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## Type catalogue of reptiles in the Zoologische Staatssammlung München

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We provide a first complete list of the present and lost reptile type material of the Zoologische Staatssammlung München (ZSM) and discuss various problems involved.

The collection currently houses primary types of 184 taxa (128 holotypes, 44 lectotypes, and 12 taxa based on syntype series), 112 of them currently considered valid. Furthermore, 63 taxa are exclusively represented by secondary types (paratypes, paralectotypes). The ZSM collection strongly suffered from losses during World War II. Approximately 90 primary reptile type specimens or primary type series are considered to be destroyed during that time.

The historical focus of the collection is the South American region. This is primarily based on material collected by Spix and Martius during their expedition to Brazil from 1817 to 1820. Primary types of 83 reptile taxa were collected during this expedition – approximately half of them described by J. G. Wagler – but currently specimens of only 53 taxa are still present in Munich. Subsequently, herpetological research in South America was continued during the first half of the 20<sup>th</sup> Century by L. Müller und W. Hellmich, who deposited primary type material of 95 reptile taxa (49 from South America, among them 26 of the iguanid genus *Liolaemus*) in the ZSM, 47 of them still represented by primary types.

Another geographical focus of the reptile type collection is the Mediterranean area, the Macaronesian region and the Middle East with a total of 46 extant primary types. Herpetological research in this area dates back to descriptions by G. Jan in 1863 and was continued by L. Müller, H. H. Schleich, A. Beutler, and especially J. F. Schmidler and their respective collaborators.

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### Introduction and historical development of the reptile type collection

The Zoologische Staatssammlung München (ZSM) is one of the major natural history collections in Germany. A short history of the herpetological collection was already given by Gruber (1992) and Glaw & Fuchs (2001). The collection dates back to the early 19th century and is primarily based on material obtained by Johann Baptist von Spix and Carl Friedrich Philipp von Martius during their expedition to Brazil 1817–1820. The entire herpetological works of Spix and Wagler resulted in a total of 95 newly described taxa (83 primary types of the South American expedition originally housed in ZSM),

with currently 56 extant holo- and lectotypes. Only 19 of the 52 taxa described by Spix are currently considered valid, whereas 23 of the 43 names by Wagler are still in use.

Other early herpetologists that described reptilian taxa based on material in the collection are Giorgio Jan (1858–1872; 8 primary types, 5 extant) and Franz Werner (1897–1930; 18 primary types, 8 extant).

The first half of the 20<sup>th</sup> century was dominated by the works of Lorenz Müller and resulted in the designation of 84 primary types of which only 40 are still extant. This includes 23 taxa (types of 22 extant) based on works in collaboration with his successor Walter Hellmich. Later, W. Hellmich

continued Müller's work on the South American tropidurid genus *Liolaemus* and described five more taxa in addition to 21 species and subspecies that have been described together with L. Müller.

More recent authors which deposited material in the ZSM are Josef Friedrich Schmidler and Hans Hermann Schleich. The collection today houses nearly all type specimens of the former private collection of J. F. Schmidler, representing a total of 22 taxa. This material includes 17 holotypes (which already had been catalogued in ZSM) and several hundred paratypes. Taxa involved are mainly lacertids (current genera *Anatololacerta*, *Darveskia*, *Lacerta*, *Phoenicolacerta*), dwarf snakes of the genus *Eirenis*, and the scincid genus *Ablepharus*. H. H. Schleich and collaborators deposited primary types of 15 taxa in the ZSM, mainly North African *Mauremys leprosa* subspecies and Capeverdian *Tarentola* and *Mabuya* (currently *Chioninia*). Other more recently described taxa include Madagascan snakes and gekkonids described by Frank Glaw and collaborators (seven primary types) and *Cyrtopodion kotschyi* subspecies described by Axel Beutler and collaborators (five primary types).

We located type material of a total of 347 reptile taxa which was or still is housed in the herpetological collection. At present, 248 taxa are represented by extant type material, including 184 taxa represented by primary types (128 holotypes, 44 lectotypes, and 12 taxa based on syntype series), whereas 63 additional taxa are exclusively represented by secondary types (paratype, paralectotypes). The extant primary type material includes 22 turtle, two crocodylian, 106 lizard, and 53 snake taxa. The most frequent families involved are Iguanidae sensu lato (44 extant primary types), Colubridae (39), and Gekkonidae (18). Lacertids suffered most strongly from losses during World War II. Currently only 11 of originally 36 primary types are still present in the collection and most of the holotypes of the Balearic wall lizard subspecies (*Podarcis lilfordi*, *P. pityusensis*) described by L. Müller are presumed to be destroyed during that time. The most frequent genus in the collection is the South American tropidurid genus *Liolaemus* (Iguanidae s.l.) with 33 extant primary types or type series.

### Format and Abbreviations

This type catalogue follows the same general format as used by Glaw & Franzen (2006) in the amphibian catalogue. For taxa obtained during Spix and Martius expedition to Brazil and described by Spix and Wagler we follow the opinions and conclusions of Hoogmoed & Gruber (1983), who already provided

detailed and convincing discussions for each taxon. We refer to Glaw & Franzen (2006) regarding information on the three numbering systems of the ZSM. As in the previous catalogue underlined numbers indicate extant specimens, whereas "(lost)" immediately after a catalogue number indicates its absence.

The term "missing", after a catalogue number refers to material which is absent in the collection, in most cases due to a considerable exceeding of the loan period.

If the present name is identical to the name under which a taxon was described, the paragraph "Present name" is not listed.

AS	Private collection of Alfredo Salvador, Estación Biológica de Doñana
AMNH	American Museum of Natural History, New York
BH	Private collection of Barry Hughes, London
BMNH	The Natural History Museum, London
CAS	California Academy of Sciences, San Francisco
CS	former private collection of J. F. Schmidler, München, now ZSM
EBRG	Estacion Biologia de Rancho Grande, Museo, Maracay
FMNH	Field Museum of Natural History, Chicago
FML	Instituto Fundacion Miguel Lillo, Tucuman
GNM	Göteborgs Naturhistoriska Museum
IRSNB	Institut Royal des Sciences Naturelles de Belgique, Brussels
MCZ	Museum of Comparative Zoology, Cambridge/Mass.
MCNG	Museo Civico di Storia Naturale, Genova
MHNL	Musée d'Histoire Naturelle, Lyon
MNHN	Muséum National d'Histoire Naturelle, Paris
MNHP	National-Museum, Museum of Natural History, Prague
MNHNC	Museo Nacional de Historia Nacional, Santiago de Chile
MHNG	Museum d'Histoire Naturelle, Geneve
MSMN	Museo Civico di Storia Naturale, Milano
MTKD	Museum für Tierkunde, Dresden
MZF	Museo Zoologico de "La Specola", Firenze
NHRM	Naturhistoriska Riksmuseet, Stockholm
NMR	Natuur-historisch Museum Rotterdam
NMBA	Naturhistorisches Museum, Basel
NMBE	Naturhistorisches Museum, Bern
NMW	Naturhistorisches Museum, Wien
MZUF	Museo Zoologico dell'Università di Firenze
QSMI	Queen Saovabha Memorial Institute, Thai Red Cross Society, Bangkok
RMNH	National Museum of Natural History, Leiden
SMF	Natur-Museum und Forschungsinstitut "Senckenberg", Frankfurt
SMNS	Staatliches Museum für Naturkunde, Stuttgart
SRSN	Società Romana di Scienze Naturali
USNM	National Museum of Natural History, Washington
UMMZ	University of Michigan, Museum of Zoology, Ann Arbor

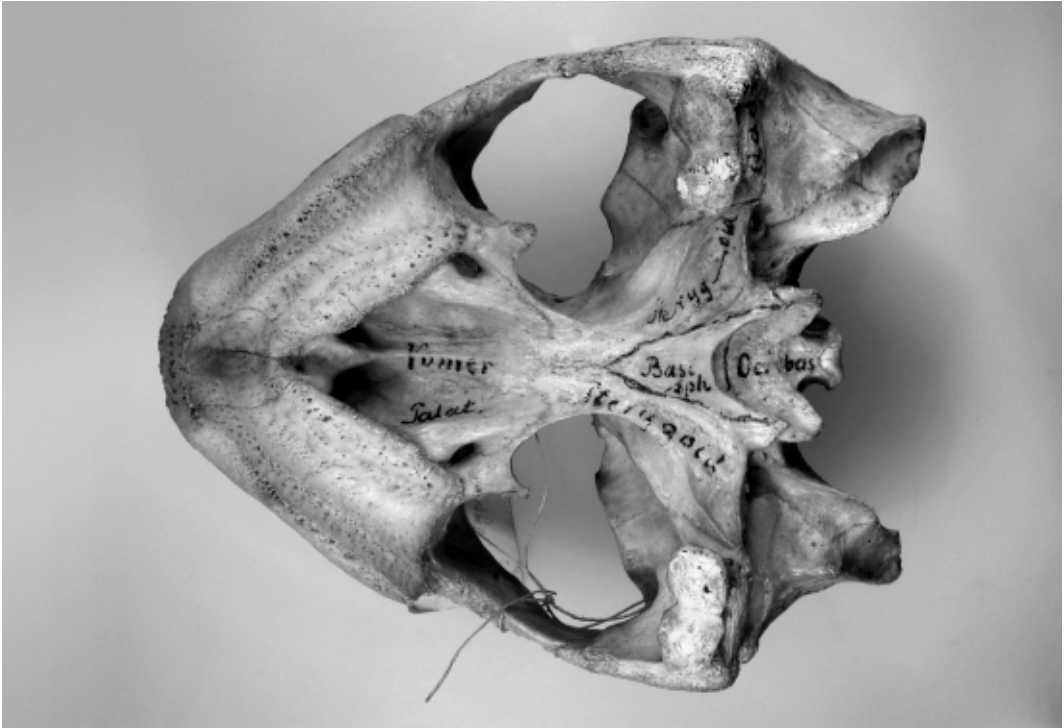


Fig. 1. Holotype of *Adelochelys crassa* Baur, 1896 (ZSM 3049/0), currently considered a synonym of *Orlitia borneensis* Gray, 1873, a large South East Asian batagurid turtle.

ZFMK	Zoologisches Forschungsmuseum Alexander Koenig, Bonn
ZMA	Zoologisch Museum, Universiteit van Amsterdam
ZMB	Zoologisches Museum an der Humboldt-Universität zu Berlin
ZMH	Zoologisches Museum, Hamburg
ZMUC	Zoological Museum, University of Copenhagen
ZDEU	Zooloji Anabilim Dalı, Ege Üniversitesi, Bornova-Izmir
ZISP	Zoological Institute, Academy of Sciences, St. Petersburg

### Order Testudines

#### Bataguridae Gray, 1869

##### *Adelochelys crassa* Baur, 1896

Anat. Anz. 12: 319

**Holotype:** ZSM 3049/0, skull (upper jaw only), no locality and collection data.

**Present name:** *Orlitia borneensis* Gray, 1873 (fide Siebenrock 1902).

##### *Mauremys caspica siebenrocki* Wischuf & Fritz (in Fritz & Wischuf), 1997

Zool. Abh. Staat. Mus. Tierkunde 49(13): 240

**Paratypes:** ZSM 37/1957/1-15, 9 subadult males, 6 subadult females, “Dez, Süd-Persien” (original description), “Dez (Süd-Persien), Chusistan – Harmalah, 120 km vor Ahwaz” (label), collected by J. Popp, 10.1957.

**Remarks:** In addition to the holotype, a total of 82 individuals is listed – but not explicitly indicated – as paratypes in the original description, including the ZSM specimens. The type status of these specimens is indicated by the remark of Fritz (2002), that paratypes are housed in several collections, including ZSM.

##### *Mauremys leprosa atlantica* Schleich, 1996

Spixiana Suppl. 22: 32

**Holotype:** ZSM 35/1996 (given as ZSM 1996/35 in the original description), subadult, “Larache” [northern Morocco], no further collection data.

**Paratypes:** ZSM 36/1996/1-3 (given as ZSM 1996/36, 1-3 in the original description), 1 subadult, 2 adults, same data as holotype.

**Present name:** *Mauremys leprosa leprosa* (Schweigger, 1812) according to Fritz et al. (2005).

***Mauremys leprosa erhardi* Schleich, 1996**

Spixiana Suppl. 22: 36

**Holotype:** ZSM 13/1996 (given as ZSM 1996/13 and 96/13 in the original description), adult, “NNE Taza, GPS Koordinaten N 35° 25' 32.8, W 02° 52' 11.8” [Morocco], no further collection data.

**Paratypes:** ZSM 14/1996/1-3 (cited as ZSM 1996/14, 1-3, 96/14-1, 96/14-2 or 96/14-3 in the original description), 3 adults, same data as holotype.

**Present name:** *Mauremys leprosa leprosa* (Schweigger, 1812) according to Fritz et al. (2005).

***Mauremys leprosa marokkensis* Schleich, 1996**

Spixiana Suppl. 22: 40

**Holotype:** ZSM 79/1994 (given as ZSM 1994/79 in the original description), subadult, “Ca. 2 km NE Tahanaoute/Kreuzung S 501, wenige km vor Aguelmouss; S-Marrakech. GPS-Koordinaten 31° 24' 54,0 W 7° 49' 44,4 [sic]” [Morocco], no further collection data.

