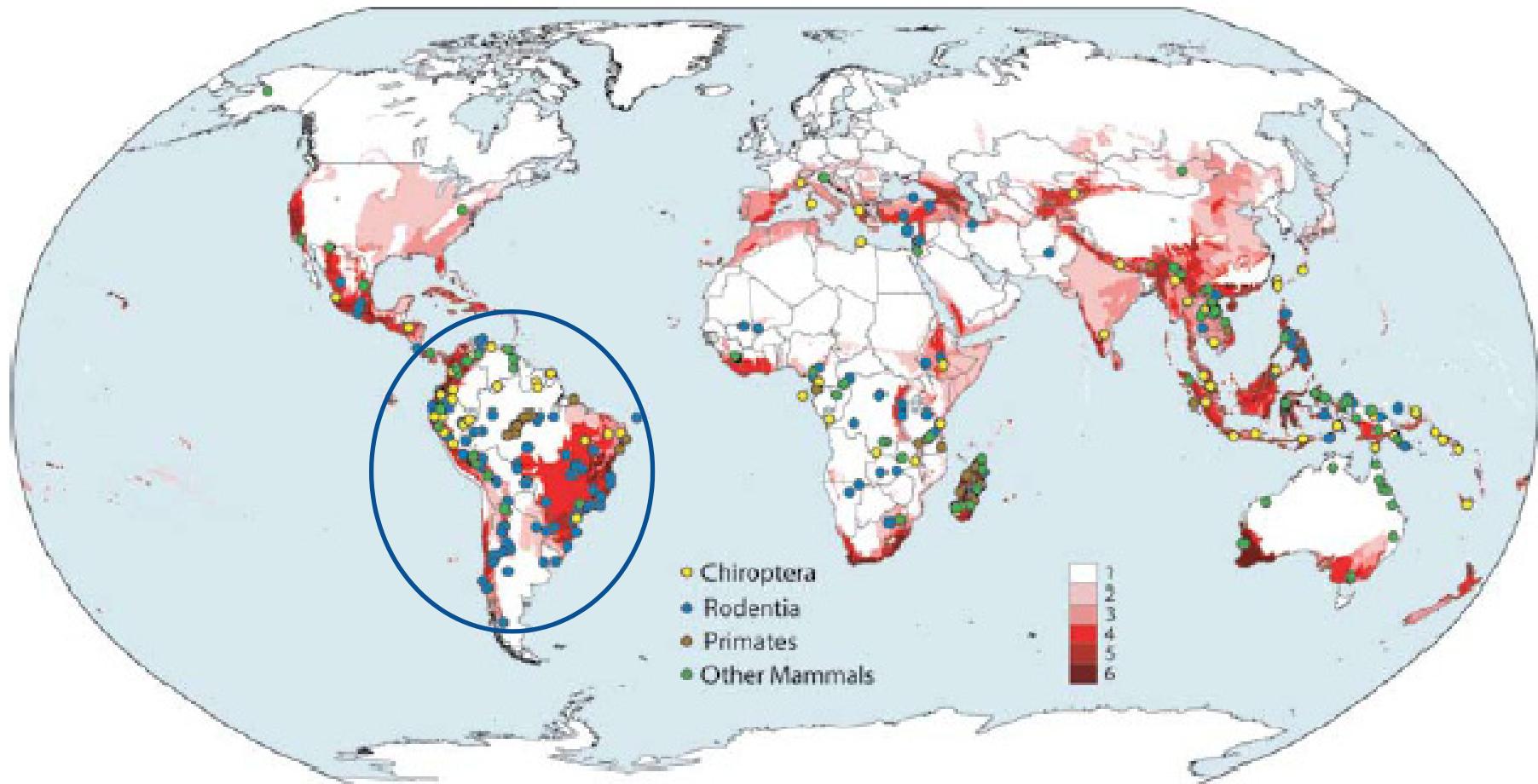


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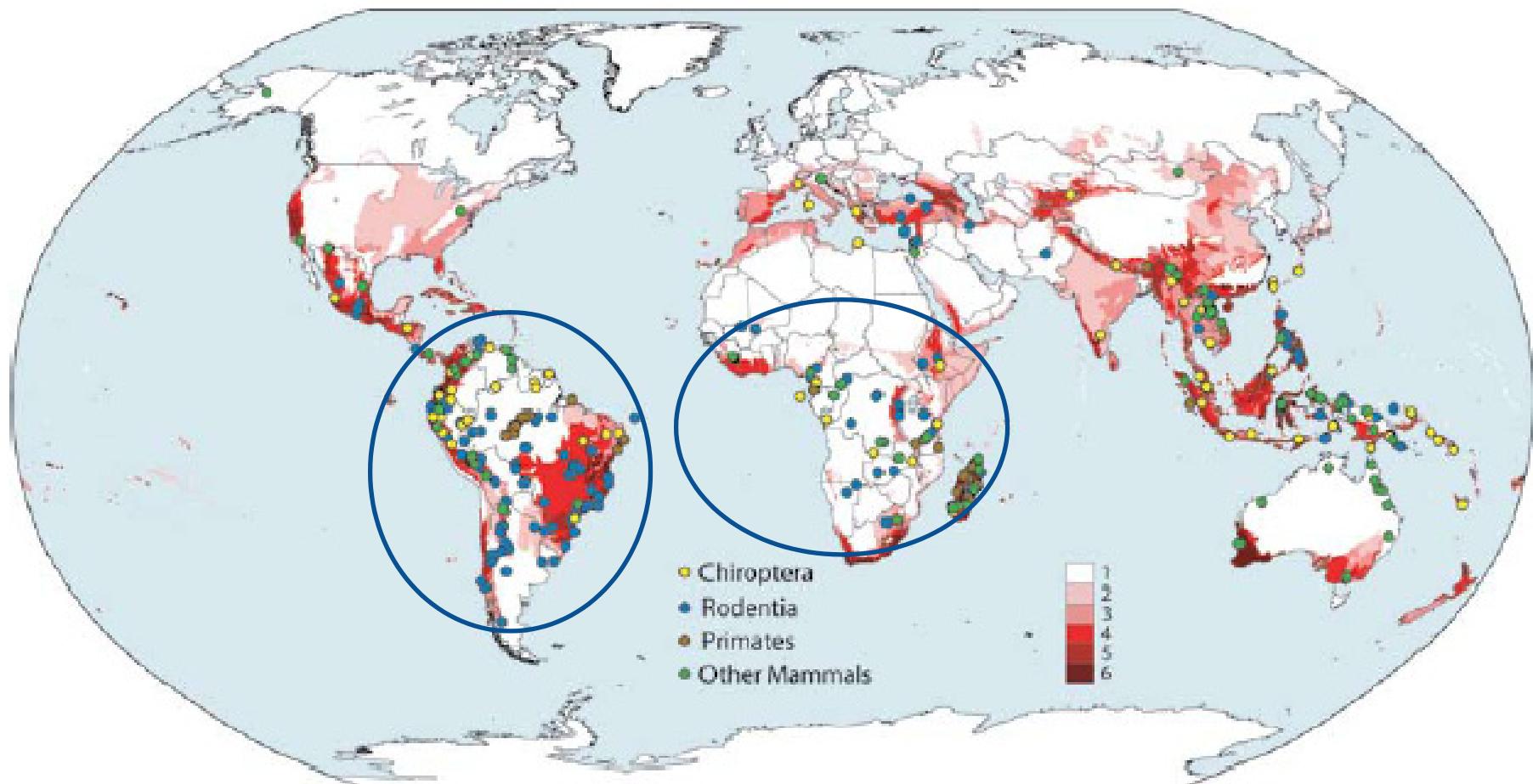


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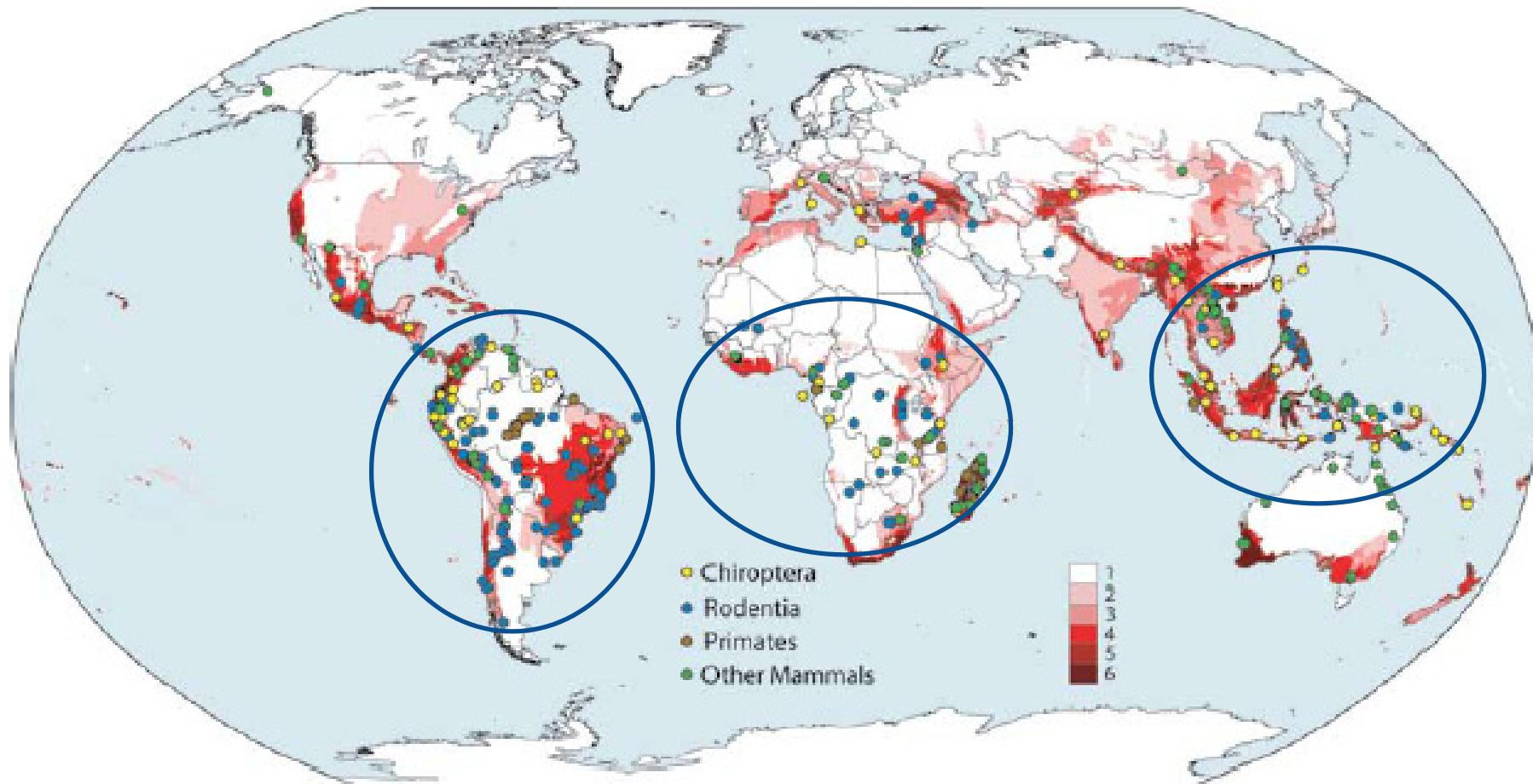