**Paratypes:** ZSM 80/1994/1-4 (given as ZSM 1994/80, 1-4 in the original description), 1 adult, 3 juveniles, same data as holotype.

**Present name:** *Mauremys leprosa leprosa* (Schweigger, 1812) according to Fritz et al. (2005).

***Mauremys leprosa saharica* Schleich, 1996**

Spixiana Suppl. 22: 45

**Holotype:** ZSM 200/1993 (given as ZSM 1994/200 in the original description), adult, “Fort Bou Jerif, Goulmine” [Morocco], collected by H. H. Schleich, 06.1993 (jar label).

**Paratypes:** ZSM 201/1993/1-5 (given as ZSM 1994/201, 1-5 and ZSM 201/93-1, 201/93-2, 201/93-3, 201/93-4, 201/93-5 in the original description), 5 subadults and juveniles, same data as holotype.

***Mauremys leprosa wernerkaestlei* Schleich, 1996**

Spixiana Suppl. 22: 44

**Holotype:** ZSM 81/1994 (given as ZSM 1994/81 in the original description), subadult, “Wasserlauf im Schnitt von Qued Serou, Qued Oum de Oumbia. Qued Oum er Rbia, S-Khenifra. GPS Koordinaten: N 32° 44' 55,1 W 5° 41' 10,7 [sic]; ca. 90 m NN” [Morocco], no further collection data.

**Paratypes:** ZSM 82/1994/1-4 (given as ZSM 1994/82, 1-5, ZSM 94/82-1, 94/82-3 and 94/82-4 in the original description), same data as holotype.

**Remarks:** There is a lot of confusion in the original description. The paratype series consists of only four specimens, not five as mentioned on p. 44 of the original description (compare also table p. 45). In the same table two specimens are listed under “ZSM 94/82-1”. This is incorrect and the two specimens should be referred to ZSM 82/1994/1 and ZSM 82/1994/2. When we studied the material in ZSM we could not find any holotype labeling. The holotype was identified by us by comparing its carapace-length with the data given in the original description. It should be noted that Fig. 1a & 1c of the colour plate of the original description (p. 42-43) do not show the holotype as indicated, but the paratype ZSM 82/1994/3. This is the same specimen as figured in Fig. 3a, b, and c of the original description. The ventral aspect of the holotype is shown in Fig. 2b.

**Present name:** *Mauremys leprosa leprosa* (Schweigger, 1812) according to Fritz et al. (2005).

***Mauremys leprosa zizi* Schleich, 1996**

Spixiana Suppl. 22: 48

**Holotype:** ZSM 15/1996 (given as ZSM 1996/15 in the original description), subadult, “Qued Zizi” [Morocco], no further collection data.

**Paratypes:** ZSM 16/1996/1-9 (given as ZSM 1996/16, 1-10 in the original description), 1 adult, 8 subadults and juveniles, same data as holotype.

**Remarks:** According to the original description the paratype series should consist of 10 specimens. However, there are only 9 in the ZSM collection.

**Present name:** *Mauremys leprosa saharica* Schleich, 1996 according to Fritz et al. (2005).

**Chelidae Ogilby, 1905**

***Emys canaliculata* Spix, 1824**

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 10

**Lectotype:** ZSM 3007/0, subadult (skeleton), “Habitat [...] in campis paludosis juxta ripam fluminis Solimoens” [Brazil, Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Platemys platycephala* (Schneider, 1792) according to Hoogmoed & Gruber (1983).



Fig. 2. The lectotype *Emys canaliculata* Spix, 1824 (ZSM 3007/0), currently considered a synonym of *Platemys platycephala* (Schneider, 1792), a South American chelid turtle.

#### *Emys depressa* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 5

**Lectotype:** ZSM 3003/0, adult female (shell), “Habitat in aquis paludosis provinciarum Rio de Janeiro et fluminis Sti Francisci” [Brazil, state of Rio de Janeiro and Rio São Francisco, probably near Pedras de Maria da Cruz (15°37'S, 44°23'W), near Januaria (15°29'S, 44°23'W), or near Joazeiro (09°24'S, 40°30'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Acanthochelys spixii* Duméril & Bibron, 1835 (fide Iverson 1986).

#### *Emys rufipes* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 7

**Holotype:** ZSM 3006/0, adult male (skeleton), “Habitat ad ripam fluminis Solimoëns” [Brazil, Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Rhinemys rufipes* (Spix, 1824) according to Hoogmoed & Gruber (1983) and McCord et al. (2001).

#### *Emys stenops* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 12

**Holotype:** ZSM 2454/0, juvenile (in alcohol), “Habitat in locis aquis ad ripam fluminis Solimoëns” [Brazil, Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Mesoclemmys gibba* (Schweigger, 1812) according to Hoogmoed & Gruber (1983) and McCord et al. (2001).

#### *Emys viridis* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 3

**Holotype:** ZSM 3008/0, adult (shell), “Habitat in aquis lacustribus fluminis Carinhanhae, confluentis Sti Francisci” [Brazil, back-swamp lakes of Rio Carinhanha at confluent with São Francisco, probably at or near 14°18'S, 43°47'W] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Phrynops Geoffroanus Geoffroanus* (Schweigger, 1812) according to Hoogmoed & Gruber (1983).

### Emydidae Gray, 1825

#### *Emys dorsualis* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 11

**Lectotype:** ZSM 2424/0, juvenile (in alcohol), "Habitat juxta flumen Solimoens" [Brazil, Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Rhinoclemmys punctularia punctularia* (Daudin, 1801) according to Hoogmoed & Gruber (1983).

#### *Emys orbicularis (galloitalica) galloitalica* Fritz, 1995

Zool. Abh. Mus. Tierkd. Dresden 48 (13): 217

**Paratypes:** ZSM (SLM) 5031/1-3 (given as "ZSM-LM 5031:1-3" in the original description), 1 male, 2 females, "Vallon des Caimes (Forêt du Dom), Var, Frankreich" (jar label), collected by P. Knoepffler, no collection date.

**Present name:** *Emys orbicularis galloitalica* Fritz, 1995.

#### *Cistudo triunguis* Agassiz, 1857

Contr. nat. Hist. US 1: 445

**Paratype:** ZSM 18/1932 (originally MCZ) (lost), "New-Orleans, Louisiana, U.S.A." (according to the card index), collected by N. B. Benedict, no date.

**Present name:** *Terrapene carolina triunguis* (Agassiz, 1857) fide Wermuth & Mertens (1961).

### Kinosternidae Baur, 1893

#### *Kinosternon hirtipes* Wagler, 1830

Nat. Syst. Amphib.: 137

**Holotype:** ZSM 2374/0, adult, "Mexiko" (according to Wagler 1833), donated by Baron Kawinsky, no date.

**Remarks:** The type locality was restricted by Smith & Taylor (1950a) to "Mazatlán, Sinaloa", and not to "Seen bei Mexico City" as stated by Mertens & Wermuth (1961).

**Present name:** *Kinosternon hirtipes hirtipes* Wagler, 1830, see Mertens & Wermuth (1961).

#### *Kinosternon longicaudatum* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 19

**Lectotype:** ZSM 2375/0, adult male (in alcohol), "Habitat in campis aquis" [Brazil, no locality data given] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 3000/0, adult male (shell, skeleton), same data as lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Kinosternon scorpioides scorpioides* (Linnaeus, 1766) according to Hoogmoed & Gruber (1983).

#### *Kinosternon scorpioides pachyurum* Müller & Hellmich, 1936

Wiss. Ergeb. Dt. Chaco-Exp., Amph. u. Rept., I. Teil: 100

**Syntypes:** ZSM 129/1928/1-2, male, female, "Villa Montes, Bolivien", collected by Deutsche Chaco-Expedition, 1926; ZSM 128/1928a-b (lost), 1 male, 1 female, same data as ZSM 129/1928.

**Remarks:** The original description comprises no holotype designation. In a later paper, Hellmich (1958) states that the specimen ZSM 128/28a (destroyed during World War II) could be considered as "holotype". Simultaneously he discusses that the remaining male of the series (ZSM 129/1928/1, cited as ZSM 129/28a) could be considered as lectotype (using the subjunctive "... könnte als Lectotypus gelten."), but did not designate it since the diagnostic feature "tail length" is not ascertainable in that specimen.

**Present name:** Regarded as a junior synonym of *Kinosternon scorpioides seriei* Freiberg, 1936 (see Pritchard & Trebbau 1984).

### Podocnemididae Cope, 1868

#### *Emys Amazonica* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 1

**Lectotype:** ZSM 2446/0/1 (ZSMH 2446/0 A in Hoogmoed & Gruber 1983), juvenile (in alcohol), "Habitat in fluvio Solimoens et confluentibus Javary, Rio Branco" [Brazil/Peru, Rio Solimões, confluent of Rio Solimões and Rio Javari (04°21'S, 70°02'W) at Tabatinga, (lower) Rio Branco (mouth at 01°24'S, 61°51'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotypes:** ZSM 2446/0/2-7 (ZSMH 2446/0 B-G in Hoogmoed & Gruber 1983), 6 juveniles (in

alcohol); ZSM 2447/0/1-4, 4 juveniles (in alcohol); ZSM 7/0, adult (skull); ZSM 8/0, adult (skull); ZSM 9/0, adult (skull); ZSM 10/0, adult (skull); ZSM 11/0, adult (skull); ZSM 12/0, adult (skull); ZSM 13/0, adult (skull); ZSM 14/0, adult (skull); ZSM 2730/0, adult (skull); ZSM 3095/0, adult (shell); all with the same data as the lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983). Additional paralectotype: RMNH 3204.

**Present name:** *Podocnemis expansa* (Schweigger, 1812) according to Hoogmoed & Gruber (1983).

### *Emys erythrocephala* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 9

**Holotype:** ZSM 2517/0, adult (shell), “Habitat in aquis ripariis fluminis Solimoens” [Brazil, Rio Solimões (erroneous)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Podocnemis erythrocephala* (Spix, 1824) according to Hoogmoed & Gruber (1983).

### *Emys macrocephala* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 5

**Paralectotypes:** ZSM 15/0, adult (skull), “Habitat [...] prope pagum Airon ad ripam fluminis Yau, confluentis Rio Negro” [Brazil, near Airão (01°58'S, 61°19'W) at mouth of Rio Jaú (01°54'S, 61°26'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820; ZSM 17/0, adult (skull), same data as ZSM 15/0.

**Remarks:** Lectotype designation (RMNH 6164) by Hoogmoed & Gruber (1983); see Pritchard & Trebbau (1984) for further comments.

**Present name:** *Peltocephalus dumerilianus* (Schweigger, 1812) according to Hoogmoed & Gruber (1983) and Pritchard & Trebbau (1984).

### *Emys Traxaca* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 6

**Lectotype:** ZSM 16/0, adult female (skull), “Habitat solitaria et monogama ad ripam et insulas fluminis Solimoëns et confluentium” [Brazil, Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983); see Pritchard & Trebbau (1984) for further comments.

**Present name:** *Peltocephalus dumerilianus* (Schweigger, 1812) according to Hoogmoed & Gruber (1983) and Pritchard & Trebbau (1984).

### *Podocnemis vogli* Müller, 1935

Zool. Anz. 110 (5/6): 104

**Holotype:** ZSM 128/1928 (cited as Nr. 128, 1928 in the original description), juvenile, “Barinas (Staat Zamora), Venezuela”, collected by C. Vogl, 1926.

**Paratype:** ZSM 96/1928, adult (bony shell, skull, and major parts of skeleton), same data as holotype.

**Remarks:** The paratype’s catalogue number is not mentioned in the original description. The catalogue number of the holotype is identical with one of the syntypes of *Kinosternon scorpioides pachyurum* Müller & Hellmich, 1935. As the latter was destroyed during World War II (see below) we refrain from a rearrangement of the numbering.

### Platysternidae Gray, 1869

#### *Platysternon megalcephalum tristernalis* Schleich & Gruber, 1984

Spixiana 7(1): 68

**Holotype:** ZSM 317/1980 (cited as ZSM 319/1980/1 in the original description), adult, “zwischen Mung Lun und Simao, Ostufer des Mekongflusses, südliches Yünnan (VR China)”, one of the jar labels states “südlich Sozema, an der Straße nach Süden (Laos) ca. 100 km” as collection locality; collected by E. J. Fittkau, 1980 according to the jar label.

**Paratype:** ZSM 318/1980 (cited as ZSM 319/1980/2 in the original description), adult, same data as holotype.

**Remarks:** Both specimens were never catalogued in the ZSM collection. Moreover, the number cited for the types in the original description and most recently by Ernst & Laemmerzahl (2002: 24) (“ZSM 319/1980”) is occupied by an individual of *Rhynchochalamus melanocephalus* from Israel (see Franzen & Bischoff 1995). Consequently, we allotted new catalogue numbers to the two type specimens.

**Present name:** Junior synonym of *Platysternon megalcephalum megalcephalum* according to Ernst & Laemmerzahl (2002).

### Testudinidae Gray, 1825

#### *Testudo Boiei* Wagler, 1830

Descriptiones et icones amphibiorum II: pl. XIII

**Holotype or syntypes:** Untraced, uncatalogued; possibly lost during the 19th century according to Hoogmoed & Gruber (1983).