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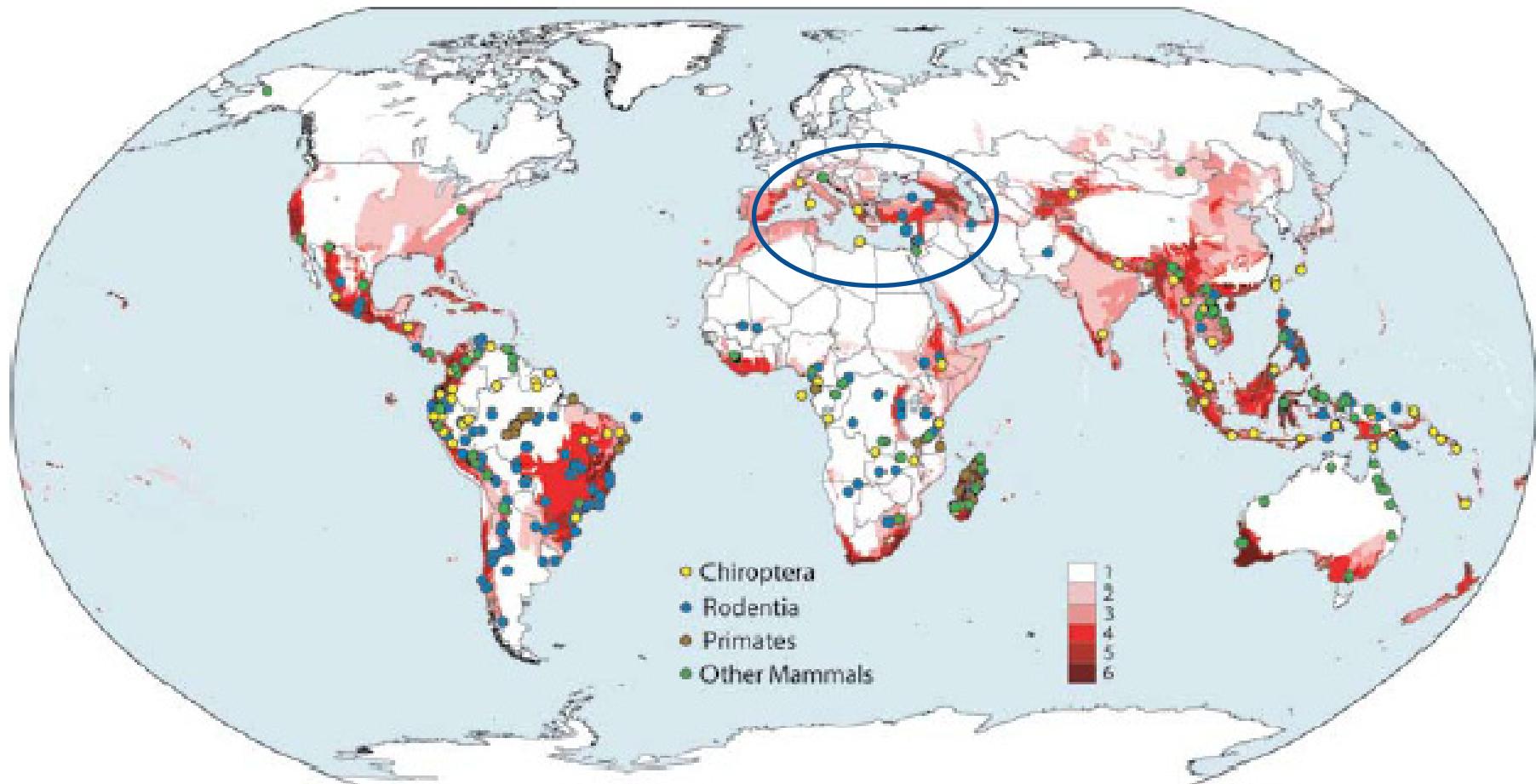
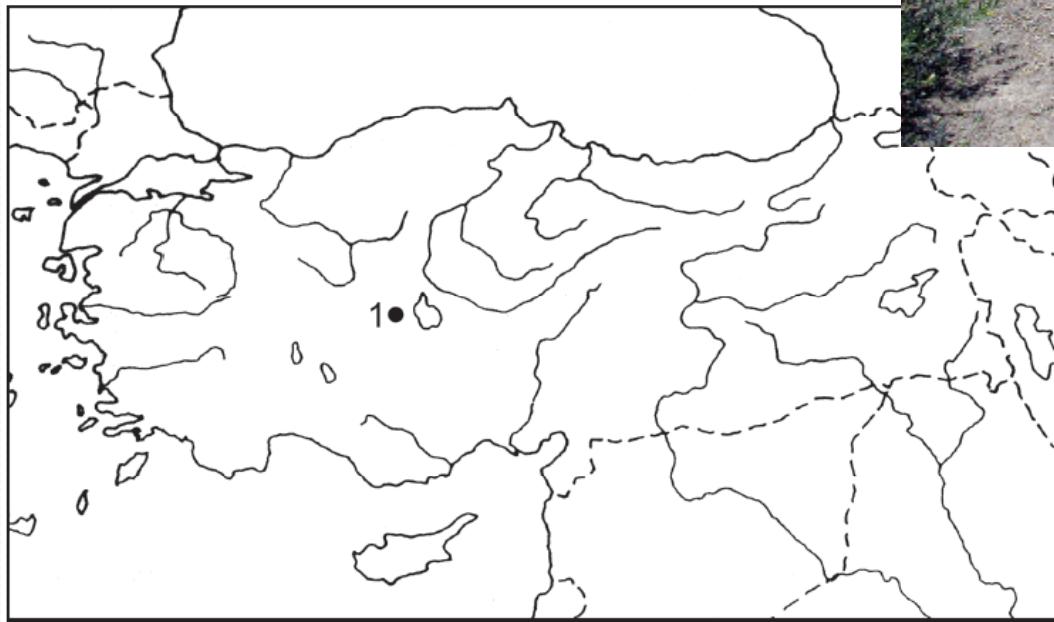


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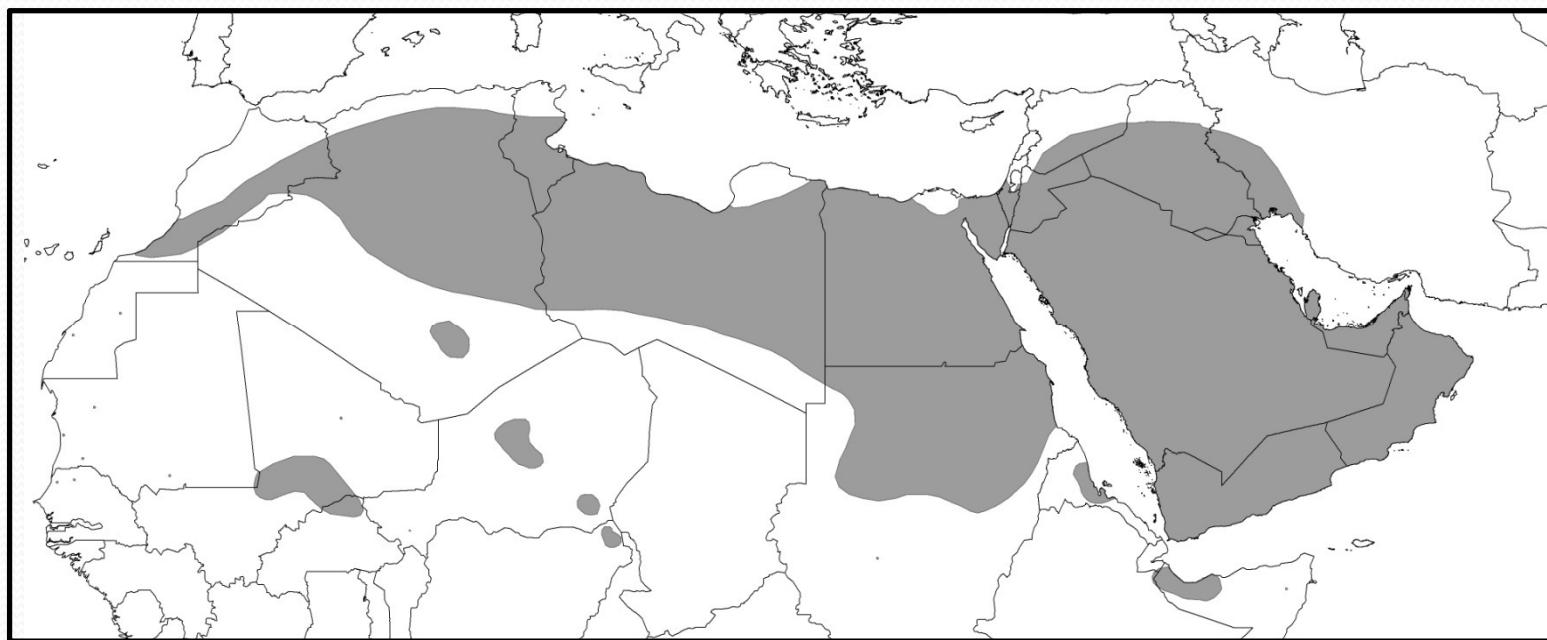
2001

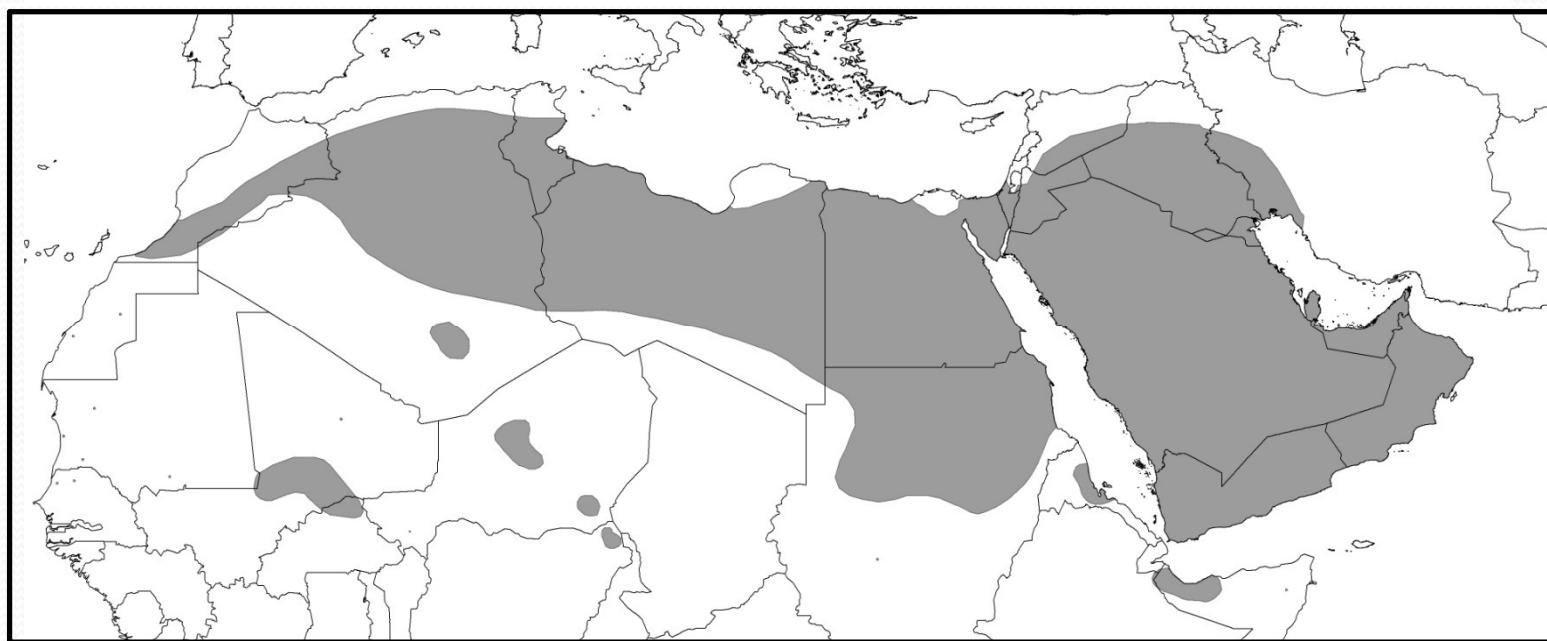
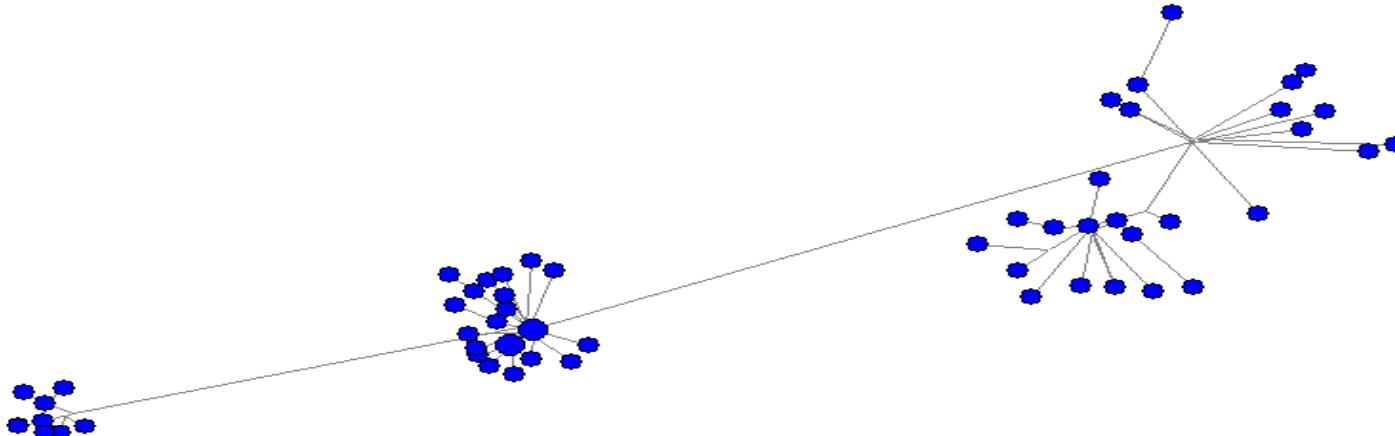


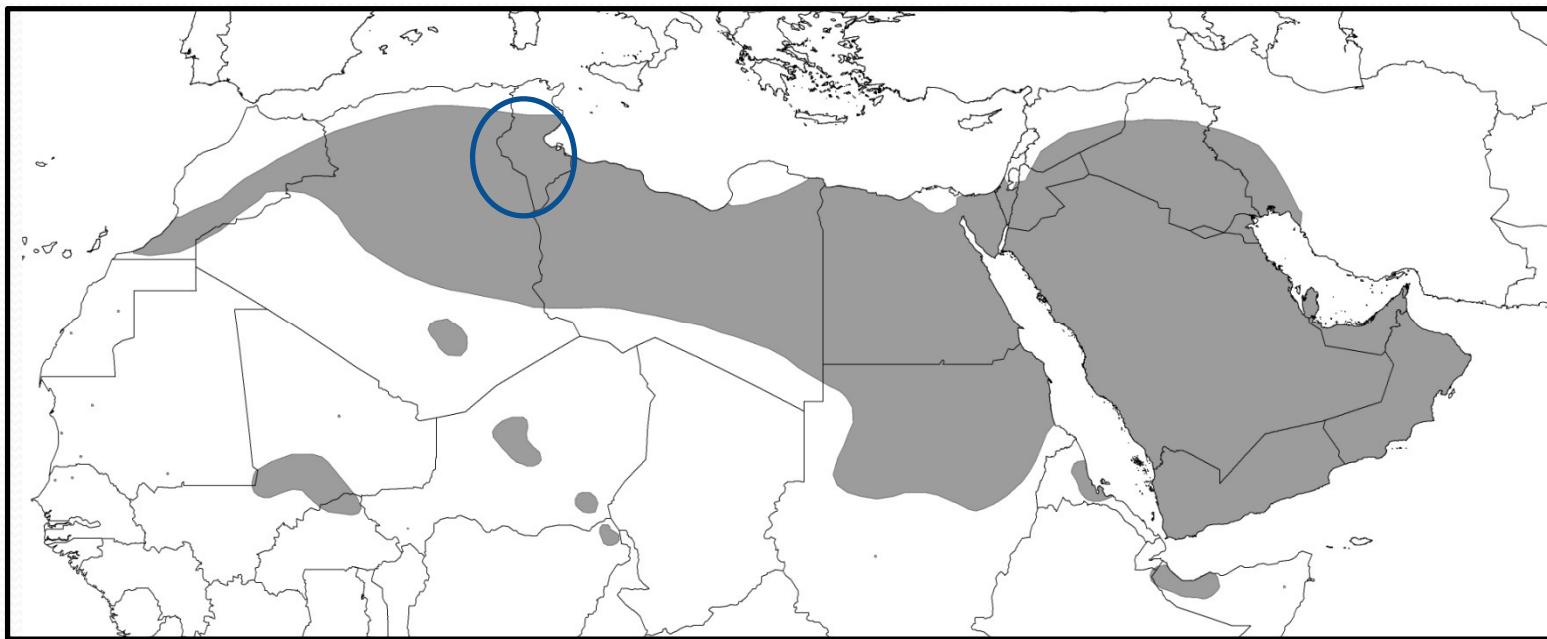
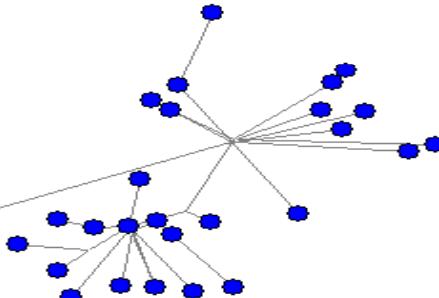
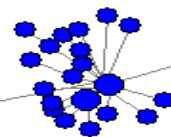
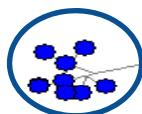


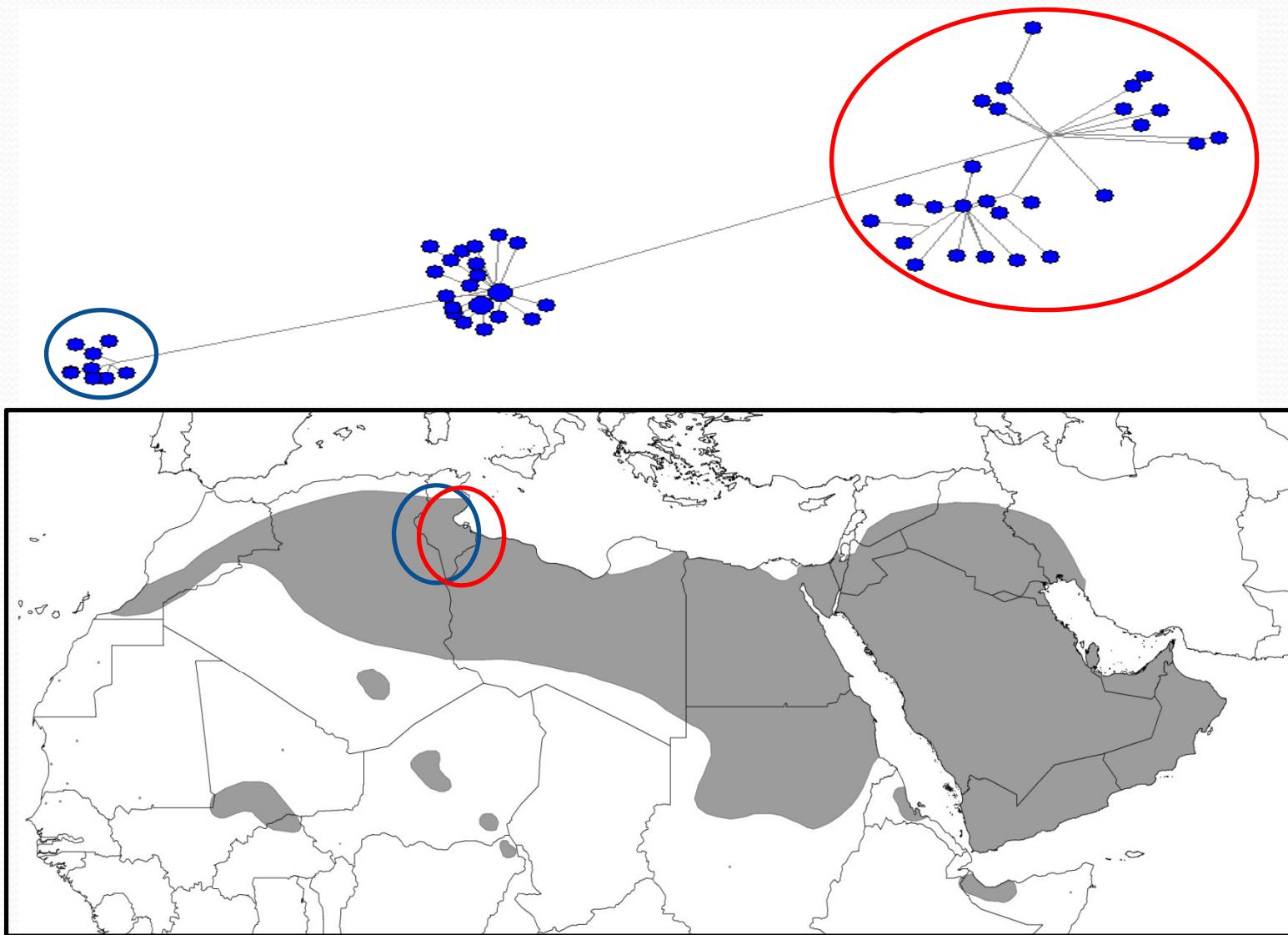


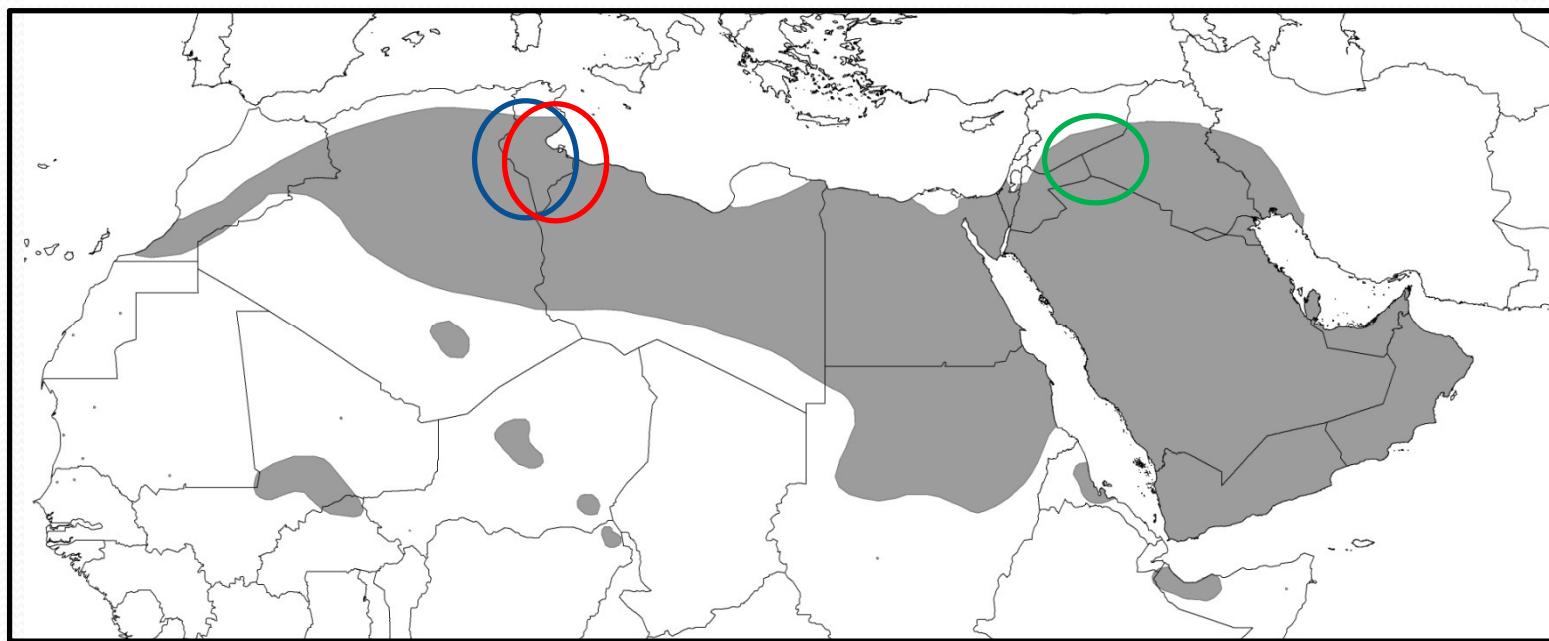
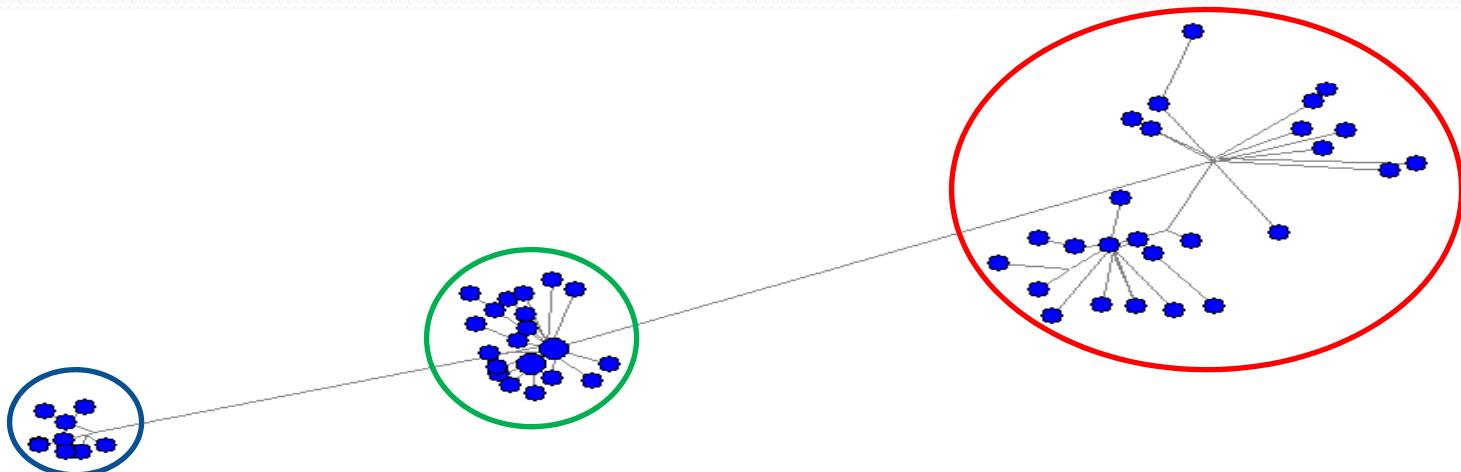
Jaculus jaculus











Allactaga euphratica



Classification	Total number of extant species named before 1 July 1992	New Extant Species Observed
Class Mammalia	5080	341
Order Monotremata	4	1
Order Didelphimorphia	85	7
Order Paucituberculata	5	1
Order Microbiotheria	1	0
Order Notoryctemorphia	2	0
Order Dasyuromorphia	65	6
Order Peramelemorphia	19	1
Order Diprotodontia	131	9
Order Afrosoricida	45	7
Order Macroscelidea	15	0
Order Tubulidentata	1	0
Order Hyracoidea	4	0
Order Proboscidea	3	0
Order Sirenia	4	0
Order Cingulata	20	1
Order Pilosa	9	1
Order Scandentia	20	0
Order Dermoptera	2	0
Order Primates	352	36
Order Rodentia	2113	155
Order Lagomorpha	86	5
Order Erinaceomorpha	23	1
Order Soricomorpha	398	20
Order Chiroptera	1055	78
Order Pholidota	8	0
Order Carnivora	281	1
Order Perissodactyla	16	0
Order Artiodactyla	230	9
Order Cetacea	83	2