**Remarks:** Hoogmoed & Gruber (1983) designated

plate XIII of Wagler (1830b) as the lectotype of this taxon. See also remarks by Hoogmoed & Gruber (1983).

**Present name:** *Chelonoidis carbonaria* (Spix, 1824) according to Hoogmoed & Gruber (1983) and Le et al. (2006).

#### *Testudo carbonaria* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 22

**Holotype or syntypes:** Untraced, uncatalogued; possibly lost during the 19th century according to Hoogmoed & Gruber (1983).

**Remarks:** Hoogmoed & Gruber (1983) designated plate XVI of Spix (1824) as the lectotype of this taxon. See also remarks by Hoogmoed & Gruber (1983).

**Present name:** *Chelonoidis carbonaria* (Spix, 1824) according to Hoogmoed & Gruber (1983) and Le et al. (2006).

#### *Testudo graeca cyrenaica* Pieh & Perälä, 2002

Herpetozoa 15(1/2): 8

**Paratype:** ZSM 109/1983, adult male, “Kouf Nat. bei Suluntha, S. Beida” [Libya, Kouf National Park near Suluntha, south of Beida], collected by H. H. Schleich, 05.1983.

#### *Testudo sculpta* Spix, 1824

Animal. Nova Spec. Nov. Test. Ran. Brasil.: 21

**Lectotype:** ZSM 2753/0/1 (ZSMH 2753/0 A in Hoogmoed & Gruber 1983), juvenile (in alcohol), “Habitat in sylvis juxta flumen Amazonum” [Brazil, Rio Amazonas] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotypes:** ZSM 2753/0/2-3 (ZSMH 2753/0 B, C in Hoogmoed & Gruber 1983), 2 juveniles (in alcohol); ZSM 2738/0, subadult (shell); all with the same data as lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Geochelone denticulata* (Linnaeus, 1766) according to Hoogmoed & Gruber (1983).

### Order Crocodylia

#### Crocodylidae Cuvier, 1807

##### *Caiman fissipes* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 4

**Lectotype:** ZSM 2515/0/1 (ZSMH 2515/0 a in Hoogmoed & Gruber 1983), adult skull and lower

jaw, “Habitat in lacubus flumini St. Francisci proximis” [Brazil, Rio São Francisco, probably near Pedras de Maria da Cruz (15°37'S, 44°23'W), near Januaría (15°29'S, 44°23'W), or near Joazeiro (09°24'S, 40°30'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Caiman latirostris latirostris* (Daudin, 1802) according to Hoogmoed & Gruber (1983).

##### *Caiman niger* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 3

**Lectotype:** ZSM 2480/0, juvenile (in alcohol), “Habitat [...] ad littora fluminis Amazonum et Solimoëns” [Brazil, Rio Amazonas and Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotypes:** ZSM 3039/0, adult (skull and lower jaw), ZSM 3045/0 (lost), ZSM 3/0 (lost), all with the same data as the lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Melanosuchus niger* (Spix, 1825) according to Hoogmoed & Gruber (1983).

##### *Jacaretinga moschifer* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 1

**Holotype (?)**: ZSM 138/0 (lost), “Habitat in lacu urbis Bahiae” [Brazil, city of Salvador (13°00'S, 38°30'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Paleosuchus palpebrosus* (Cuvier, 1807) according to Hoogmoed & Gruber (1983).

##### *Jacaretinga punctulatus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 2

**Syntypes (?)**: ZSM 2481/0 (lost), ZSM 2482/0 (lost), “Habitat solitarius prope Ecgam” [Brazil, near Tefé (03°21'S, 64°42'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Caiman crocodilus crocodilus* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).



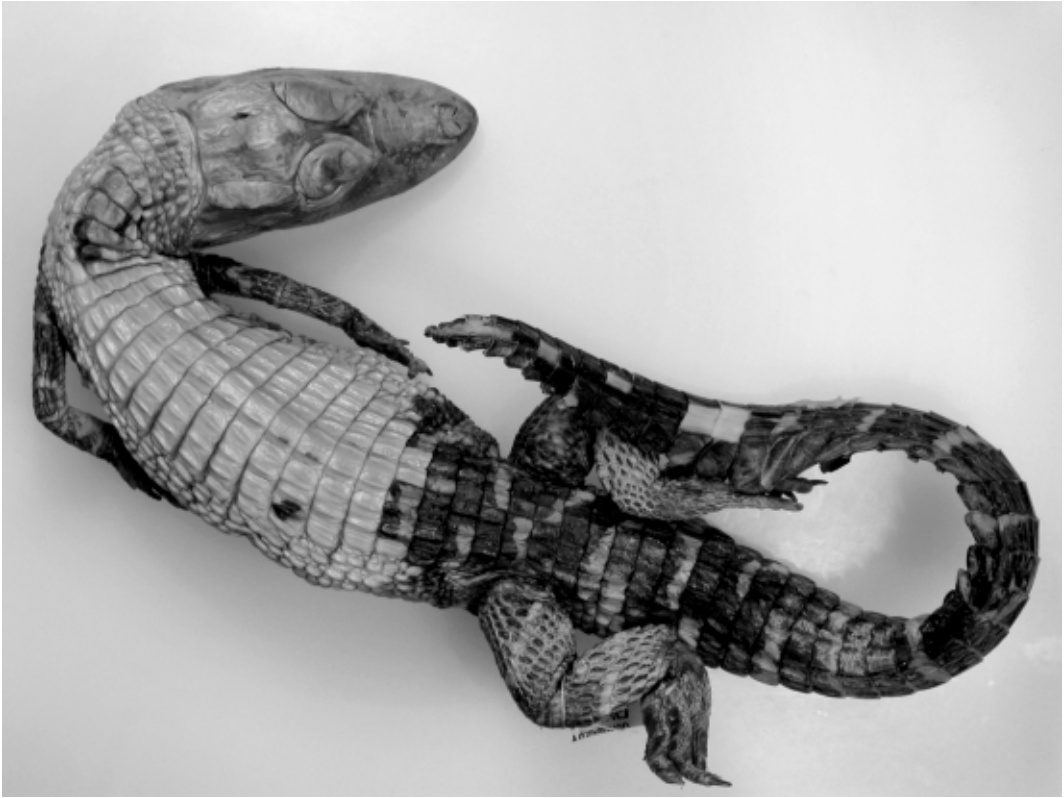


Fig. 3. Lectotype of the prominent *Caiman niger* Spix, 1825 (ZSM 2480/0), currently *Melanosuchus niger*, the largest South American crocodylian.

**Order Squamata**

**Suborder Sauria**

**Agamidae Gray, 1827**

***Agama agama mucosoënsis* Hellmich, 1957**

Veröff. Zool. Staatssamml. München 5: 44

**Holotype:** ZSM 117/1953/1 (originally ZSM 117/1953, Coll. Nr. 477), male, “Mucoso bei Dondo” [Angola], collected by W. Hellmich, 08.06.1953.

**Paratypes:** ZSM 117/1953/2 (originally ZSM 117/1953, Coll. Nr. 374), female, same data as holotype but collected 31.05.1953; ZSM 114/1953/1-12, 12 adults, same data as holotype but collected 05.-06.1953; ZSM 115/1953/1-24, 24 subadults, same data as holotype but collected 05.-06.1953; ZSM 116/1953/1-33, 33 juveniles, same data as holotype but collected 05.-06.1953.

**Remarks:** ZSM 115/1953 originally consisted of 25 specimens according to the original description and the jar label.

**Present name:** *Agama agama mucosoënsis* Hellmich, 1957.

***Agama stellio daani* Beutler & Frör, 1980**

Mitt. Zool. Ges. Braunau 3(10/12): 270

**Holotype:** ZSM 201/1978/2 (originally ZSM 201/1978-1), male, “Zw. Agh. Kirikos u. Evidilos, Ikaria, Region Samos, Griechenland” [Greece], collected by A. Beutler, 17.04.1978.

**Paratypes:** ZSM 201/1978/1 (originally ZSM 201/1978-2), 1 male, same data as holotype; ZSM 97/1980/1-8, 3 males, 3 females, 2 juveniles, “Ikaria” [Greece], collected by A. Beutler, 05.-16.06.1977; ZSM 411/1976 (missing), male, 3 females, 8 juveniles, “Ikaria”, collected by A. Beutler, 22.-26.09.1976; ZSM 200/1978 (missing), 2 juveniles, same locality and collector but collected 15.04.1978.

**Remarks:** According to the original description two additional paratypes in ZMA.

**Present name:** *Laudakia stellio daani* (Beutler & Frör, 1980), see Baig & Böhme (1997) for the generic status.

***Agama tarimensis* Zugmayer, 1909**

Zool. Jahrb. Syst. Geo. Biol. 27 (6): 493

**Syntypes:** ZSM 19/1919, male, “Khotan” [= Hotan or Chotan, China], collected by E. Zugmayer, 05.-06.1906; ZSM 314/1910/1-9, 9 specimens, same data as ZSM 19/1919.

**Remarks:** The jar label of ZSM 19/1919 indicates the specimen as “type” (handwritten label, presumably by L. Müller). The same specimen is shown by Peters (1971: fig. 5), and indicated as “Paratypoid”. However, since no holotype or lectotype was designated in the original description, we regard all specimens as syntypes. The type series originally consisted of 13 individuals according to the original description. We therefore consider three specimens as lost.

**Present name:** *Laudakia stoliczkana stoliczkana* (Blanford, 1875), see Peters (1971) and Baig & Böhme (1997).

***Calotes hayeki* Müller, 1928**

Zool. Anz. 77 (3/6): 67

**Holotype:** ZSM 3/1928 (lost), male, “Brastagi. Hochfläche von Brastagi am Sibayak, 1400 m, Nordost-Sumatra” [= Mt. Sibayak, Sumatera Utara Province, NE Sumatra], collected by H. v. Hayek, 01.04.1927.

**Remarks:** Neotype (ZMB 55931) designated by Hallermann (2005).

**Present name:** *Bronchocela hayeki* (Müller, 1928) according to Hallermann (2005).

***Gonocephalus schultzei* Urban, 1999**

Herpetozoa 11 (3/4): 185

**Holotype:** ZSM 132/1979/1 (given as ZSM 1956/82 in the original description), male, “in der Nähe von Nondugl, Papua-Neu Guinea”, collected by T. Schultze-Westrum, 07.1956.

**Paratype:** ZSM 132/1979/2 (given as ZSM 1956/89 in the original description), female, same data as holotype.

**Present name:** *Hypsilurus schultzei* (Urban, 1999) according to Manthey & Denzer (2006).

***Gonycephalus (Hypsilurus) auritus* Meyer, 1874**

Mitt. Ber. Königl. Preuß. Acad. Wiss. Berlin, 1874: 130

**Syntype:** ZSM 187/1913, adult, “Doré, westl. Neu-Guinea” (jar label), collected by A. B. Meyer, 1873.

**Remarks:** ZSM 187/1913 is obviously the missing specimen of the type series (original number (“400”) mentioned by Manthey & Denzer (2006: 8). Denzer et al. (1997) and Manthey & Denzer (2006) considered ZMB 8782 as holotype. However, since the original

description was based on a series of four specimens (Manthey & Denzer 2006) and since the unpublished lectotype designation by Müller (cited by Manthey & Denzer 2006) is invalid we consider this specimen as a syntype rather than a paratype or paralectotype.

**Present name:** *Hypsilurus auritus* (Meyer, 1874) according to Manthey & Denzer (2006).

***Hypsilurus hikidanus* Manthey & Denzer, 2006**

Hamadryad 30 (1 & 2): 28

**Paratype:** ZSM 39/1990/2, adult female from the pet trade, originally presumably from New Guinea, no date.

***Hypsilurus ornatus* Manthey & Denzer, 2006**

Hamadryad 30 (1 & 2): 30

**Holotype:** ZSM 122/1979, adult female, “Village Didessa, Mt. Bosavi (6°35'S 142°50'E), Southern Highlands Province; Papua New Guinea” (original description), collected by T. Schultze-Westrum, 09.09.1966.

***Phrynocephalus erythrurus* Zugmayer, 1909**

Zool. Jahrb. Syst. Geo. Biol. 27 (6): 504

**Lectotype:** ZSM 317/1910, female, “Sagüs Kul, Nordwest-Tibet” [Xizang autonomous region, China] (original description), “W.-Tibet” (label), collected by E. Zugmayer, 06.1906.

**Remarks:** The jar label identifies the specimen as “type”. Cochran (1961) listed two “paratypes” of *P. erythrurus* in USNM. However, no “type” or holotype was designated in the original description. Subsequently ZSM 317/1910 was designated as lectotype by Peters (1984: 47). Zugmayer’s description is based on 7 specimens. Two of them are now apparently housed in USNM (Cochran 1961). Additionally, Peters (1984: 47) mentioned at least two females under the catalogue number ZSM 317/1910. The whereabouts of the remaining individuals is not clear.

**Present name:** *Phrynocephalus lidskii* Bedriaga, 1909 (fide Peters 1984: 47-49).

***Uromastix acanthinurus werneri* Müller, 1922**

Naturwissenschaftlicher Beobachter 15/16: 8

**Holotype:** ZSM 436/0 (given as ZSM 436/40 in the original description) (lost), male, “Provinz Oran (Ain Sefra?)” [Algeria], collected by Milecik, 1897.