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Order Cetacea

Family
Delphinidae

*Orcaella
heinsohni*

Beasley,
Robertson,
and Arnold
2005

Mar. Mam.
Sci. 21:378

Family
Ziphiidae

*Mesoplodon
perrini*

Dalebout et al.
2002

Mar. Mam.
Sci. 18:577



Orcaella heinsohni



2,3 m samice

2,7 m samci



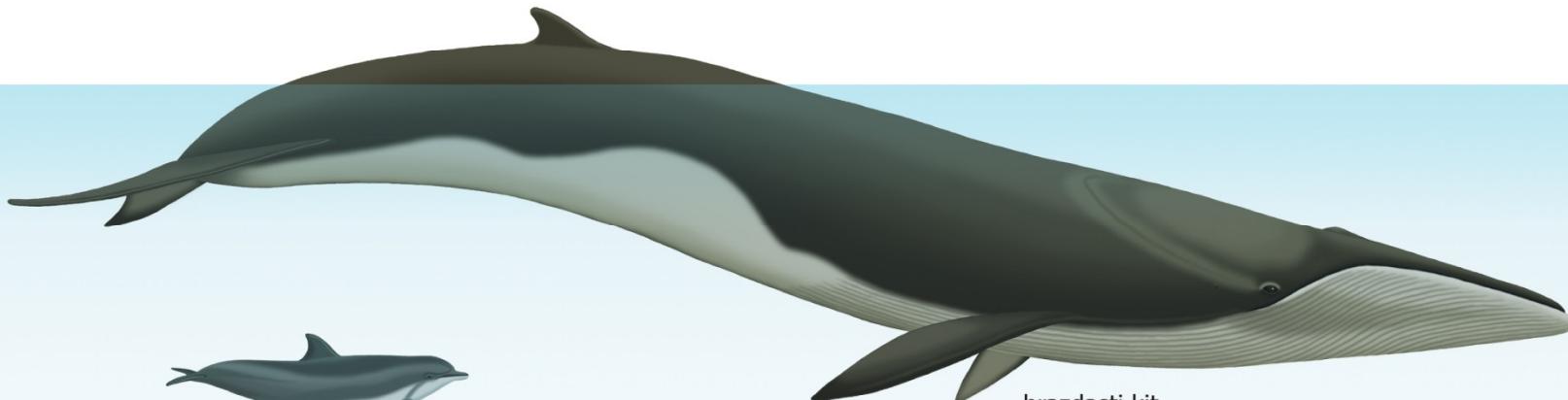
Mesoplodon perrini



4,4 m samice

3,9 m samci





Brazdasti kit v
Piranskem zalivu
avgusta 2011.
Fotografija: Rok Dolničar



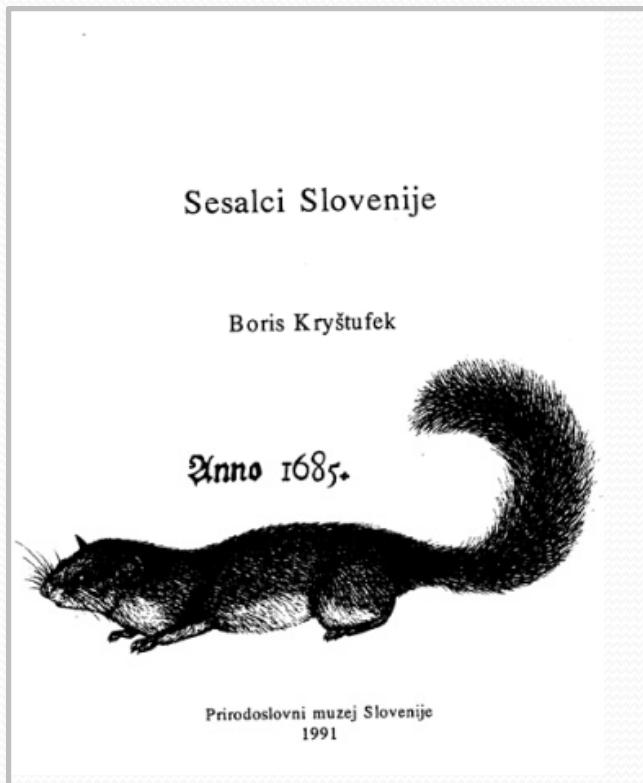
PMS 18.024

Strunjan

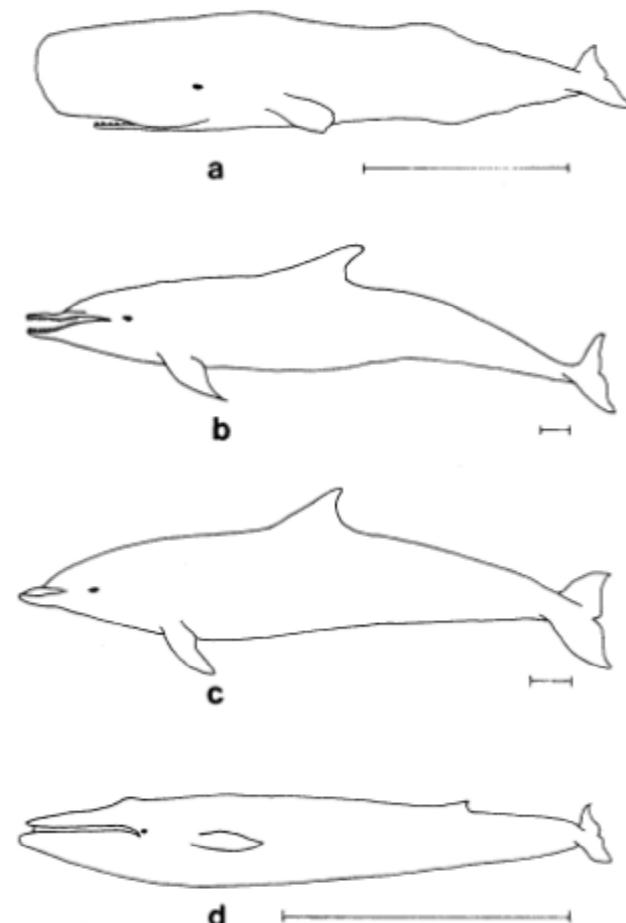
19. januar 2003

dolžina 191 cm
teža 90-100 kg

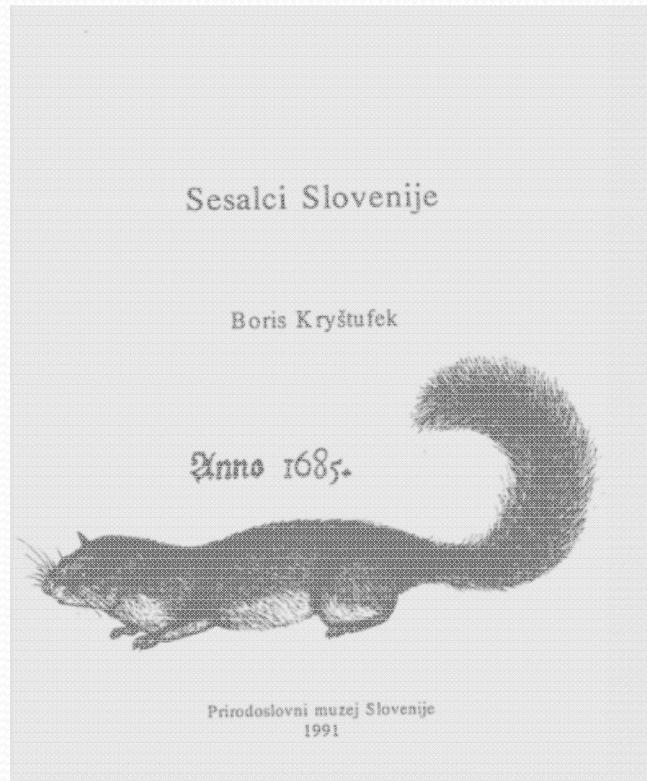




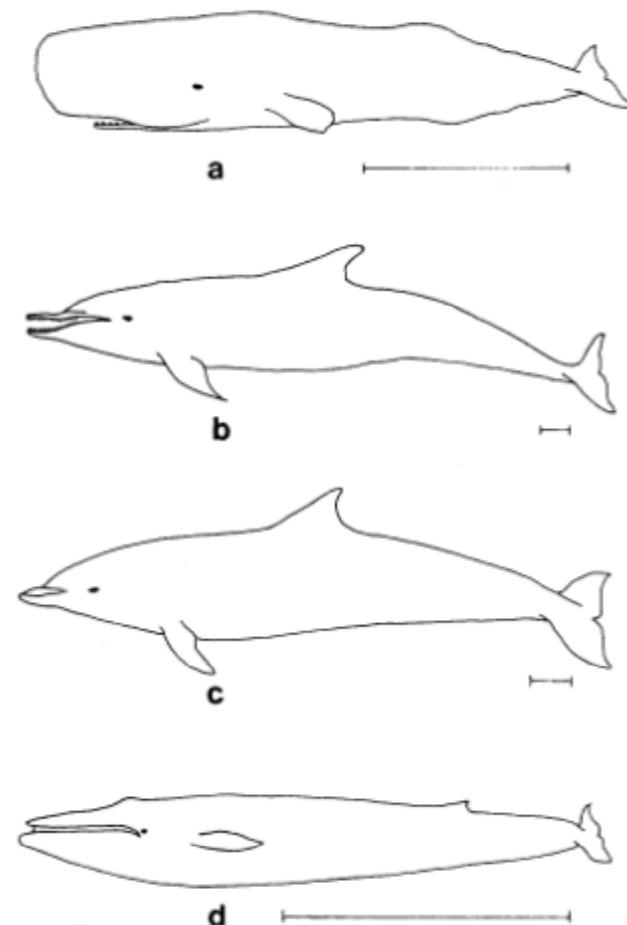
Kiti ali ribaki (Cetacea)



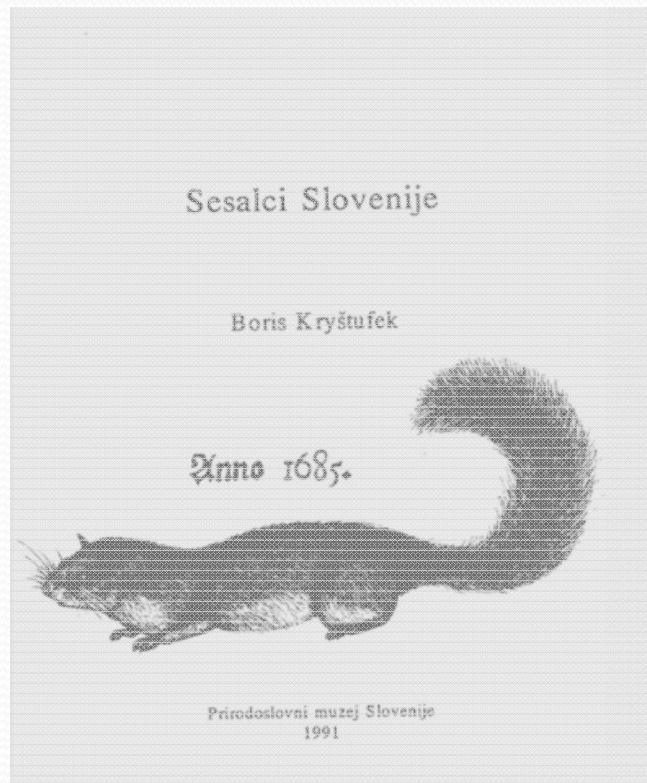
Slika 141: Kiti iz severnega Jadrana. Po dolžini črt, ki so pod njimi, lahko razberemo razmerje dolzin. a - glavač (*Physeter catodon*); b - navadna pliskavka (*Delphinus delphis*); c - velika pliskavka (*Tursiops truncatus*); d - sinji kit (*Balaenoptera musculus*).



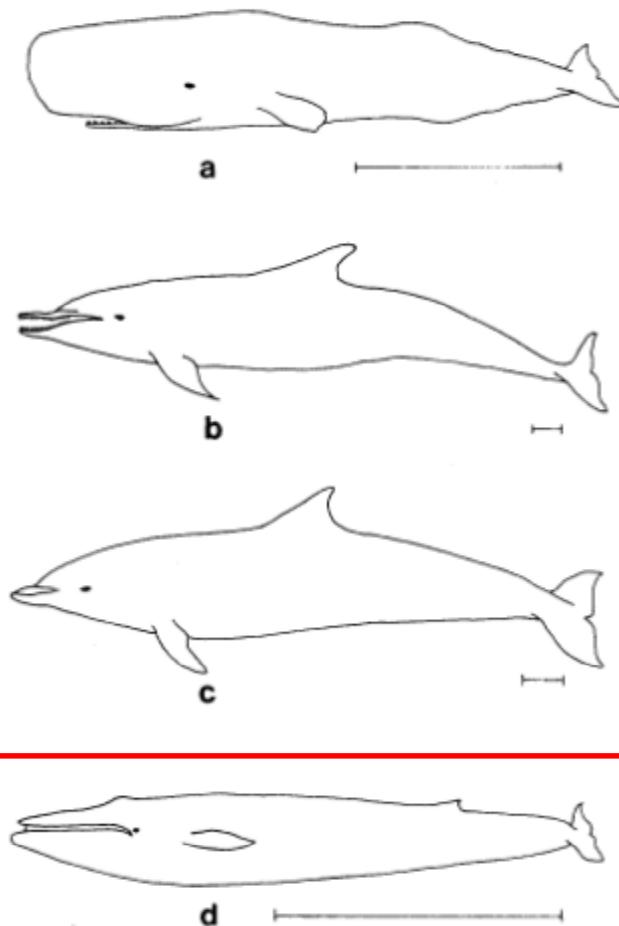
Kiti ali ribaki (Cetacea)



Slika 141: Kiti iz severnega Jadrana. Po dolžini črt, ki so pod njimi, lahko razberemo razmerje dolzin. a - glavač (*Physeter catodon*); b - navadna pliskavka (*Delphinus delphis*); c - velika pliskavka (*Tursiops truncatus*); d - sinji kit (*Balaenoptera musculus*).



Kiti ali ribaki (Cetacea)



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Sesalci Slovenije

trebuhi pa bel ali svetlo rožnat. Žival, ki je nasedla na obalo, hitro potemni. V vsaki čeljustnici je 18–26 zob s premerom 10–13 mm. S starostjo zobje izpadajo. Samec, ki je nasedel v Ankaranu, je bil dolg 288 cm in težak 270 kg. Repna plavut je bila široka 70 cm. Zobe, ki jih je bilo le še 16, je imel samo v spodnji čeljusti. To kaže na zelo staro žival.

Habitat:

Morje, zaide pa tudi v sladke vode. Rad se drži v plitvinah.

Življenje:

Samotar, med parjenjem pa se druži v manjše jate. Je počasnejši od navadne pliskavke. Hrani se z ribami in glavonožci. Brejost traja 12–13 mesecev. Spolno zrelost dosežejo z dvanajstim letom, življenska doba pa je 30 let. Populacije iz severnega Atlantika se selijo. Zelo inteligenten. V delfinarijih imajo večinoma to vrsto.

Variabilnost in podvrsta:

Leta 1867 je profesor Steenstrup kupil v Trstu kožo in skelet pliskavke iz Jadranskega morja. Na osnovi tega primerka je Van Benden leta 1886 opisal novo vrsto *Tursiops parvimanus*. Od velike pliskavke naj bi se ločila po manjšem telesu, manjših zobeih (oboje kaže, da je šlo morda za mlado žival), v prednjih okončinah pa je najdaljši tretji prst (pri veliki pliskavki je najdaljši drugi prst). Ellermann in Morrison-Scott (1966) sta označila sistematski položaj tega delfina kot negotov (*incertae sedis*). Čeprav ni verjetno, da bi bila jadranska pliskavka (ime je za *T. parvimanus* vpeljal Brusina, 1889) samostojna vrsta, pa vse nejasnosti v zvezi z njo le še niso pojasnjene.