**Paratypes:** ZSM 305/1909, female, “Tiut, Algerien”, collected by Scherer, 1908; ZSM 336/1909, juvenile, “Tiut, Algerien”, collected by Scherer, 1908; ZSM



Fig. 4. Holotype of *Leposternon microcephalum* Wagler, 1824 (ZSM 3150/0), a South American amphisbaenid obtained during Spix and Martius expedition to Brazil.

10/1908 (lost), 2 juveniles, “Figig, Marokko”, collected by Scherer, 1907.

**Present name:** Junior synonym of *Uromastix acanthinura nigriventris* Rothschild & Hartert, 1912 (according to Wilms & Böhme 2000).

#### ***Uromastix geyri* Müller, 1922**

Naturwissenschaftlicher Beobachter 15/16: 1

**Paratypes:** ZSM (SLM) 1699 (lost), 1 specimen, “Oued Amra, Central Sahara” [Algeria], collected by Geyer v. Schweppenburg, 05.04.1914; ZSM (SLM) 1700 (lost), 1 specimen, “Gara Djenoum (Kiesebene), Central Sahara” [Algeria], collected by Geyer v. Schweppenburg, 10.03.1914 (all data according to the card index); ZSM (SLM) 4451, 1 female, “Thar-emert-n-Akh” [Algeria], collected by Geyer v. Schweppenburg, 10.04.1914.

**Remarks:** Neotype (ZFMK 9230), designated by Müller (1951); see also Böhme (1974) and Wilms & Böhme (2000) for comments. In contrast to the statement of Böhme (1974: 173) that the Munich series originally consisted of two paratypes, the card index lists the above mentioned 3 specimens, one (“Nr.

1700”) with the same collection data as the neotype (see Böhme 1974).

**Present name:** *Uromastix geyri* Müller, 1922 (see Wilms & Böhme 2000).

#### **Amphisbaenidae Gray, 1825**

##### ***Amphisbaena oxyura* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 72

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), “Habitat rarus prope urbem principem Rio de Janeiro” [in error: specimens originated from the Iberian Peninsula] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion.

**Present name:** *Blanus cinereus* (Vandelli, 1797) according to Hoogmoed & Gruber (1983).

### *Amphisbaena vermicularis* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 73

**Lectotype:** ZSM 660/0, “Habitat in provincia Bahiae” [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

### *Leposternon Microcephalus* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 70

**Holotype:** ZSM 3150/0, female, “Habitat prope urbem Rio de Janeiro, in viis apertis, prope celeb. Langsdorffii Mandioccam” [Brazil, Rio de Janeiro, Langsdorff’s farm “Mandioca” at the slopes of the Sierra dos Orgaos, ca. 22°35’S, 43°11’W] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Leposternon microcephalum* Wagler, 1824 according to Hoogmoed & Gruber (1983).

## Anguidae Gray, 1825

### *Gerrhonotus lichenigerus* Wagler, 1833

Descriptiones et icones amphibiorum III: 11

**Holotype:** ZSM 582/0, adult, “Habitat in Mexico, in quercetis inter saxa”, donated by Baron Kawinsky, no date.

**Remarks:** The holotype perfectly agrees with Wagler’s plates, especially the arrangement of the dorsal head scales (pl. 34, fig. 3 of the original description). However, according to the jar label, the specimen has been collected by Dr. Ross in 1906. This appears to be erroneous since the catalogue mentions no collector and date for the specimen, but the lines above the 582/0 entry (580/0, 581/0) indicate several specimens of “*Gerrhonotus imbricatus* Wgm.” collected by Dr. Ross in 1906. Accordingly, the attached collecting data of ZSM 582/0 are most probably based on an erroneous transcription from the catalogue to the jar label. Good (1988: 79) erroneously cited Wagler (1830, part II, pl. 24) as the original description.

**Present name:** *Barisia imbricata* (Wiegmann, 1828) according to Good (1988: 79).

### *Pygopus caryococca* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 26

### *Pygopus Caryococca* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: pl. 28, fig. 2

**Holotype:** ZSM 590/0, juvenile, “Habitat, prope urbem Rio de Janeiro in monte Corcovado ad fontem Cariococca ab incolis dictum” [Brazil, Rio de Janeiro, Corcovado Mountain, “da Carioca” spring] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Ophiodes striatus* (Spix, 1825) according to Hoogmoed & Gruber (1983).

### *Pygopus striatus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 25

**Lectotype:** ZSM 593/0, adult, “Habitat agilis in locis arenosis ad ripam maris, nec non fluminum Rio de Janeiro” [Brazil, Rio de Janeiro] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 166/47, adult; ZSM 594/0 (lost), 1 specimen; both with the same data as the lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Ophiodes striatus* (Spix, 1825) according to Hoogmoed & Gruber (1983).

## Chamaeleonidae Gray, 1825

### *Brookesia minima* Boettger, 1893

Kat. Rept.-Sammlung Mus. Senckenb. Naturforsch. Ges., Frankfurt a. M., Teil I: 123

**Paralectotype:** ZSM 17/1921, adult, “Insel Nossibé bei Madagascar”, collected by C. Ebenau, 1880.

**Remarks:** Specimen received from SMF in exchange. Lectotype and one additional paralectotype in SMF (see Glaw et al. 1999 for further comments on the species’ type status).

### *Chamaeleo uthmölleri* Müller, 1938

Zool. Anz. 122(1/2): 20

**Holotype:** ZSM 1/1948, male, “Hanang (Gurui), Tanganyika Territory, ‘Im Urwald’, 2300 m” [Tanzania], collected by W. Uthmöller, 18.08.1937.

**Present name:** *Kinyongia uthmoelleri* (Müller, 1938) according to Tilbury et al. (2006).

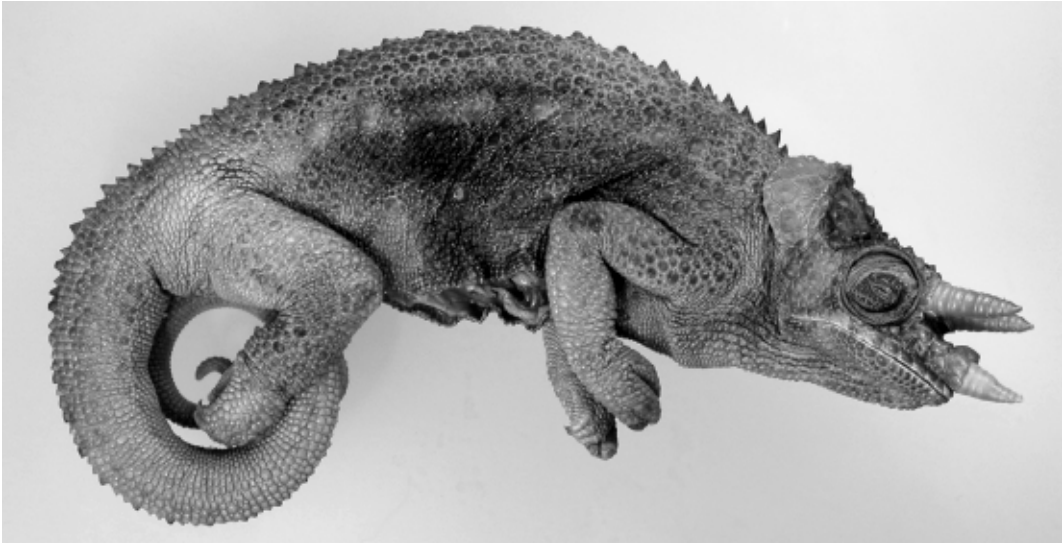


Fig. 5. Syntype of *Chamaeleo fülleborni* Tornier, 1900 (ZSM 25/1925), an endemic species of the Potoro mountains, southern Tanzania.

#### *Chamaeleon camerunensis* Müller, 1909

Jb. des Nassauischen Ver. f. Naturkde. Wiesbaden 62: 111

**Lectotype:** ZSM 425/1909, female, “Dibongo bei Idea, Kamerun”, collected by R. Rhode, 1908.

**Remarks:** Lectotype designation by Klaver & Böhme (1992). The original syntype series consisted of two individuals, one male and one female (according to the card index and Müller 1910). The second specimen is now housed in ZFMK (ZFMK 19449, paralectotype). See also Klaver & Böhme (1992) for comments on the confusing literature statements on the number of type specimens.

**Present name:** *Chamaeleo (Trioceros) camerunensis* Müller, 1909 (fide Klaver & Böhme 1992).

#### *Chamaeleon fülleborni* Tornier, 1900

Zool. Jb. Syst. 13: 614

**Syntype:** ZSM 25/1925 (originally ZMB 15707), male, “Südliches D.O. Afrika” [Tanzania], collected by Fülleborn, no date.

**Remarks:** The Munich syntype has no precise collection data. However, Tornier (1900) mentioned the three male syntypes (of which one specimen most probably was given to Munich) as coming from “Nonde-Nike” at “Kungura-Berg, gegen 2500 m Höhe” (collected by January 1900 and 5 October 1899). In contrast, the two remaining male syntypes in ZMB bear the collection data “Konde Njika”, collected by Fülleborn, no date (ZMB 15708) and

“Kungura-Berg um 2500 m, an einem Bäumchen”, collected by W. Goetze, 19.09.1899 (ZMB 15710). See also Bauer et al. (2006) for further comments.

**Present name:** *Chamaeleo (Trioceros) fülleborni* (see Klaver & Böhme 1986, 1997).

#### *Chamaeleon laevigularis* Müller, 1926

Zool. Anz. 65(7/8): 197

**Holotype:** ZSM 139/1925, subadult male, “? East London, Kapland” [most probably erroneous], no further collection data.

**Present name:** The taxon is commonly regarded as a junior synonym of *Chamaeleo (Trioceros) johnstoni* (e.g. Klaver & Böhme 1997).

#### *Chamaeleon linotus* Müller, 1923

Mitt. Zool. Mus. Berlin 11: 95

**Holotype:** ZSM 21/1923, male, “Madagascar”, without further collection data.

**Present name:** *Calumma linotum* (Müller, 1923) according to Lutzmann & Lutzmann (2004).

#### *Chamaeleon michelli* Müller, 1913

Zool. Anz. XLI(5): 230

**Holotype:** ZSM 286/1912, female, “Station Gô am Rulei, unterer Uelledistrikt, Kongostaat” [Democratic Republic of Congo], collected by Michell, 07.1912.

**Present name:** *Chamaeleo (Trioceros) oweni* (Gray,

1831) according to Schmidt (1919), see also Klaver & Böhme (1997).

### *Chamaeleon tenuis* Matschie, 1892

Sber. Ges. naturf. Fr. Berlin 1892: 106

**Paralectotype?:** ZSM 693/1920, male, “Ruwenzori”, collected by Schubotz, no date [data probably in error, see below].

**Remarks:** Lectotype designation (ZMB 11384) by Klaver & Böhme (1988). See also Bauer et al. (2006). These authors also discuss the possibility that the Munich specimen is the missing fourth ZMB syntype since it has been received from the Berlin museum and appears virtually identical with the dimensions of this individual given in the original description. However, the associated locality “Ruwenzori Mts.” seems to be unlikely for the species. Klaver & Böhme (1988) discussed the possibility of an exchange of locality data. The ZMB type series is originated from “Derema, Usambara” [Tanzania], collected by L. Conradt.

**Present name:** *Kinyongia tenue* (Matschie, 1892) according to Tilbury et al. (2006).

### *Chamaeleon wiedersheimi* Nieden, 1910

Arch. Naturgesch. 1: 239

**Paralectotype:** ZSM 23/1925, male, “Dorf Tschá (Bekom), Bez. Bamenda, Kamerun”, collected by Glauning, 20.09.1907.

**Remarks:** Lectotype designation (ZMB 21873) by Klaver & Böhme (1992).

**Present name:** *Chamaeleo (Trioceros) wiedersheimi wiedersheimi* Nieden, 1910 according to Klaver & Böhme (1992).

### *Chamaeleon incornutus* Loveridge, 1932

Bull. Mus. Comp. Zool. 72 (10): 380

**Paratypes:** ZSM 29/1930/1-2 (originally MCZ specimens, catalogue numbers unknown), 2 adults, “Madehani, Ukinga Mountains, southwestern Tanganyika Territory” [Tanzania], collected by A. Loveridge, 14.02.1930.

**Remarks:** Specimens received in exchange from MCZ. Holotype and remaining paratypes in MCZ.

**Present name:** *Chamaeleo (Trioceros) incornutus* Loveridge, 1932.

## Gekkonidae Gray, 1825

### *Ancylodactylus spinicollis* Müller, 1907

Zool. Anz. 31: 825

**Holotype:** ZSM 603/1911 (lost), adult, “Umgebung von Mundame (Kamerun)” (original description), “Mukonje-Farm, Mundame, Kamerun” (card index, see also Wermuth 1965), collected by R. Rhode, no collection date.

**Remarks:** Type species of *Ancylodactylus* Müller, 1907.

**Present name:** *Cnemaspis (Ancylodactylus) spinicollis* (Müller, 1907).

### *Cnemaspis bohmanni* Müller & Uthmüller, 1950

Zool. Anz. 145(5/6): 118

**Holotype:** ZSM 52/1938/1, male, “Mto-Wa-mbu, am Fuße der Großen Afrikanischen Bruchstufe, ca. 2 km nördl. des Manyara-Sees, 990 m, Tanganyika-Territory” [Tanzania], collected by W. Uthmüller, 03.07.1937.