V Sredozemlju živita dve podvrsti velike pliskavke: *T.t. truncatus* (Montagu, 1821), ki je bila opisana po primerkih iz Anglije, in *T.t. ponticus* Bobrinskii, 1944, ki poseljuje Črno morje. Pri nas se verjetno pojavlja nominatna podvrsta.

Družina: Brazdasti kiti (Balenopteridae)

Dva rodova brazdastih kitov s šestimi vrstami bomo našli v vseh morjih in oceanih. V Jadranu so doslej zašle tri vrste brazdastih kitov, ki pripadajo enemu samemu rodu, to je *Balenoptera* Lacepede, 1804.

Sinji kit – *Balenoptera musculus* (Linnaeus, 1758)

Razširjenost:

Živi v vseh morjih in oceanih. V Jadranu, kamor zaide le izjemoma, je nasedel

Kiti ali ribaki (Cetacea)

Razširjenost v Sloveniji:

V knjigo je vključen na osnovi Brusinove navedbe za Milje (Brusina, 1889).

Opis:

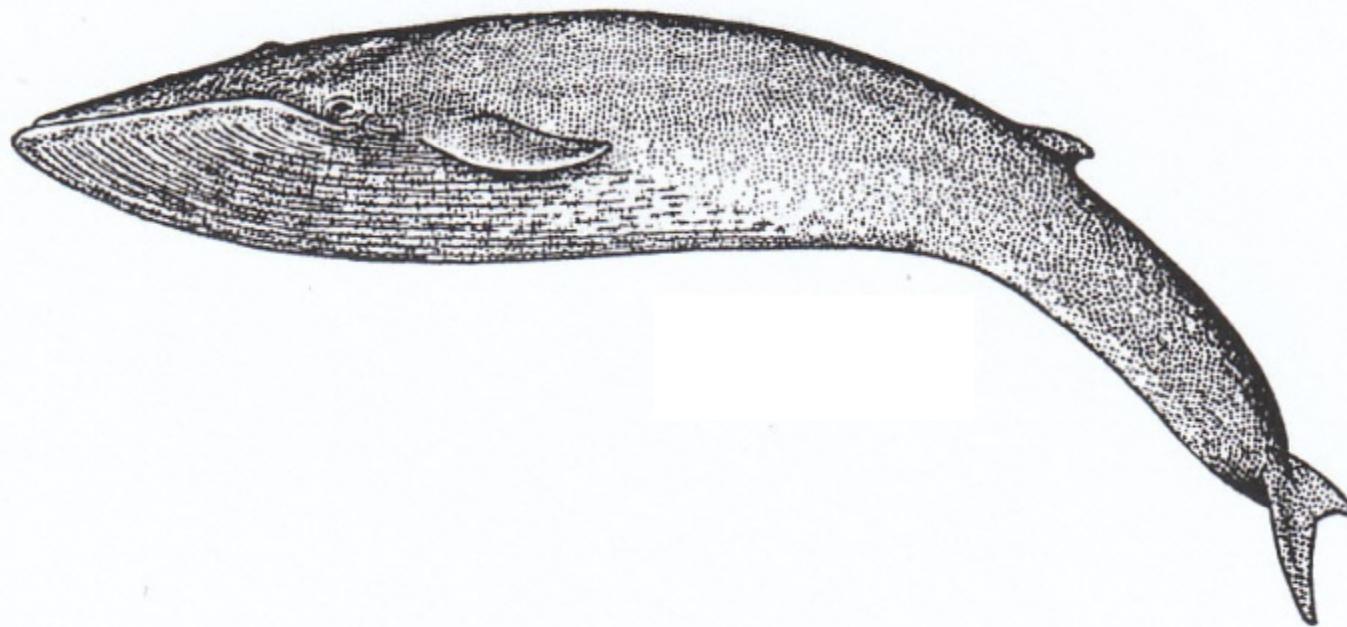
Največja žival, kar jih je kdaj živel. Doseže dolžino celo do 30,5 m (navadno ne prek 28 m). Samci so manjši od samic, dolgi do 24 m. 27-metrska žival tehta 120 ton. Glava je zelo velika, saj odpade nanjo kar četrtina celotne dolžine. Koža je temno modra s številnimi belimi lisami na bokih in trebuhi. Temni vosi so kratki in široki.

Življenje:

Hiter plavalec, ki doseže do 30 vozov (55 km/h). Poleti se zadržujejo v topih vodah, kjer kotijo mladiče, pozimi pa odplavajo v polarme vode in se tam hranijo. Živijo predvsem od planktonskih rakov. Brejost traja 6–7 mesecev, mladič pa je eden ali redkeje dva. Samica koti vsako drugo leto. Spolno zrelost dosežejo v osmem do desetem letu, življenska doba pa je 80 let. Kitolov je to vrsto že skoraj povsem iztrebil.

Opombe:

Nekateri avtorji uvrščajo sinjega kita v rod *Sibbaldus* Gray, 1864.



- Št. brazd
- Št. vosov
- Barva glave

sinji kit

55-88

270-395

simetrična

brazdasti kit

50-100

260-480

asimetrična

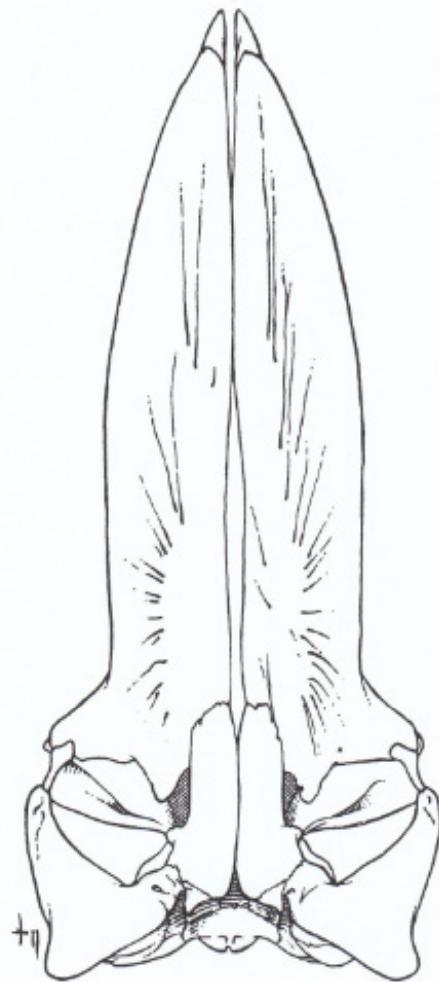
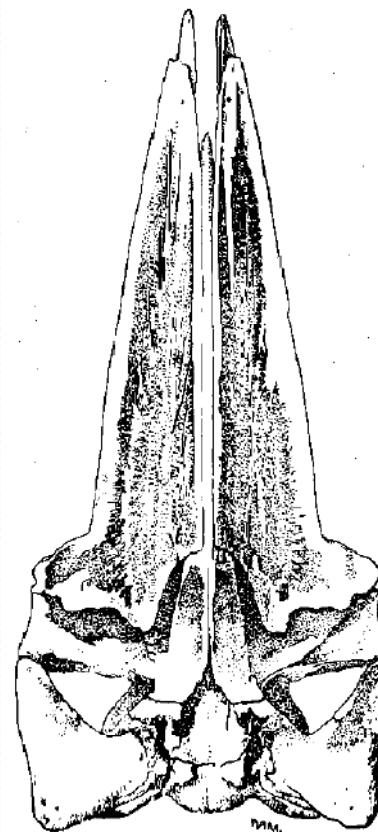


Fig. 461. *Sibbaldus musculus*, vicinity of Balaena Station,
Hermitage Bay, Newfoundland, No. 49757 U.S.N.M.,
♂. Ventral view, X $\frac{1}{4}$.

Sinji kit

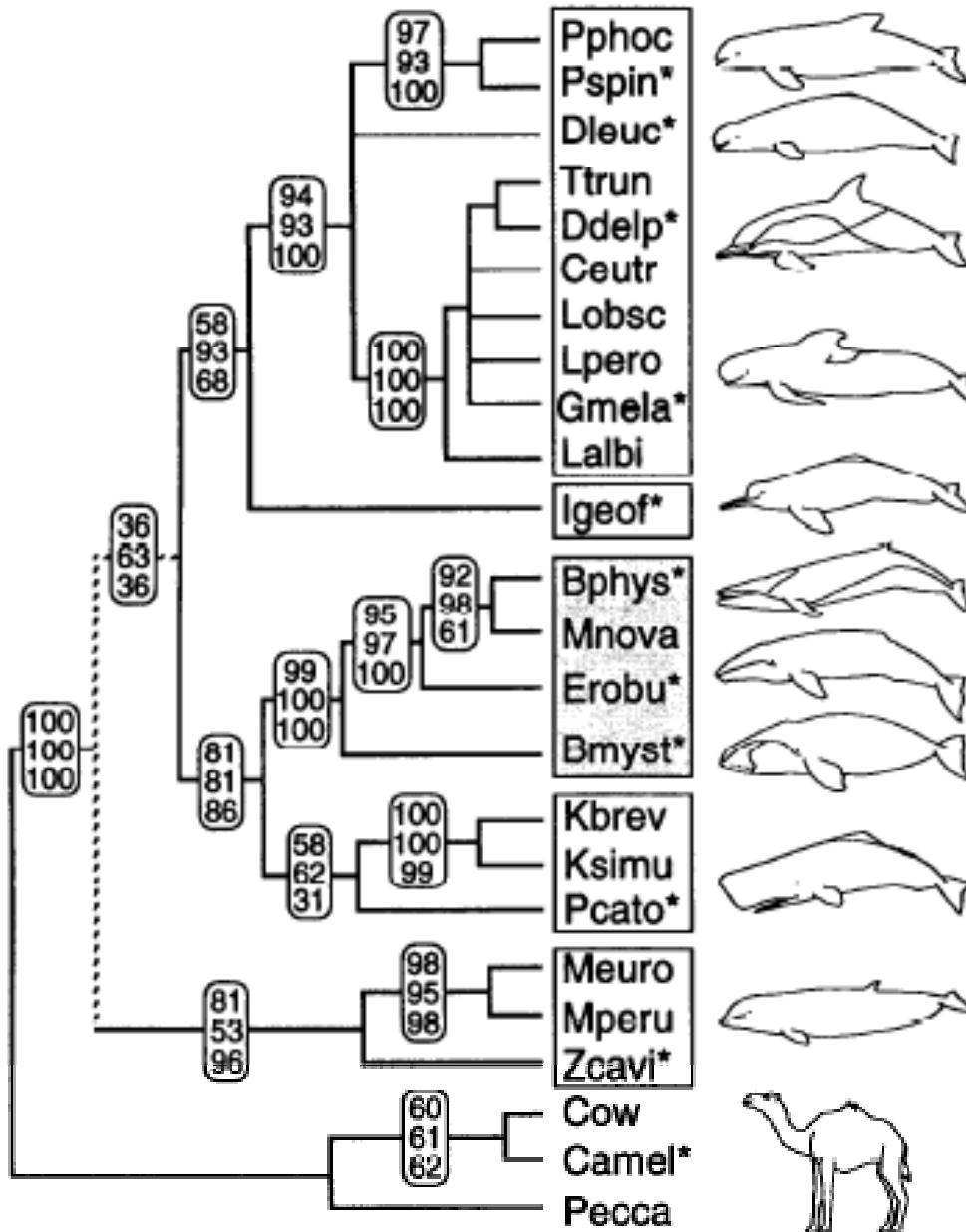


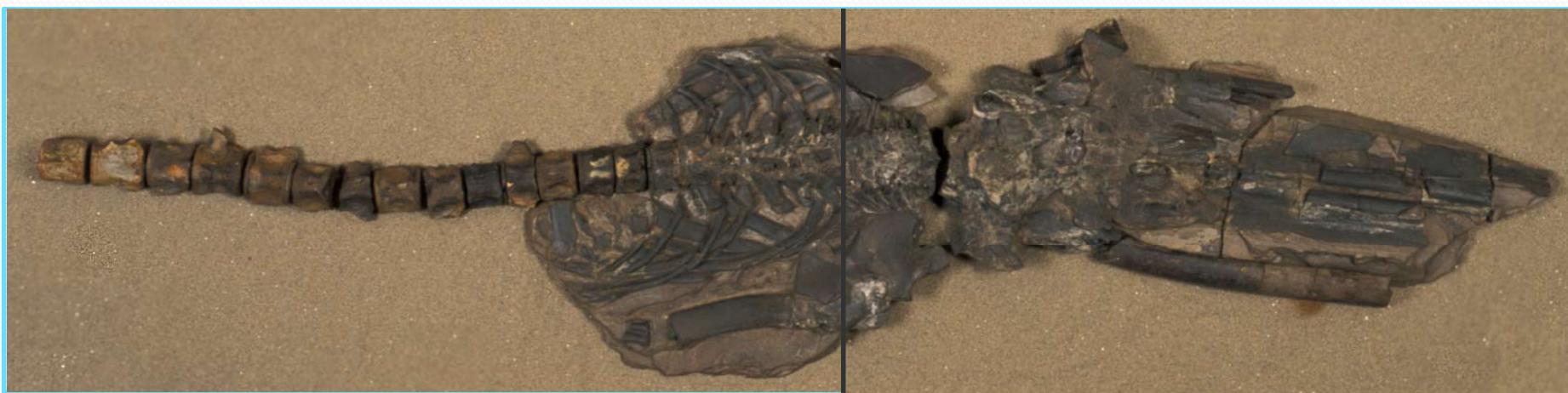
Brazdasti kit



mgr. Matija Križnar: Fosilni kiti







Balaenoptera acutorostrata cuvierii
Benedikt, Slovenske gorice
Miocen

GenBank Accession Number FJ767748)