**Paratype:** ZSM 52/1938/2, female, same data as holotype.

**Remarks:** In the original description several paratypes were mentioned (“Die Paratypen unterscheiden sich kaum vom Typus”). The whereabouts of these individuals is unknown.

**Present name:** *Cnemaspis quattuorseriata quattuorseriata* (Sternfeld, 1912) fide Wermuth (1965).

### *Cyrtodactylus basoglui* Baran & Gruber, 1982

Spixiana 5(2): 121

**Paratypes:** ZSM 23/1981 (originally ZDEU [= SZE] 319/1977-4), female, “Suruç (Urfa)” [Turkey], collected by A. Kiliç, 15.08.1977; ZSM 22/1981 (originally ZDEU 126/1976-2), male, “Mardin”, collected by I. Baran, 17.05.1976.

**Present name:** *Cyrtopodion scaber* Heyden, 1827 (see Böhme 1985 for generic status and Szczerbak & Golubev 1986 for species status).

### *Cyrtodactylus kotschyi bibroni* Beutler & Gruber, 1977

Spixiana 1(2): 184

**Holotype:** ZSM 12/1972/1, male, “Monemvassia, SO-Peloponnes” [Greece], collected by U. Gruber & D. Fuchs, 01.04.1972.

**Paratypes:** ZSM 12/1972/2-6, 3 males, 1 female, 1 juvenile, same data as holotype.

**Present name:** *Cyrtopodion kotschyi bibroni* (see Böhme 1985 for generic status).



Fig. 6. Holotype of *Cyrtodactylus kotschy tinensis* Beutler & Frör, 1980 (ZSM 27/1975), currently *Cyrtopodion kotschy tinensis*.

***Cyrtodactylus kotschy ciliciensis*  
Baran & Gruber, 1982**

Spixiana 5 (2): 127

**Paratypes:** ZSM 220/1975, juvenile male, “S. Türkei, Side”, collected by K. Warnke, 04.1972 (jar label); ZSM 6/1981/1-2, 2 juveniles, “südl. Uzuncaburç bei Silifke”, 800 m, collected by J. J. & J. F. Schmidtler, 03.04.1974 (jar label); ZSM 7/1981, juvenile “Gazi-paşa”, collected by Schmidtler & Schmidtler, 05.04.1976 (jar label); ZSM 8/1981, female, “Abzweigung Kirobası-Uzuncaburç bei Silifke”, 900 m a.s.l., collected by Schmidtler & Schmidtler, 18.04.1975 (jar label).

**Remarks:** According to the original description holotype (ZDEU 166/1977) and six additional paratypes in ZDEU.

**Present name:** *Cyrtopodion kotschy ciliciensis* (see Böhme 1985 for generic status).

***Cyrtodactylus kotschy fuchsi*  
Beutler & Gruber, 1977**

Spixiana 1 (2): 190

**Holotype:** ZSM 153/1972/1, male, “Inselchen Strongylo zwischen Gioura und Pelagonisi (= Kyra Panagia, Nördliche Sporaden, Griechenland)”, collected by U. Gruber & D. Fuchs, 11.05.1972.

**Paratypes:** ZSM 153/1972/2-3, 2 females, same data as holotype.

**Present name:** *Cyrtopodion kotschy fuchsi* (see Böhme 1985 for generic status).

***Cyrtodactylus kotschy schultzevstrumi*  
Beutler & Gruber, 1977**

Spixiana 1 (2): 189

**Holotype:** ZSM 139/1972/1 (erroneously given as ZSM 139/1972/2 in the original description), male, “Insel Valaxa, westlich Skyros (Nördliche Sporaden, Griechenland)” [Greece], collected by U. Gruber & D. Fuchs, 08.05.1972.

**Paratypes:** ZSM 139/1972/2-3, 1 male, 1 subadult female, same data as holotype.

**Remarks:** According to Beutler & Frör (1980) seven additional paratypes in ZFMK, but Böhme & Bischoff (1984) list only six individuals.

**Present name:** *Cyrtopodion kotschy schultzevstrumi* (see Böhme 1985 for generic status).

***Cyrtodactylus kotschy tinensis*  
Beutler & Frör, 1980**

Mitt. Zool. Ges. Braunau 3(10/12): 265

**Holotype:** ZSM 27/1975, male, “Tinos (Nordkykladen)” [Greece], collected by A. Beutler & E. Frör, 08.-11.10.1974.

**Paratypes:** All from “Tinos” [Greece]: ZSM 58/1975/1-7, 3 females, 4 juveniles, collected by Beutler & Frör, 29.09. and 08.-11.10.1974; ZSM 398/1976/1-54, 28 adults, 26 juveniles, collected by Beutler, 03.-09.03. and 13.-14.03.1976; ZSM 412/1976/1-13, 11 adults, 2 juveniles, collected by Beutler, 27.-29.09. and 11.-13.10.1976; ZSM 98/1980/1-26, 16 adults, 10 juveniles, collected by Beutler & Frör, 21.-27.05.1977; ZSM 52/1975/1-23, 6 males, 14 females, 3 juveniles, collected by Beutler, 29.05.-05.06.1975.

**Remarks:** Three of the above mentioned paratype series contain less specimens than indicated in the original description. ZSM 398/1976: originally 67 individuals (11 males, 30 females, 26 juveniles), actually only 54 specimens; ZSM 412/1976: originally 31 individuals (20 males, 9 females, 2 juveniles), actually only 13; ZSM 98/1980: originally 27 specimens (8 males, 9 females, 10 juveniles), actually only 26. We do not know on the whereabouts of the lacking specimens and presume that they had been given to other collections in exchange. Four additional paratypes in ZFMK and ZMB according to the original description.

**Present name:** *Cyrtopodion kotschyi tinensis* (see Böhme 1985 for generic status).

*Cyrtodactylus Spixii* Gray, 1831  
see *Gymnodactylus geckoides* Spix, 1825

*Gecko aculeatus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 16

**Lectotype:** ZSM 166/0/1 (ZSMH 166/0 A in Hoogmoed & Gruber 1983), male, "Habitat in domiciliis prope urbem Rio de Janeiro" [Brazil, near Rio de Janeiro] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 166/0/2 (ZSMH 166/0 b in Hoogmoed & Gruber 1983), male, same data as lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Hemidactylus mabouia* (Moreau de Jonnés, 1818) according to Hoogmoed & Gruber (1983).

*Geckolepis polylepis* Boettger, 1893

Kat. Rept.-Sammlung Mus. Senckenb. Naturforsch. Ges., Frankfurt a. M., Teil I: 35

**Paratype:** ZSM 24/1921 (originally SMF) (lost), "Mojanga, W-Madagascar" (card index), collected by Voeltzkow, 1893.

*Gekko ernstkelleri*

Rösler, Siler, Brown, Demegillo & Gaulke, 2006

Salamandra 42 (4): 198

**Paratype:** ZSM 52/2005, adult male, "Philippines, Panay, Antique Province, Municipality of Pandan, Barangay Santo Rosario, entrance of a limestone cave, 80 m a.s.l. ", collected by A. Demegillo, 02.10.2005.

*Goniurosaurus araneus*

Grismer, Viets & Boyle, 1999

J. Herpetol. 33: 386

**Paratype:** ZSM 180/2006 (originally HLMD-RA-2577), adult female, "40 km SE of Cao Bang, Cao Bang Province, Vietnam", collected by Wai Lui, 11.05.1996.

**Remarks:** Holotype and further paratypes in HLMD.

*Gonyodactylus spinulosus* Fitzinger, 1843  
see *Gymnodactylus geckoides* Spix, 1825.

*Gymnodactylus geckoides* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 17

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), "Habitat in confinibus Bahiae" [Brazil, probably outskirts of Salvador (13°00'S, 38°30'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Also type(s) of the replacement names *Cyrtodactylus Spixii* Gray, 1831 and *Gonyodactylus spinulosus* Fitzinger, 1843. See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Gymnodactylus geckoides geckoides* Spix, 1825 according to Hoogmoed & Gruber (1983).

*Gymnodactylus kotschyi rumelicus* Müller, 1940

Mitt. Königl. Naturwiss. Inst. Sofia 8: 5

**Holotype:** ZSM (SLM) 2430 (lost), male, "Plovdiv, Süd-Bulgarien", collected by F. Fuß, 05.1932.

**Paratypes** (according to the card index): ZSM (SLM) 2489 (lost), 9 specimens, same data as holotype; ZSM (SLM) 2435 (lost), 17 specimens (only 15 mentioned in the original description), "Plovdiv (Burnardschik Tepe)", collected by L. Müller, 06.1933.

**Remarks:** Neotype (ZFMK 24327, with the same data as holotype) designated by Beutler & Gruber (1977), see also Böhme & Bischoff (1984). One additional paratype in ZFMK.

**Present name:** *Cyrtopodion kotschyi rumelicus* (see Böhme 1985 for generic status).

*Hemidactylus bouvieri razoensis*  
Gruber & Schleich, 1982

Spixiana, 5(3): 303

**Holotype:** ZSM 129/1981, subadult female, "Ilheo Razo (Islas Desertas), Kapverden" [Razo island, Cape Verde], collected by H. H. Schleich & H.-J. Gruber, 02.1981.

**Paratypes:** ZSM 130/1981/1-4, 3 males and 1 female, same data as holotype; ZSM 22/1982, female, "Razo",



collected by Schleich & Wuttke, 09.1981.

**Remarks:** When preparing the type catalogue, the holotype seemingly was missing. However, ZSM 130/1981 contained seven specimens (instead of four, as cited in the original description), one of them dried and obviously prepared for scanning electron microscopy. By comparing pholidosis and measurements of these seven individuals with the data given by Gruber & Schleich (1982, tab. page 306) we were able to identify one specimen as the missing holotype (identification based on snout-vent length, tail length, number of sub- and supralabials) and to exclude two other specimens from the type series, among them the dried specimen. Gruber & Schleich (1982) state that they had four additional specimens for comparison at hand (p. 304, Tab. p. 306). We believe that the two additional individuals were originally part of this series and were later added to the paratype series erroneously.

***Paroedura bastardi ibityensis*  
Rösler & Krüger, 1998**

Sauria 20(2): 38

**Paratype:** ZSM 944/2000 (originally CPHR 1102), adult male, "Mt. Petit Ibity, Zentrales Hochland von Madagaskar", collected by J. Krüger & H. Rösler, 24.09.1994.

**Remarks:** Holotype MTKD D 39058. Additional paratypes in MTKD, MNHN, and ZFMK according to the original description.

***Paroedura lohatsara* Glaw, Vences & Schmidt, 2001**

Spixiana 24(3): 250

**Holotype:** ZSM 985/2002, adult male, "Montagne des Français (between 12°19'17"S, 49°20'13"E, 174 m altitude and 12°19'34"S, 49°20'09"E, 334 m altitude), northern Madagascar", collected by F. Glaw, K. Schmidt & M. Vences, 14.-21.03.2000.

**Paratypes:** ZSM 529/2000, male, same data as holotype but collected on 14.03.2000; ZSM 530/2000, juvenile, same data as holotype but collected on 21.03.2000; ZSM 986/2001, juvenile, captive born, offspring from male holotype and one female paratype; three additional paratypes were mentioned as uncatalogued in the original description. They now bear the following catalogue numbers (all with the same collection data as the holotype): ZSM 291/2002, male; ZSM 292/2002, female; ZSM 293/2002, female.

**Remarks:** Two former ZSM paratypes (ZSM 807/2001, female; 987/2001, juvenile) were exchanged (now ZFMK 74645 and 74646).

***Phelsuma berghofi* Krüger, 1996**

Herpetofauna 18(105): 15

**Paratypes:** ZSM 337/2003, ZSM 200/2006, two adult males, "Somisiky, Süd-Ost-Madagaskar (23°23'S, 47°32'E), 56 ü NN", collector and collection date not given in the original description, but H.-P. Berghof, 03.1996 (H.-P. Berghof pers. comm.).

**Remarks:** Five living paratypes were designated in the original description (three males and two females., H.-P. Berghof, pers. comm.), two of them were traced and catalogued, the other specimens should be considered lost.

***Phelsuma borbonica (agalegae) mater* Meier, 1995**

Salamandra 31: 35

**Paratype:** ZSM 181/2006 (originally ZFMK 57903), adult, "Réunion: Basse Vallée", collected by H. Riviere, 04.1992

**Remarks:** Holotype and additional paratypes in ZFMK.

**Present name:** *Phelsuma borbonica mater* Meier, 1995.

***Phelsuma kely* Schönecker, Bach & Glaw 2004**

Salamandra 40(2): 106

**Holotype:** ZSM 607/2003, subadult male, "Lac Ampitabe (18°36'S, 49°15'O, 10 m ü. NN) bei Andranokoditra, etwa 65 km südlich von Toamasina (= Tamatave), Ost-Madagaskar", native collector, 2000.

**Paratypes:** ZSM 1009/2003 (four weeks old juvenile), ZSM 1010/2003 (five weeks old juvenile), both captive bred specimens.

***Phelsuma leiogaster isakae* Meier, 1993**

Salamandra 29: 127

**Paratype:** ZSM 182/2006 (originally ZFMK 55120), adult, "Isaka" [Madagascar], collected by G. Trautmann, 04.1992.

**Remarks:** Holotype and additional paratypes in ZFMK.

**Present name:** *Phelsuma modesta isakae* Meier, 1993 according to Krüger (1996c).

***Phelsuma leiogaster trautmanni* Meier, 1993**

Salamandra 29: 129

**Paratype:** ZSM 183/2006 (originally ZFMK 50875), adult, "südlich Ambovombé" [Madagascar], collected by O. Pronk, 02.1989.

**Remarks:** Holotype and additional paratypes in ZFMK.

**Present name:** *Phelsuma modesta* Mertens, 1970 according to Krüger (1996c).

***Phelsuma lineata elanthana* Krüger, 1996**

Sauria 18: 39

**Paratype:** ZSM 184/2006 (originally ZFMK 61522), adult, Antananarivo, Zentral-Madagaskar, collected by J. Krüger, 09.1994.

**Remarks:** Holotype and additional paratypes in ZFMK.

***Phelsuma madagascariensis (madagascariensis) boehmei* Meier, 1984**

Salamandra 18: 183

**Paratype:** ZSM 185/2006 (originally ZFMK 21782), adult, "Perinet" [Madagascar], collected by H. Meier, 1978.

**Remarks:** Holotype in ZFMK, additional paratypes in ZFMK and SMF.

**Present name:** *Phelsuma madagascariensis boehmei* Meier, 1984.

***Phelsuma madagascariensis (sundbergi) ladiguensis* Böhme & Meier, 1981**

Salamandra 17: 13

**Paratype:** ZSM 186/2006 (originally ZFMK 33419), adult, "Seychellen: La Digue", collected by H. Meier, 1.-20.03.1981.

**Remarks:** Holotype and additional paratypes in ZFMK.

**Present name:** *Phelsuma sundbergi ladiguensis* Böhme & Meier, 1981.

***Phelsuma nigristriata* Meier, 1984**

Salamandra 20: 32

**Paratype:** ZSM 187/2006 (originally ZFMK 40318), adult "Komoren", collected by H. Meier, 1983.

**Remarks:** Meier (1984) published only imprecise locality data for the type specimens, but stated that exact locality data is available in the ZFMK. The exact locality is Ivambeni, Mayotte island (ZFMK catalogue). Holotype and further paratypes in ZFMK.

***Phelsuma pusilla hallmanni* Meier, 1989**

Salamandra 25: 231

**Paratype:** ZSM 188/2006 (originally ZFMK 50807), adult, locality not explicitly stated in the original description, but apparently identical with that of the holotype "Perinet (Andasibe)" [Madagascar], collected by H. Meier, 03.1989.

**Remarks:** Holotype in ZFMK, additional paratypes in ZFMK and SMF.

***Phelsuma quadriocellata lepida* Krüger, 1993**

Salamandra 29: 134

**Paratype:** ZSM 189/2006 (originally ZFMK 61518), adult, "Andapa", Nord-Ost Madagaskar, collector and collection date not given in the original description.

**Remarks:** According to the original description, beside the ZFMK holotype, apparently 11 paratypes were designated (SMF 22674-676, ZFMK 54501-503 and five living specimens from Andapa that were still uncatalogued when the description was published) although the statement "Material: 10 Exemplare" suggests that only 9 paratypes were available. ZSM 189/2006 is one of the paratypes that were still alive at the time of description and was subsequently catalogued in the ZFMK.

***Phelsuma quadriocellata parva* Meier, 1983**

Salamandra 19: 117

**Paratype:** ZSM 190/2006 (originally ZFMK 34481), adult, "Tamatave" [Madagascar], collected by H. Meier, 01.1977.

**Remarks:** Holotype and additional paratypes in ZFMK.

***Phelsuma robertmertensi* Meier, 1980**

Bonn. zool. Beitr. 31: 327

**Paratype:** ZSM 191/2006 (originally ZFMK 40067), adult, "Komoren" collected by H. Meier, 01.1980.

**Remarks:** ZSM 191/2006 is one of the paratypes that were still alive at the time of description and which subsequently was catalogued in the ZFMK. Meier (1980) published only imprecise locality data for the type specimens, but stated that exact locality data are available in the ZFMK. The more exact locality is Ivambeni, Mayotte, according to the ZFMK catalogue.

***Phelsuma v-nigra anjouanensis* Meier, 1986**

Salamandra 22: 15

**Paratype:** ZSM 192/2006 (originally ZFMK 42078), adult, "Pomoni, Anjouan" [Comoros], collected by H. Meier, 1984.

***Phelsuma v-nigra comoraegrandensis* Meier, 1986**

Salamandra 22: 17

**Paratype:** ZSM 193/2006 (originally ZFMK 42074), adult, "Nioumadzaha, Grande Comore", collected by H. Meier, 1984.

***Phelsuma v-nigra pasteuri* Meier, 1984**

Salamandra 20: 35

**Paratype:** ZSM 194/2006 (originally ZFMK 40068), adult, “Komoren”, collected by H. Meier, 1983.

**Remarks:** Meier (1984) published only imprecise locality data for the type specimens, but stated that exact locality data is available in the ZFMK. The exact locality is Ivambeni, Mayotte island, according to the ZFMK catalogue. Holotype and further paratypes in ZFMK.

***Tarentola borneensis protogigas* Joger, 1984**

Cour. Forsch.-Inst. Senckenberg 71: 100

**Holotype:** ZSM 145/1981/1 (given as ZSM 01/145/81 in the original description), “Insel Fogo” [Cape Verde], according to the jar label collected near S. Felipe, by H. H. Schleich & H.-J. Gruber, 01.1981.

**Paratype:** ZSM 145/1981/2 (given as ZSM 02/145/1981 in the original description), (missing) same data as holotype.

**Remarks:** The jar of ZSM 145/1981 contains 10 specimens; the same number is also mentioned in the card index. However, Schleich (1987) gives measurements for 11 specimens of ZSM 145/1981. Apparently only two specimens (holotype and one paratype) were chosen as types from this series. While the holotype is individually labeled, we have no hint which of the remaining specimens could be the paratype. Since the series might have originally comprised 11 specimens, one individual, possibly the paratype, is missing. Five additional paratypes in BMNH and MCNG, three of them (MCNG C.E. 28149) syntypes of *Tarentola rudis* Boulenger, 1906 (according to the original description).

**Present name:** *Tarentola rudis protogigas* (see Schleich 1987).

***Tarentola caboverdianus* Schleich, 1984**

Cour. Forsch.-Inst. Senckenberg, 68: 98

**Holotype:** ZSM 141/1981/3 (given as ZSM 03.141/81 in the original description), female, “Sto. Antão” [Cape Verde], collected by Schleich & Wuttke, 09.1981 according to the jar label.

**Paratypes:** ZSM 141/1981/1-2, ZSM 141/1981/4-18 (given as ZSM 01-02.141/81 and ZSM 04-17.141/81 [sic] in the original description), 17 specimens, same data as holotype; ZSM 371/1978/1-5 (given as 371/78 in the original description) (missing), 5 specimens, “Sao Vicente” [Cape Verde], collected by H. H. Schleich, 08.1977; ZSM 140/1981/1-10 (given as ZSM 01-10.140/81 in the original description) (missing), 10 specimens, according to the card index from “Sao Vicente”, collected by Schleich & Wuttke, 09.1981.

**Remarks:** The series ZSM 141/1981 should contain the holotype plus 16 paratypes according to the original description (see also Schleich 1987). In fact the jar contains the holotype (individually labeled) and 17 paratypes. This may be either due to a miscounting, or one specimen was later added to the series.

**Present name:** *Tarentola caboverdiana caboverdiana* (see Schleich 1987).

***Tarentola caboverdianus nicolauensis* Schleich, 1984**

Cour. Forsch.-Inst. Senckenberg 68: 100

**Holotype:** ZSM 138/1981/2 (given as ZSM 02.138/81 in the original description), male, “S. Nicolau” [Cape Verde], collected by H. H. Schleich & H.-J. Gruber, 02.1981 according to the jar label.

**Paratypes:** ZSM 138/1981/1, ZSM 138/1981/3-11 (given as ZSM 01.138/81 and ZSM 03-11.138/81 in the original description), 10 specimens, same data as holotype.

**Present name:** *Tarentola caboverdiana nicolauensis*.

***Tarentola caboverdianus razianus* Schleich, 1984**

Cour. Forsch.-Inst. Senckenberg 68: 101

**Holotype:** ZSM 133/1981/1 (given as ZSM 01.133/81 in the original description), male, “Sta. Luzia” [Cape Verde], collected by H. H. Schleich & H.-J. Gruber, 02.1981 according to the jar label.

**Paratypes:** ZSM 133/1981/2-10 (given as ZSM 02-10.133/81 in the original description), 9 specimens, same data as holotype; ZSM 134/1981/1-9 (given as ZSM 01-10.134/81 in the original description), 9 specimens, “Razo”, collected by H. H. Schleich, 02.1981 according to the jar label.

**Remarks:** ZSM 134/1981 originally contained 10 specimens according to the original description. Actually the series consists of only 9 specimens. We regard the missing individual as probably lost.

**Present name:** *Tarentola caboverdiana raziana*.

***Tarentola darwini* Joger, 1984**

Cour. Forsch.-Inst. Senckenberg 71: 96

**Paratypes:** ZSM 365/1978, adult, “Tarafal, Sao Thiago”, collected by H. H. Schleich, 1977 (according to the jar label); ZSM 146/1981/1-2, 2 adults, “5 km südl. Tarafal, Sao Thiago”, collected by H. H. Schleich, 09.1981 (according to the jar label); ZSM 147/1981/1-5, 5 specimens, “Sao Thiago, Tarafal (Brücke v. T.)”, collected by H. H. Schleich, 09.1981 (according to the jar label).

**Remarks:** ZSM 146/1981 contains only one specimen according to the original description. However, Schleich (1987: Tab. p. 42) mentions two specimens

under the same number (ZSM “146.82.1”, “146.82.2” [sic]). We interpret the information in the original description as erroneous and regard both individuals of ZSM 146/1981 as paratypes. Holotype ZFMK 37256; three additional paratypes in MNHN and ZFMK according to the original description.

***Tarentola gigas brancoensis* Schleich, 1984**

Cour. Forsch.-Inst. Senckenberg 68: 104

**Holotype:** ZSM 362/1978/1 (given as ZSM 01.362/78 in the original description), female, “Branco”, according to the card index collected by H. H. Schleich, 07.1977.

**Paratypes:** ZSM 362/1978/2-8 (given as ZSM 02.-06.362/78 in the original description), 5 adults, 2 juveniles, same data as holotype; ZSM 19/1982/1-7 (given as ZSM 01.-12.19/82 in the original description), 7 specimens, collected by H. H. Schleich & H.-J. Gruber, 02.1981 according to the jar label.

**Remarks:** The catalogue number of ZSM 19/1982 given in the original description (“01.-12.19/82”) implies that the series originally consisted of 12 individuals. We have no information on the whereabouts of the lacking five specimens.

***Tarentola gomerensis* Joger & Bischoff, 1983**

Bonn. Zool. Beitr. 34 (4): 460

**Paratypes:** ZSM 68/1979/1-5, 5 specimens, all from “Valle Gran Rez [= Valle Gran Rey], Gomera/Kanarische Inseln”, collected by C. Boettger, 1913 (jar label); individual handwritten labels attached to the specimens (presumably by C. Boettger) provide different localities, scattered over the whole island: “Hermigua, Gomera” (ZSM 68/1979/1), “Ermita de la Nieves, Gomera” (ZSM 68/1979/2), “Valle Hermoso, Gomera” (ZSM 68/1979/3), “Valle de las Rosas, Gomera” (ZSM 68/1979/4); ZSM 68/1979/5 bears no individual label.

**Remarks:** Holotype ZFMK 35207 according to the original description. 29 additional paratypes in MNHN, ZFMK and ZMH.

***Tarentola mauritanica juliae* Joger, 1984**

Bonn. Zool. Beitr. 35(1-3): 145

**Paratype:** ZSM 72/1979 (given as ZSM 72/1079 in the original description), adult, “Ouarzazate”, collected by Linsenmair, 28.6.1967.

**Remarks:** Holotype ZFMK 26132 according to the original description. 33 additional paratypes in CNHM, MNHN, USNM and ZFMK.

***Tarentola rudis maioensis* Schleich, 1984**

Cour. Forsch.-Inst. Senckenberg 68: 98

**Holotype:** ZSM 136/1981/6 (given as ZSM 06.136/81 in the original description), male, “Maio” [Cape Verde], collected by H. H. Schleich & H.-J. Gruber, 01.1981 according to the jar label.

**Paratypes:** ZSM 136/1981/1-5, ZSM 136/1981/7-9 (given as ZSM 01.136/81-05.136/81, 07.136/81-09.136/81 in the original description), 8 specimens, same data as holotype according to jar label.

***Thecadactylus pollicaris* Spix, 1825**

Animal. Nova Spec. Nov. Lacert.: 17

**Lectotype:** ZSM 2510/0 (lost), “Habitat sub cortice arborum in sylvis interioris Bahiae campestribus” [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotypes:** ZSM 165/0/1-2 (ZSMH 165/0 A, B in Hoogmoed & Gruber 1983), male, female, same data as lectotype.