ATG ACA ATC ATC CGA AAA AAA CAC CCA CTA ATC AAA ATC ATT AAC CAC TCA
TTC ATC GAC CTC CCT GCC CCA TCA AAC ATC TCA TCA TGG TGA AAC TTC GGC
TCC CTA CTA GGC CTT TGC CTA ATC ATC CAA ATT CTC ACA GGA TTA TTC CTA
GCT ATA CAC TAC ACA TCA GAC ACA GCA ACA TTC TCA TCA GTA ACC CAT
ATC TGC CGA GAC GTG AAC TAC GGC TGA CTA ATC CGA TAC ATA CAT GCC AAC
GGA GCT TCA ATA TTC TTC ATC TGC CTA TTC CTA CAC GTA GGA CGA GGA ATT
TAC TAC GGC TCC TAC AAC ATA ATC GAA ACA TGA AAC ATA GGA ATT ATC CTA
CTA TTC GCC GTG ATA GCT ACA GCA TTT ATA GGT TAC GTA CTA CCA TGA GGC
CAA ATA TCA TTC TGA GGT GCC ACA GTC ATT ACA AAC CTA CTA TCA GCT ATC
CCC TAC ATC GGC ACT ACA CTA GTA GAA TGA ATC TGA GGC GGA TTC TCA GTA
GAT AAA GCT ACC CTA ACC CGA TTC TTC GCC TTC CAC TTT ATC CTA CCC TTT ATT
ATT ACC GCC CTT GTA CTA GTC CAC CTC CTC TTC CTT CAC GAA ACA GGA TCC
AAC AAC CCG ACT GGA CTA AAC TCA GAT GCA GAC AAA ATT CCA TTC CAC CCA
TAT TAT ACA ATC AAA GAC TTC TTA GGA GTC CTT ATC CTA TTA ATA GCT TTC ATA
ATT TTG ACT TTA TTT TTC CCA GAT ATT CTC GGA GAC CCC GAC AAT TAC ACC CCT
GCA AAT CCA CTC AAC ACT CCA CCA CAC ATC AAG CCA GAA TGA TAT TTC CTA
TTT GCC TAC GCC ATC TTA CGA TCC ATC CCC AAC AAA CTA GGC GGC GTA CTA
GCC CTA ATC CTA TCA ATT GTA ATC CTA GCA TTA ATA CCA TTG CTC CAT ACC TCA
AAA CAA CGA GCA CTA ACT TTC CGC CCA ATC ACA CAA ACA ATG TAC TGA ATC
CTG GTA GCC GAC CTC CTT GTC CTT ACA TGA ATC GGA GGA CAA CCA GTT GAA
TAC CCA TTC ATC ATC ATT GGC CAA ACA GCT TCA ATT GCC TAC TTC GCT ATC
ATC GTC ATC CTC ATA CCA ATA GCA GGC ATA ATT GAA AAC GAC ATT ATA GAT
CTA GAT



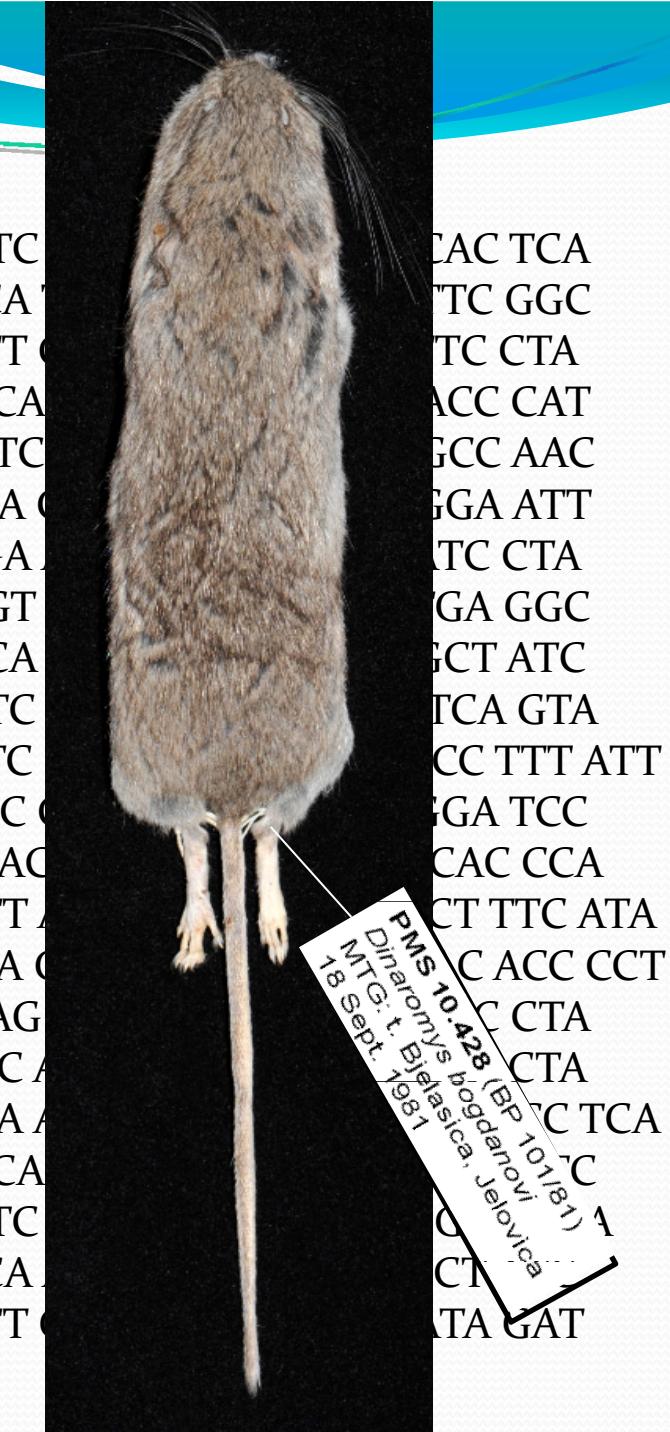
GenBank Accession Number FJ767748

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ATC TGC CGA GAC GTG AAC TAC GC
GGA GCT TCA ATA TTC TTC ATC TG
TAC TAC GGC TCC TAC AAC ATA ATC
CTA TTC GCC GTG ATA GCT ACA GC
CAA ATA TCA TTC TGA GGT GCC ACA GTC ATT ACA AAC CTA CTA TCA GCT ATC
CCC TAC ATC GGC ACT ACA CTA GTA GAA TGA ATC TGA GGC GGA TTC TCA GTA
GAT AAA GCT ACC CTA ACC CGA TTC TTC GCC TTC CAC TTT ATC CTA CCC TTT ATT
ATT ACC GCC CTT GTA CTA GTC CAC CTC CTC TTC CTT CAC GAA ACA GGA TCC
AAC AAC CCG ACT GGA CTA AAC TCA GAT GCA GAC AAA ATT CCA TTC CAC CCA
TAT TAT ACA ATC AAA GAC TTC TTA GGA GTC CTT ATC CTA TTA ATA GCT TTC ATA
ATT TTG ACT TTA TTT TTC CCA GAT ATT CTC GGA GAC CCC GAC AAT TAC ACC CCT
GCA AAT CCA CTC AAC ACT CCA CCA CAC ATC AAG CCA GAA TGA TAT TTC CTA
TTT GCC TAC GCC ATC TTA CGA TCC ATC CCC AAC AAA CTA GGC GGC GTA CTA
GCC CTA ATC CTA TCA ATT GTA ATC CTA GCA TTA ATA CCA TTG CTC CAT ACC TCA
AAA CAA CGA GCA CTA ACT TTC CGC CCA ATC ACA CAA ACA ATG TAC TGA ATC
CTG GTA GCC GAC CTC CTT GTC CTT ACA TGA ATC GGA GGA CAA CCA GTT GAA
TAC CCA TTC ATC ATC ATT GGC CAA ACA GCT TCA ATT GCC TAC TTC GCT ATC
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CTA GAT



GenBank Accession Number FJ767748)

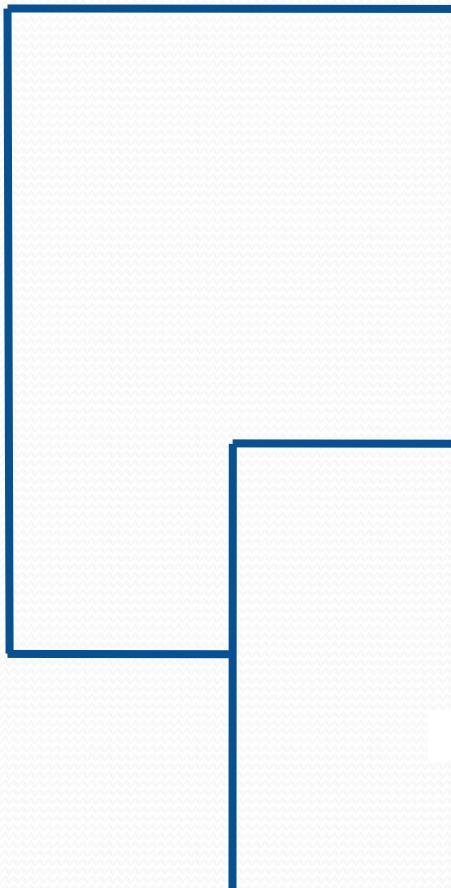
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TCC CTA CTA GGC CTT TGC CTA ATC ATC CAA ATT C
GCT ATA CAC TAC ACA TCA GAC ACA GCA ACA GCA
ATC TGC CGA GAC GTG AAC TAC GCC TGA CTA ATC
GGA GCT TCA ATA TTC TTC ATC TGC CTA TTC CTA C
TAC TAC GGC TCC TAC AAC ATA ATC GAA ACA TGA
CTA TTC GCC GTG ATA GCT ACA GCA TTT ATA GGT
CAA ATA TCA TTC TGA GGT GCC ACA GTC ATT ACA
CCC TAC ATC GGC ACT ACA CTA GTA GAA TGA ATC
GAT AAA GCT ACC CTA ACC CGA TTC TTC GCC TTC