**Remarks:** Lectotype designation by Müller & Brongersma (1933); additional paralectotype: RMNH 2750.

**Present name:** *Phyllopezus pollicaris pollicaris* (Spix, 1825) according to Hoogmoed & Gruber (1983).

***Tropicolotes helenae fasciatus* Schmidtler & Schmidtler, 1972**

Salamandra 8(2): 62

**Holotype:** ZSM 501/1968 (given as ZSM 501/68 in the original description), male, “Dize, 125 km westl. Kermanshah, an der Straße nach Bagdad, Prov. Kermanshahan, Iran”, later in the text precised as “Shorkh-e-Dize” [= Sorkkeh Dizeh, 34°24'N, 46°03'E, according to Anderson 1999], collected by J. J. & J. F. Schmidtler, 23.4.1968 (according to the original description and jar label).

**Paratypes:** ZSM 400/1970/1-3 (given as ZSM 400/70 in the original description), 3 adults, “25 km westl. Khorramabad, an der Straße nach Ahvaz, Prov. Luristan, Iran”, collected by J. J. & J. F. Schmidtler, 24.5.1970.

**Remarks:** The catalogue number of the holotype is erroneously given as ZSM 500/68 by Anderson (1999). See Leviton et al. (1992: pl. 7h) for a life photograph of the holotype.



Fig. 7. Holotype of *Uroplatus pietschmanni* Böhle & Schönecker, 2004 (ZSM 613/2003).

***Uroplatus giganteus* Glaw, Kosuch, Henkel, Sound & Böhme, 2006**

*Salamandra* 42(2/3): 134

**Holotype:** ZSM 269/2004 (field number FGZC 517), adult male, “Montagne d’Ambre National Park, below Antamboka (12°29’S, 49°10’E, ca. 800 m alt.), northern Madagascar”, collected by F. Glaw, M. Puente, R. D. Randrianiaina & A. Razafimanantsoa, 22.02.2004.

**Paratype:** ZSM 267/2004 (field number FGZC 514), adult male with partly mazerated head, “Montagne d’Ambre National Park (12°29’S, 49°10’E, ca. 850 m alt.), northern Madagascar”, collected by F. Glaw, M. Puente, R. D. Randrianiaina & A. Razafimanantsoa, 21.02.2004.

***Uroplatus henkei* Böhme & Ibisch, 1990**

*Salamandra* 26: 253

**Paratypes:** ZSM 195/2006 (originally ZFMK 49279), adult male, ZSM 196/2006 (originally ZFMK 49280), adult female, “Nosy Bé” [Madagascar], collector and collection date not clear from the original description, but from Lokobe, collected by F. W. Henkel 1988 according to the ZFMK catalogue.

**Remarks:** Holotype in ZFMK; additional paratypes in ZFMK and SMF.

***Uroplatus pietschmanni* Böhle & Schönecker, 2004**

*Salamandra* 39(3/4) [“2003”]: 130

**Holotype:** ZSM 613/2003, adult male, “Fierenana (18°28’60”S, 48°23’60”O), etwa 60 km nördlich von Moramanga und 25 km östlich von Amboasary Gara, Provinz Toamasina, Ost-Madagaskar”, collected by A. Böhle, 24.2.2003.

**Remarks:** Two paratypes in SMF.

***Uroplatus sikorae sameiti* Böhme & Ibisch, 1990**

*Salamandra* 26: 249

**Paratypes:** ZSM 197/2006 (originally ZFMK 48156), male, Nosy Boraha (Ile Sainte Marie) [Madagascar], collector and collection date not given in the original description, but Henkel & Seipp 04.1988 according to the ZFMK catalogue; ZSM 198/2006 (originally ZFMK 51108), female, “Nosy Boraha (Ile Sainte Marie)” [Madagascar], collector and collection date not given in the original description, but Henkel & Sameit 1988/1989 according to the ZFMK catalogue.

**Remarks:** Holotype in ZFMK; additional paratypes in ZFMK and SMF.

### Gerrhosauridae Fitzinger, 1843

#### *Gerrhosaurus nigrolineatus ahlefeldti* Hellmich & Schmelcher, 1956

Zool. Anz. 156(7/8): 203

**Paratypes:** ZSM 63/1954/1-2, two males, "Piri-Dembos, Nova Roca Douro" [Angola], collected by v. Maydell, 11.10.-01.12.1952.

**Remarks:** According to the card index the two above mentioned paratypes are part of a series which originally consisted of four specimens. One of the jar labels mentioned that one specimen was given in exchange to SMF; the whereabouts of the remaining third specimen are unclear. Holotype (ZMH 806) and further paratypes in ZMH according to the original description.

#### *Zonosaurus brygooi* Lang & Böhme, 1990

Bull. Inst. Roy. Sci. Nat. Belg. Biol 59: 164

**Paratype:** ZSM 199/2006 (originally ZFMK 46790), adult, "Loucoubé, Nosy-Bé, Madagascar", collected by R. Seipp, 04.1987 according to the original description.

**Remarks:** Holotype in ZFMK; additional paratypes in ZFMK, ZMB, IRSNB and SMF. Despite intensive herpetofaunal surveys at Nosy Be, the occurrence of *Z. brygooi* on this island could not be confirmed and is considered as "likely erroneous" (Andreone et al. 2003).

### Gymnophthalmidae Merrem, 1820

#### *Athrosaura dorsistriata* Müller, 1923

Zool. Anz. 57(7/8): 147

**Holotype:** ZSM 138/1911 (lost), female, "Peixeboi (a. d. Bragançabahn), Staat Parà, Brasilien", collected by L. Müller, no date.

**Paratypes:** ZSM 142/1911 (lost), 2 juveniles, same data as holotype; ZSM 141/1911 (lost), male, "Utinga bei Belém (Parà), Brasilien", collected by L. Müller, 12.1909.

**Present name:** Junior synonym of *Arthrosaura kockii* (van Lidth, 1904) according to Peters & Donoso-Barros (1986) and Avila-Pires (1995).

#### *Cercosaura ocellata* Wagler, 1830

Nat. Syst. Amphib.: 158

**Holotype:** ZSM 643/0, adult, "Asia?" (according to the original description, erroneous), no locality data according to the jar label, no further collection data.

**Remarks:** The species is distributed in South America.

#### *Ecleopus (Aspidolaemus) affinis* Peters, 1863

Abh. Phys. Klasse Königl. Akad. Wiss. Berlin Akad., 1862(4): 199

**Holotype:** ZSM 644/0/1, adult, "Pichincha" [Ecuador] (according to the jar label and card index; without locality data according to the original description), collected by M. Wagner, no date.

**Paratypes** (?): ZSM 644/0/2-5, 3 adults, 1 subadult; all with the same data as the holotype.

**Remarks:** Peters' description is based on one specimen only ("Das beschriebene Exemplar befindet sich im Münchener Museum ...". ZSM 644/0/1 perfectly agrees with Peters' description and is without doubt the holotype. However, the complete series of ZSM 644/0 consists of five specimens. Since it is possible that Peters had more than one individual at hand when describing this taxon, we regard the remaining four individuals (ZSM 644/0/2-5) as questionable paratypes.

**Present name:** *Pholidobolus affinis* (Peters, 1863) according to Bauer et al. (1995).

#### *Heterodactylus imbricatus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 25

**Holotype:** ZSM 108/0 (lost), "Habitat in capitania interiore Rio de Janeiro" [Brazil, state of Rio de Janeiro] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Heterodactylus imbricatus* Spix, 1825 according to Hoogmoed & Gruber (1983).

#### *Hylosaurus percarinatus* Müller, 1923

Zool. Anz. 57(7/8): 146

**Holotype:** ZSM 140/1911, female, "Peixeboi (a. d. Bragançabahn), Staat Parà, Brasilien", collected by L. Müller, 06.1910 (jar label). This is a parthenogenetic species (Uzzell & Barry 1971).

**Remarks:** The holotype was regarded as possibly lost by Uzzell & Barry (1971). *Hylosaurus percarinatus* is the type species of the genus *Hylosaurus* Müller, 1923.

**Present name:** *Leposoma percarinatum* (Müller, 1923) according to Uzzell & Barry (1971).

#### *Leposoma scincoides* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 24

**Holotype:** ZSM 641/0 (lost), "Habitat ad ripam fluminis Amazonum" [Brazil, Rio Amazonas] according to the original description and (Vanzolini 1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** This species is only known from the Atlantic forest along the Brazilian coast, and the type locality consequently is wrong (Rodrigues & Borges 1997).

#### *Neusticurus surinamensis* Müller, 1924

Zool. Anz. 58: 295

**Holotype:** ZSM 20/1923 (lost), male, "Albina, Unterlauf des Maroni, Surinam", no further collection data.

**Present name:** Unclear, but provisionally placed into the synonymy of *Neusticurus rudis* Boulenger, 1900 by Hoogmoed (1973).

#### *Pholidobolus anomalus* Müller, 1923

Zool. Anz. 57(3/4): 58

**Holotype:** ZSM 29/1918 (lost), male, "Cuzko, Peru", no further collection data.

**Present name:** The generic status of this taxon was discussed by Montanucci (1973) but confirmed as a species of *Pholidobolus* by Reeder (1996).

#### *Tretioscincus brasiliensis* Müller, 1923

Zool. Anz. 57(3/4): 55

**Holotype:** ZSM 3/1922 (lost), male, "unterer Tocantins (Staat Parà), Brasilien" [= Rio Tocantins], collected by F. Lima, 1912.

**Present name:** Synonym of *Tretioscincus agilis* (Ruthven, 1916), see Avila-Pires (1995).

### Iguanidae Opperl, 1811 (sensu lato)

#### *Agama cyclurus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 14

**Holotype:** ZSM 525/0, juvenile, "Habitat in confinibus Bahiae" [Brazil, probably outskirts of Salvador (13°00'S, 38°30'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Tropidurus torquatus hispidus* (Spix, 1825) according to Hoogmoed & Gruber (1983).

#### *Agama hispida* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 12 (part., male), pl. 15, fig. 2

**Paralectotype:** ZSM 524/0, female, "Habitat sub arbustis et locis petrosi soli expositis Rio de Janeiro, Bahiae, formicis victitans" [Brazil, states of Rio de Janeiro and Bahia] according to the original description and Vanzolini (1981), collected by Spix and

Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype (RMNH 2912) designation by Hoogmoed & Gruber (1983).

**Present name:** *Tropidurus torquatus hispidus* (Spix, 1825) according to Hoogmoed & Gruber (1983).

#### *Agama nigrocollaris* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 13

**Lectotype:** ZSM 528/0/1 (ZSMH 528/0 A in Hoogmoed & Gruber 1983), juvenile female, "Habitat in Bahiae interiore" [Brazil, interior of (the former province of) Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 528/0/2 (ZSMH 528/0 B in Hoogmoed & Gruber 1983), female, with the same data.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Tropidurus torquatus hispidus* (Spix, 1825) according to Hoogmoed & Gruber (1983).

#### *Agama semitaeniata* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 13

**Paralectotypes:** ZSM 116/0/1-3 (ZSMH 116/0 A, B, C in Hoogmoed & Gruber 1983), 2 adult females, 1 subadult female, "Habitat sub petris in campis montosis Sincura provinciae Bahiae" [Brazil, Sincorá Velho (13°30'S, 41°12'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation (RMNH 2907) by Hoogmoed & Gruber (1983).

**Present name:** *Tropidurus semitaeniatus* (Spix, 1825) according to Hoogmoed & Gruber (1983) and Frost et al. (2001).

#### *Agama tuberculata* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: pl. 15, fig. 1

**Lectotype:** ZSM 531/0, female, "Habitat sub arbustis et locis petrosi soli expositis Rio de Janeiro, Bahiae, formicis victitans" [Brazil, states of Rio de Janeiro and Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotypes:** ZSM 523/0, female; ZSM 527/0 (lost), both with the same data as the lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Tropidurus torquatus torquatus* (Wied, 1820) according to Hoogmoed & Gruber (1983).



Fig. 8. Lectotype of *Helocephalus nigriceps* Philippi, 1860 (ZSM 38/1930), currently *Liolaemus nigriceps*.

***Anolis petersii* var. *bivittata* Werner, 1896**

Verh. Zool.-Bot. Ges. Wien 46: 351

**Holotype:** ZSM 476/0, male, "Guatemala" (original description and label data), collected by K. Sapper, 1891.

**Remarks:** Stuart (1955) erroneously cited the catalogue number of the specimen as "ZSBS 47610". The type locality of this taxon was restricted to "Cobán, Guatemala" by Smith & Taylor (1950b: 317), but this view was not accepted by Dunn & Stuart (1951: 59).

**Present name:** *Norops petersii* (Bocourt, 1873) is currently regarded as monotypic (Stuart 1955: 21).

***Anolis violaceus* Spix, 1825**

Animal. Nova Spec. Nov. Lacert.: 15

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), "Habitat in confinibus Parae", probably outskirts of Belém (01°26'S, 48°29'W) according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** Synonym of *Anolis punctatus* Daudin, 1802 according to Avila-Pires (1995).