V srednjem veku so ljudje mislili, da je njihova usoda zapisana v zvezdah

V srednjem veku so ljudje mislili, da je njihova usoda zapisana v zvezdah

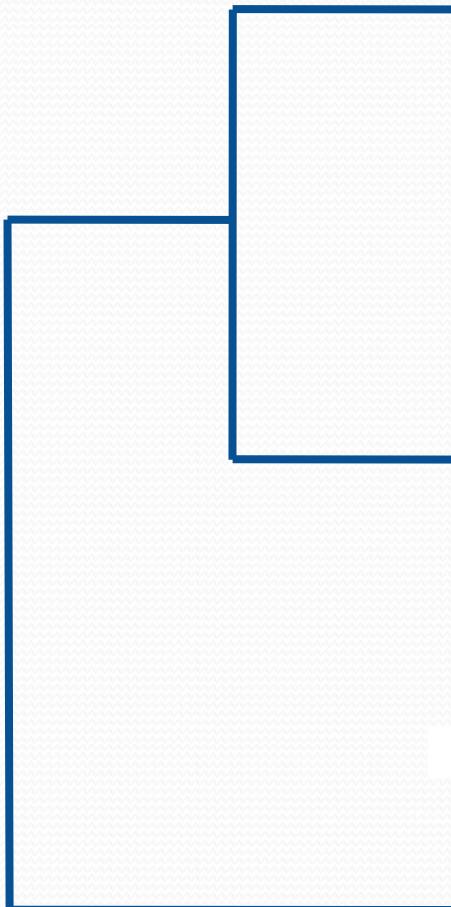
danes mislimo, da je zapisana v genih



Aljaska

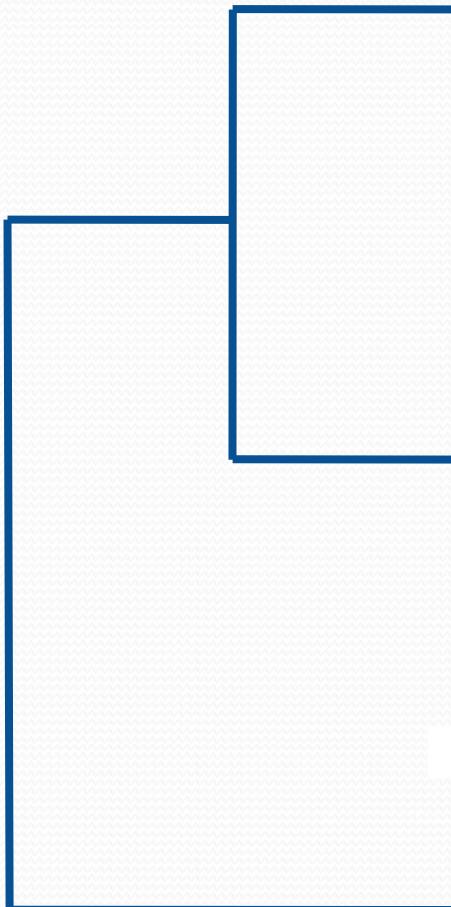


Evropa



Aljaska

Evropa

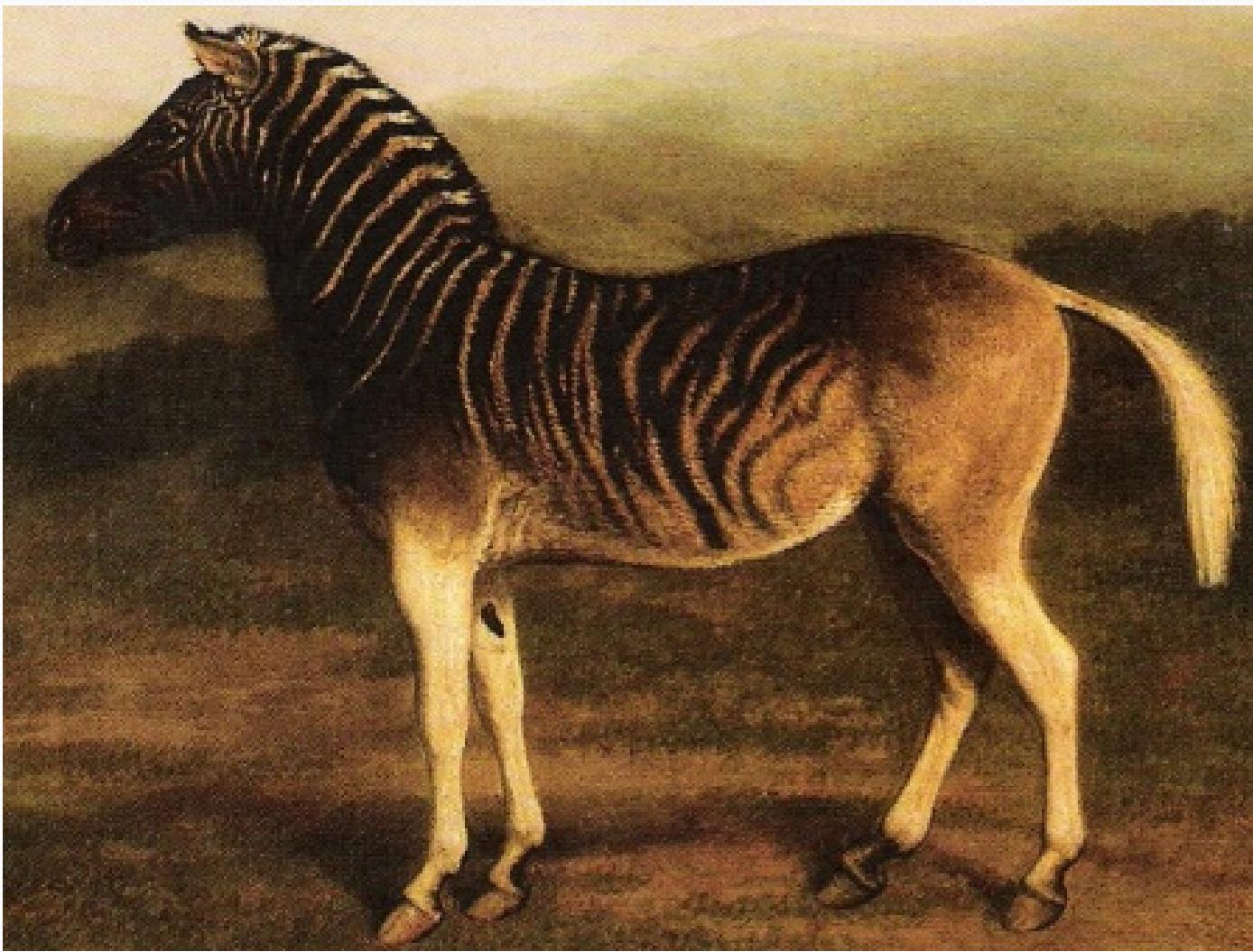


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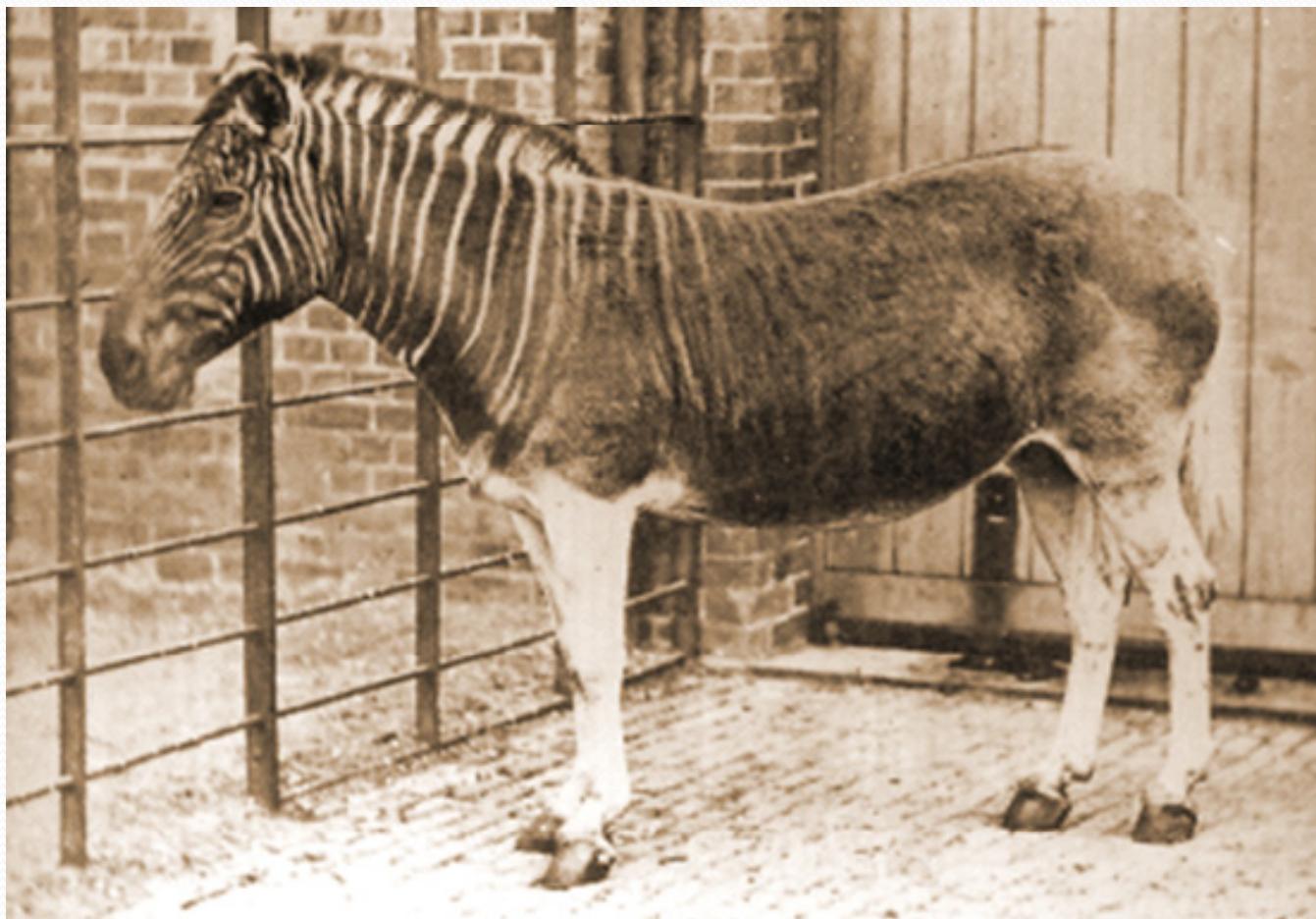
Evropa

Kvaga *Equus quagga*

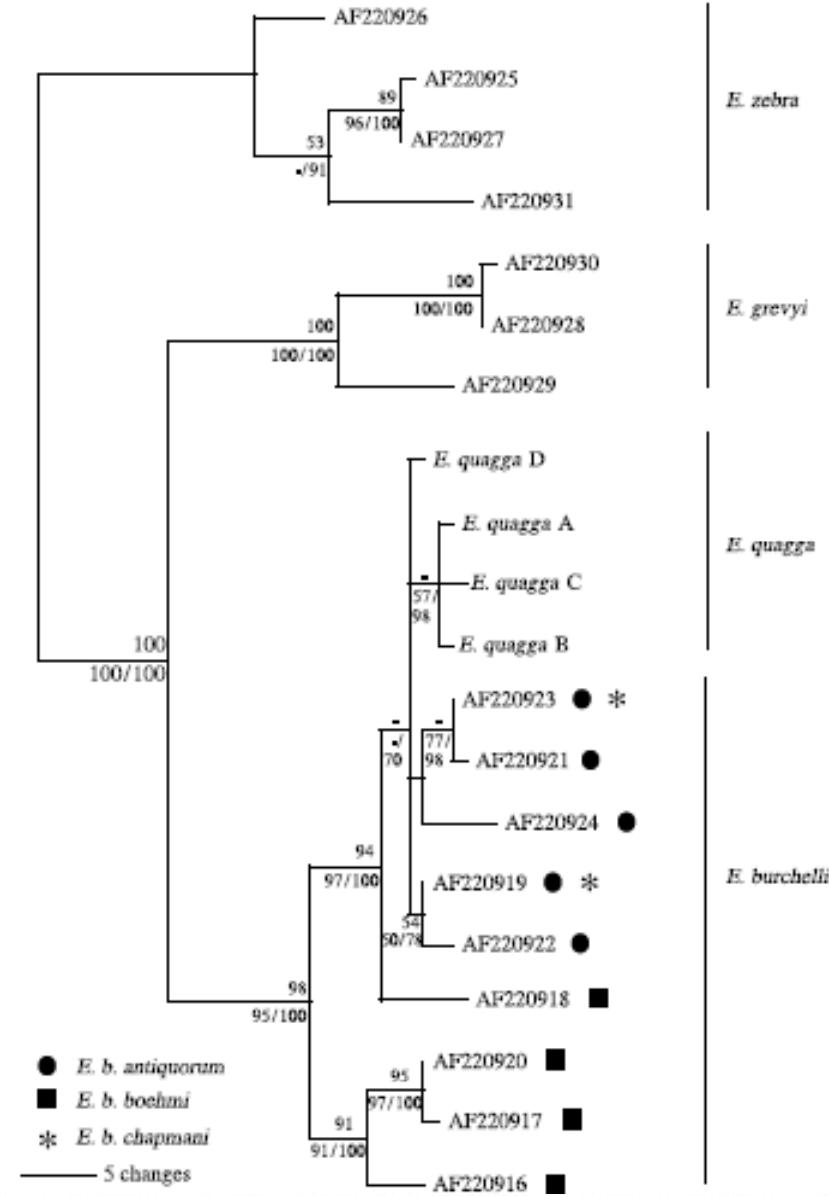


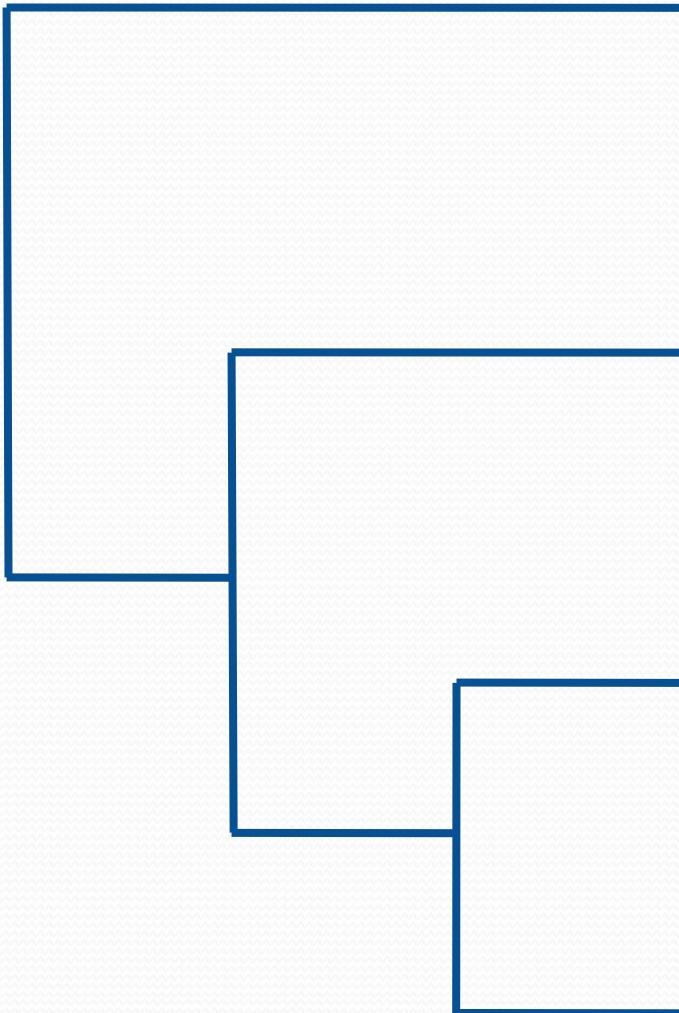


Regent's Park Zoo, London 1870









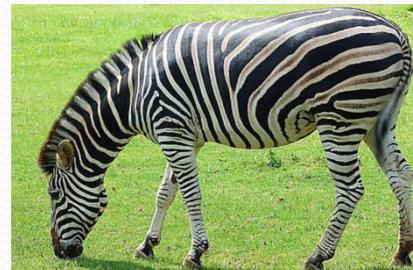
E. zebra



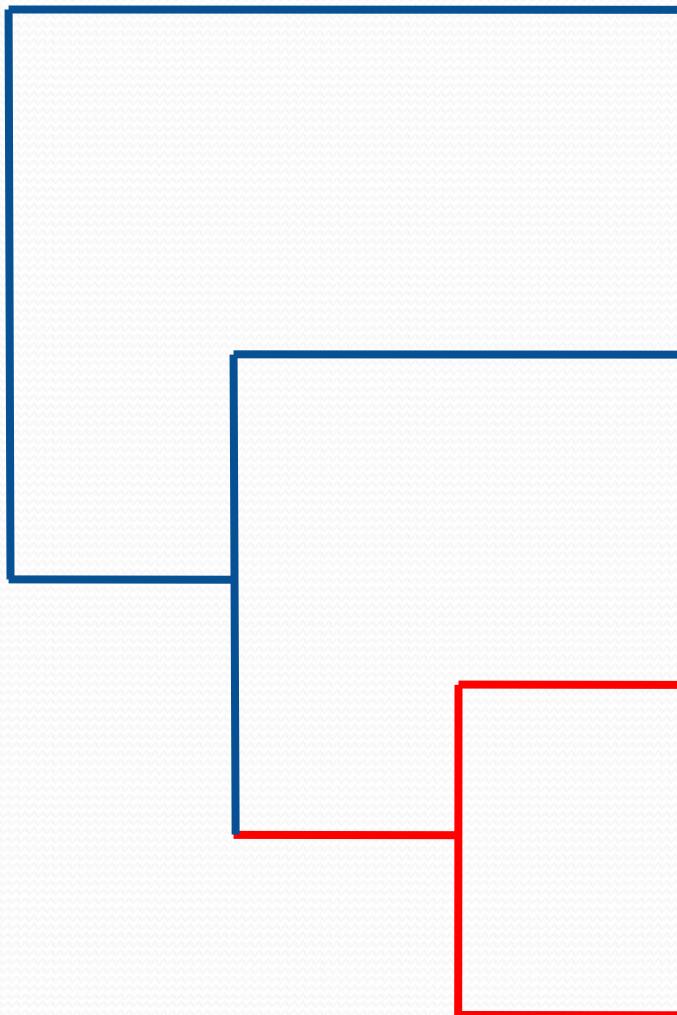
E. grevyi



E. quagga



E. burchelli



E. zebra



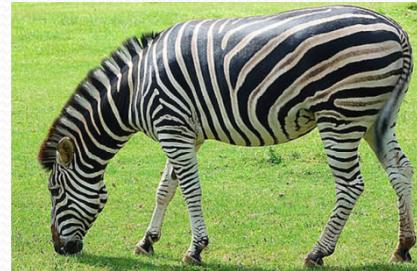
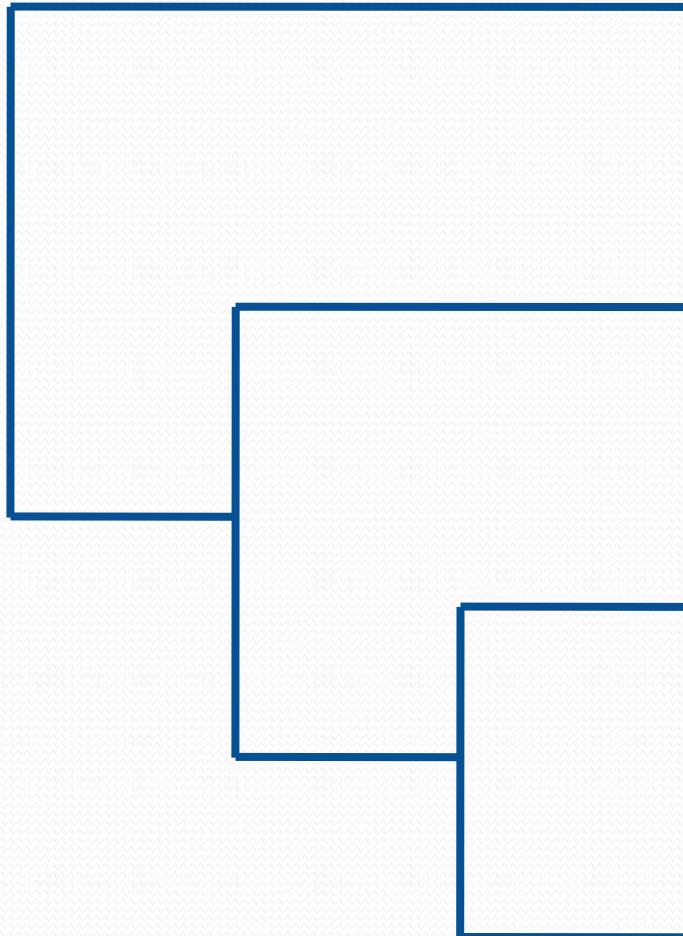
E. grevyi



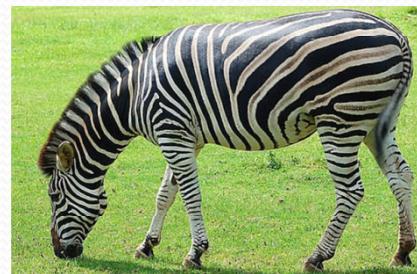
E. quagga



E. burchelli



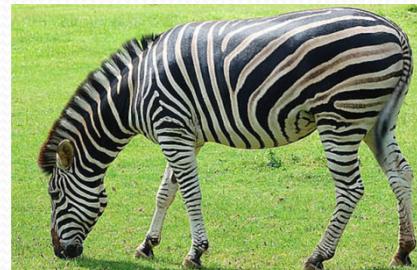
E. burchelli



E. burchelli



E. quagga



E. burchelli

Planinski pupek

Mesotriton alpestris



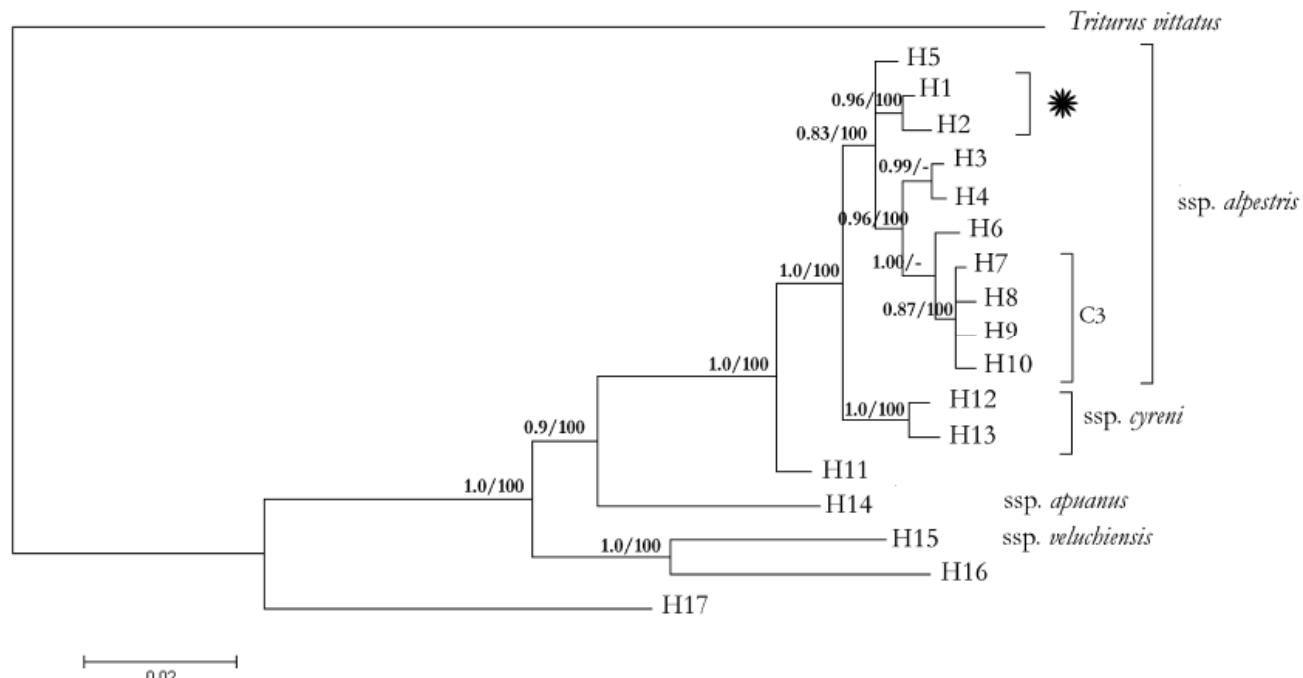
podvrsta *Mesotriton alpestris lacusnigri*





Mitochondrial sequences do not support the independent taxonomic position of the extinct Alpine newt subspecies *Mesotriton alpestris lacusnigri*

Martina Lužnik*, Elena Varljen Bužan, Boris Kryštufek





NATURAL SCIENCE COLLECTIONS

Informing Climate Change and Biodiversity



Climate change and biodiversity conservation are major issues of concern to the public and policymakers. Informed policy and economic responses to these challenges require timely and accurate scientific information. Natural science collections, such as those at public and private natural history museums, government laboratories, or university-based research centers provide this knowledge, and help point us toward solutions to preserving America's climate-dependent economic resources and protecting the country's astounding natural beauty.

Conserving Biodiversity

Natural science collections chronicle Earth's biological diversity, past and present.

- In 2004, resource managers at Everglades National Park could not locate Miami blue or Atala hairstreak butterflies. The park's natural science collections showed that these species had once existed in the park. The National Park Service launched an initiative to restore these butterflies to the park, attracting visitors to see the rare butterflies.
- In only 10,000 years, the climate of Bighorn Basin, Wyoming, went from one similar to Florida to one like southern Mexico. Scientists are using fossil plants stored at natural science collections to study patterns of plant migration and death during this period. This information may inform current plant conservation strategies for responding to climate change.
- Biodiversity data provided by natural science collections are irreplaceable and available through no other scientific resources or endeavors. Protecting such resources is necessary to maintain accurate records of Earth's natural history.



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Validation of biological collections as a source of phenological data for use in climate change studies: a case study with the orchid *Ophrys sphegodes*

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Museum collections: Mining the past to manage the future

Karen R. Lips¹

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We are in the midst of the sixth mass extinction (1), and we are watching species disappear faster than we can describe them (2). Three of the major drivers of extinction, emerging infectious diseases (3), invasive species (4), and threats from climate change (5), are especially difficult to address because of their rapid spread, broad geographic effects, and widespread impacts on entire classes (6) or ecosystems (7). We urgently need a better catalog of the abundance and distribution of species on the planet and a broader understanding of biotic (e.g., parasites, diseases, seed dispersal, pollination, predation, and competition) and abiotic (e.g., ecophysiology and climate change) factors that influence species biology. Achieving this requires more field biologists, more collections, and more



Fig. 1. An undescribed species of *Diasporus* from El Cope, Panama.

spread of *Bd* in these areas (13, 14). Closer to home, this technique will be especially useful in reconstructing the history of *Bd* in the United States. *Bd* is currently found throughout the country

of *Bd* and determine whether its spread has negatively affected the distribution of amphibian species (19) and if it has caused a corresponding increase in the distribution of *Jliv*. More generally, knowing where *Bd* and *Jliv* occur today, how they interact, and where they occurred in the past will help us understand the spread of both across the landscape and may help us keep *Bd* out of as yet uninfected areas such as Madagascar and Papua New Guinea.

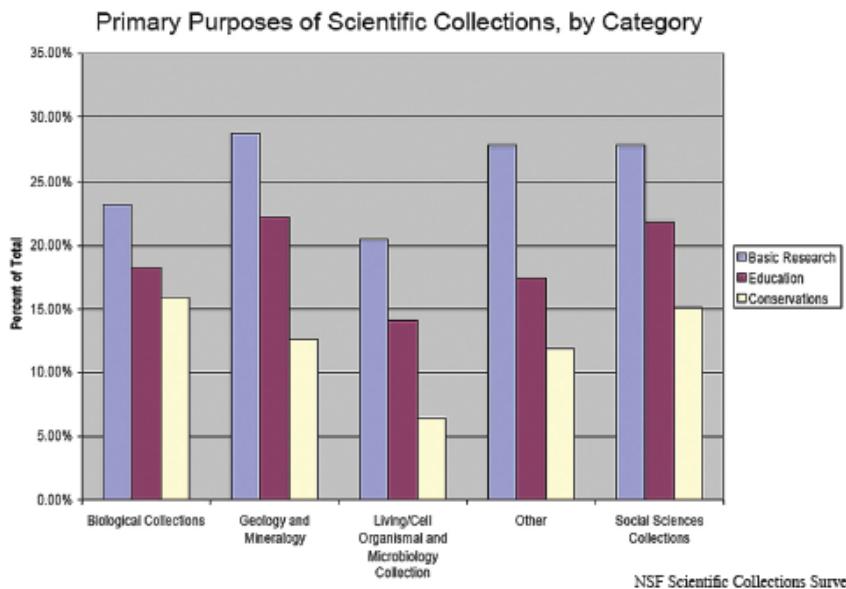
However, despite the promising applications of this (8) tool, we are still limited in quantifying the true effect of *Bd* on amphibian biodiversity, and this hampers effective conservation efforts (Fig. 1). We lack information on population demography for most amphibian species and from many habitats around the world. We cannot understand population decline and

NATURAL SCIENCE COLLECTIONS

America's Great Scientific Resource

Natural science collections are essential infrastructure supporting the nation's scientific research and development enterprise. The collections gathered and held by many institutions over the past half millennium are fundamental reference points for measuring and monitoring human health, safety, and the state of our planet. They are essential to the advancement of research in the biological, earth, environmental, and social sciences.

Collections Are Essential Support for Research



Natural science collections are vital research infrastructure that outlast the projects that created them.

- Collections provide irreplaceable evidence of historical trends and unique historic events. Specimens sometimes have been collected from areas that are no longer accessible, making their collection and storage essential for future scientific studies in certain subject areas.
- Scientific research may be called into question years after their publication and only well-maintained collections will allow researchers to replicate experiments and successfully review past findings.

- Replacing existing collections would have enormous costs or be altogether impossible for many specimens,

Replacing existing collections would have enormous costs or be altogether impossible for many specimens,

Nadomestiti obstoječe zbirke bi bilo povezano z velikanskimi stroški, za mnoge vrste pa to sploh ni mogoče ...



C

Hyracoidae
Pholidota

C

Felidae
(Domestic)

D

Arctoidea
Canidae

D

Arctoidea
Canidae

E

Arctoidea
Canidae

E

Arctoidea
Canidae

F

Arctoidea
Canidae

F

Arctoidea
Canidae

G

Arctoidea
Canidae



A large whale skeleton is suspended from the ceiling of a building with a dark blue and grey wall. The skeleton is oriented diagonally, with its long, curved dorsal fin pointing upwards and to the right. Its long, slender body extends downwards and to the left, ending in a large, fluke-shaped tail. The ribcage is clearly visible, along with the pectoral fins and the long, thin tail fin. The bones are a light tan or beige color.

HVALA

**ZA
POZORNOST**