***Gecko cruciger* Spix, 1825**

Animal. Nova Spec. Nov. Lacert.: 16

***Lophyrus cruciger* Spix, 1825**

Animal. Nova Spec. Nov. Lacert.: pl. 13, fig. 3

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), "Habitat in provincia Bahiae" [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** Probably *Norops fuscoauratus* (d'Orbigny, 1837) (specimen figured in pl. 13, fig. 3) according to Hoogmoed & Gruber (1983).

***Helocephalus nigriceps* Philippi, 1860**

Reise durch die Wüste Atacama, auf Befehl der chilenischen Regierung im Sommer 1853-1854: 167

**Lectotype:** ZSM 38/1930, male, "bei Pajonal, 10500 Fuss über dem Meere" (according to the jar label "Pajonal, Desierto de Atacama") [24°24'S, 68°41'E, Chile], collected by R. A. Philippi, 1860.

**Remarks:** The specimen was received from MNHNC according to the jar label (see also Ortiz & Núñez 1986 for further comments). The second of the originally two syntypes (previously in MNHNC) is presumed to be lost. Lectotype designation by Ortiz



& Núñez (1986). Bartkowski (1986, unpublished master thesis), gives a detailed description of the specimen and also considered it as lectotype (“Hololectotypus”).

**Present name:** *Liolaemus nigriceps* (Philippi, 1860) according to Etheridge (1995).

### *Iguana coerulea* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 7

**Syntypes:** ZSM 71/0 (lost), 2 individuals, probably juveniles, “Habitat in lociis ripariis vel humidis Rio St. Francisci supra ramos arbustorum” [Brazil, Rio São Francisco, probably near Pedras de Maria da Cruz (15°37'S, 44°23'W), near Januaria (15°29'S, 44°23'W), or near Joazeiro (09°24'S, 40°30'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Iguana iguana iguana* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

### *Iguana emarginata* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 7

**Holotype:** ZSM 535/0, juvenile, “Habitat ad flumen Rio St. Francisci supra ramos arbustorum” [Brazil, Rio São Francisco, probably near Pedras de Maria da Cruz (15°37'S, 44°23'W), near Januaria (15°29'S, 44°23'W), or near Joazeiro (09°24'S, 40°30'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Iguana iguana iguana* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

### *Iguana lophyroides* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 8

**Lectotype:** ZSM 546/0/1 (ZSMH 546/0 A in Hoogmoed & Gruber 1983), juvenile, “Habitat non rara supra ramos in sylvis Rio de Janeiro, Bahiae” [Brazil, states of Rio de Janeiro (erroneous) and Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotypes:** ZSM 546/0/2 (ZSMH 546/0 B in Hoogmoed & Gruber 1983), juvenile; ZSM 536/0, juvenile; all with the same data as the lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983); additional paralectotype: RMNH 2780.

**Present name:** *Iguana iguana iguana* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

### *Iguana squamosa* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 5

**Lectotype:** ZSM 537/0, female, “Habitat [...] supra arbores ad ripam lacus et fluminum Bahiae, Parae” [Brazil, former province of Bahia (part of the present state of Bahia) and most probably Belém (01°26'S, 48°29'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotypes:** ZSM 2716/0, male; ZSM 3217/0, male; ZSM 542/0 (lost); all with the same data as the lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983). ZSM 3217/0 was regarded as destroyed during World War II by Hoogmoed & Gruber (1983); however, it is still extant.

**Present name:** *Iguana iguana iguana* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

### *Iguana viridis* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 6

**Lectotype:** ZSM 540/0, male, “Habitat [...] supra ripam Rio St. Francisci et Itapicuru” [Brazil, Rio São Francisco, probably near Pedras de Maria da Cruz (15°37'S, 44°23'W), near Januaria (15°29'S, 44°23'W), or near Joazeiro (09°24'S, 40°30'W); Rio Itapicuru, probably between Caxias (04°50'S, 43°21'W) and Arrarial (02°37'S, 44°41'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Iguana iguana iguana* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

### *Liolaemus altissimus altissimus* Müller & Hellmich, 1932

Zool. Anz. 98(7/8): 197

**Holotype:** ZSM 66/1931, male, “Fierro Carrera (Rio de San Francisco, Massiv Cerro de Plomo), Mit-telchile, 2700 m”, collected by W. Hellmich, 23.12.1930 (jar label).

**Paratypes:** ZSM 67/1931, female, same data as holotype; ZSM 68/1931/1-7 (originally ZSM 68/1931/a-i, 9 males, two specimens lost), 5 adult, 2 subadult males, collected by W. Hellmich & W. Schröder, 23.12.1930 (jar label), 27.12.1930 (original description); ZSM 69/1931/1-10 (ZSM 69/1931/a-n, 13 females [original description], ZSM 69/1931/a-m, 12 females [jar label]), 10 females, collected by W. Hellmich & W. Schröder, 23.12.1930 (jar label), 27.12.1930 (original description); ZSM 70/1931/1-4 (originally ZSM 70/1931/a-d), 2 females, 2 juveniles,

“Cerro de Ramón, Mittelchile”, 2600-3200 m (jar label), collected by W. Hellmich, 23.11.1930.

***Liolaemus altissimus araucaniensis*  
Müller & Hellmich, 1932**

Zool. Anz., 98(7/8): 205

**Holotype**“ZSM 72/1931, female, “Volcán Villarica, Südchile, 1400 m”, collected by W. Hellmich, 27.01.1931.

**Paratypes**“ZSM 73/1931/1-2 (originally ZSM 73/1931/a-b), 1 female, 1 juvenile, same data as holotype.

***Liolaemus altissimus moradoënsis* Hellmich, 1950**

Veröff. Zool. Staatssamml. München 1: 136

**Holotype**: ZSM 216/1947, male, “Laguna del Morado (Lo Valdés), 2400 m, Hochkordillere von Santiago” [Chile], collected by W. Schröder, 11.03.1933.

**Paratypes**: ZSM 217/1947/1-5 (originally ZSM 217/1947a-e), 4 males, 1 female, same data as holotype, but collected by Schröder & Grandjot; ZSM 71/1931/1-2 (originally ZSM 71/1931a-b), 2 females, “Troglal des Cerro Morado, 2400 m”, collected by W. Hellmich, 02.11.1930.

***Liolaemus altissimus neuquensis*  
Müller & Hellmich, 1939**

Zool. Anz. 125(5/6): 113

**Holotype**: ZSM 35/1938, male, “Volcán Copahue, unterhalb der Baños de Copahue, ca. 1800 m” [Chile], collected by W. Goetsch, 08.01.1938.

**Paratypes**: ZSM 218/1947/1 (originally Museum Breslau, Coll.-Nr. 46) (missing), adult, “Volcán Copahue, an der Maquinita, ca. 1900 m”, collected by W. Goetsch, 07.01.1938; ZSM 218/1947/2 (originally Museum Breslau, Coll.-Nr. 42) (missing), subadult, “Volcán Copahue, ca. 2300 m”, collected by W. Goetsch, 08.01.1938; ZSM 218/1947/3 (originally Museum Breslau, Coll.-Nr. 45) (missing), juvenile, “Volcán Copahue, obere *Nothofagus*-Zone, ca. 1400 m”, collected by W. Goetsch, 08.01.1938.

***Liolaemus annectens orientalis* Müller, 1924**

Mitt. Zool. Mus. Berlin 11: 81

**Paratypes**: ZSM 26/1924/1-2 (originally ZMB specimens, catalogue number unknown), 1 male, 1 juvenile male, “oberer Plicomayo, Bolivien”, collected by Herrmann, no date (jar label); ZSM 281/1989/1-2 (originally ZMB specimens, catalogue number unknown), 1 male, 1 female, same data as ZSM 26/1924/1-2.

**Present name**: *Liolaemus orientalis* Müller, 1924 (fide Laurent 1992).

***Liolaemus fittkaui* Laurent, 1986**

Acta Zool. Lilloana 38(2): 94

**Holotype**: ZSM 17/1983, male, “Región des Cochabamba, Bolivia”, collected by H. Marcus, no date.

**Remarks**: Four paratypes in UMMZ according to the original description.

***Liolaemus forsteri* Laurent, 1982**

Spixiana 5(2): 139

**Holotype**: ZSM 646/1979/1 (given as ZSM n 646/1979 in the original description), male, “Chacaltaya (4700 m) près de La Paz, Bolivie” (original description), collected by W. Forster, 26.03.1954 (jar label).

**Remarks**: The complete series of ZSM 646/1979 consists of one adult male (the above mentioned holotype) and 9 juvenile specimens. One of the jar labels is handwritten, most probably by Laurent, and bears the following text: “*Liolaemus foersteri* sp. n., Paratypes – Juveniles, Det. Laurent 1979”. However, since these specimens (ZSM 646/1979/2-10) are not mentioned in the original description their type status is questionable.

***Liolaemus goetschi* Müller & Hellmich, 1938**

Zool. Anz. 123(5/6): 130

**Holotype**: ZSM 4/1938, male, “Weg zur Laguna Playa (bei Fuerte General Roca)” [Chile], collected by W. Goetsch, 29.12.1937.

**Paratype**: ZSM 5/1938, female, “Laguna Playa (Meseta im Norden von Roca)”, collected by W. Goetsch, 29.12.1937 (jar label).

**Remarks**: According to the original description four additional paratypes in “Museum Breslau”. Bartkowski (1986), in her unpublished master thesis, mentioned two further paratypes (ZSM 143/1938, one male, one female, “am Rio Neuquén (Busch-Meseta), Argentinien, Dez. 1937, Dr. Krieg”). However, since these individuals were not mentioned in the original description we regard them as not belonging to the type series.

**Present name**: Synonym of *Liolaemus melanops melanops* Burmeister, 1888 (fide Cei 1986).

***Liolaemus hatcheri* Stejneger, 1909**

Reports of the Princeton University Expeditions to Patagonia, 1896-1899, Vol. 3, Pt. 1, Batrachians and Reptiles: 218

**Paratype**: ZSM 14/1961 (originally “Smiths. Inst. Cat. Nr. 36910”), female, “N. of Santa Cruz river, Patagonia / Argentinien”, collected by J. B. Hatcher, no date.

**Remarks**: Specimen received in exchange from USNM. Cochran (1961) gives the following data for

the USNM types: “plains of Patagonia, Santa Cruz Territory, Argentina, J. B. Hatcher 1898”.

***Liolaemus huacahuasicus* Laurent, 1985**

Spixiana 8(3): 241

**Paratypes:** ZSM 258/1982/1-2, male (originally FML 00538/9), female (originally FML 00538/2), “Lagunas de Huaca Huasi, Cumbres Calchaquies, 4250 m, Province de Tucumán, Argentine” (original description), “Departamento Tafi” (jar label), collected by S. Halloy & E. Krapovickas (original description), additional collectors according to the jar label: Sobral & Gonzáles, 21.04.-03.05.1972.

**Remarks:** Holotype (FML 00535/2) and numerous additional paratypes in FML according to the original description.

***Liolaemus kriegi* Müller & Hellmich, 1939**

Zool. Anz. 127: 44

**Holotype:** ZSM 137/1938 (given as ZSM 137/138 in the original description), female, “Estancia El Condor bei Bariloche, Patagonien” [Argentina], collected by H. Krieg, 01.1938.

***Liolaemus leopardinus leopardinus*  
Müller & Hellmich, 1932**

Zool. Anz. 97(11/12): 309

**Holotype:** ZSM 39/1931, female, “Fierro Carrera, Rio de San Francisco (Massiv Cerro de Plomo), 2700 m, Mittelchile”, collected by W. Hellmich, 23.12.1930.

**Paratypes:** ZSM 40/1931/1-3 (originally ZSM 40/1931/a-c), 2 males, 1 juvenile female, same data as holotype.

**Present name:** *Liolaemus leopardinus* is regarded as monotypic by Núñez & Jaksic (1992).

***Liolaemus leopardinus ramonensis*  
Müller & Hellmich, 1932**

Zool. Anz. 97(11/12): 314

**Holotype:** ZSM 41/1931, female, “Cerro de Ramón, 2600 m (Mittelchile)”, collected by W. Hellmich, 23.11.1930.

**Paratypes:** ZSM 42/1931/1-2 (originally ZSM 42/1931/a-b), 2 males, “Abanico (Vorberg des Ramón), 2400 m”, collected by W. Hellmich, 05.10.1930.

**Present name:** *Liolaemus ramonensis* according to Núñez & Jaksic (1992).

***Liolaemus leopardinus valdesianus* Hellmich, 1950**

Veröff. Zool. Staatssamml. München 1: 142

**Holotype:** ZSM 206/1947, male, “Lo Valdés, Morales, Volcán-Tal, 2300 m” [Chile], collected by W. Schröder, 13.03.1933.

**Paratypes:** ZSM 207/1947/1-8 (originally ZSM 207/1947 a-h), 8 females, same data as holotype, but collected 11.-13.03.1933.

**Present name:** Regarded as a full species, *Liolaemus valdesianus* by Núñez & Jaksic (1992).

***Liolaemus lorenmülleri* Hellmich, 1950**

Veröff. Zool. Staatssamml. München 1: 144

**Holotype:** ZSM 208/1947, male, “Nueva Elqui, 2300 m, Nordchile”, collected by W. Schröder, 05.01.1932.

**Paratypes:** ZSM 108/1947, male, same data as holotype; ZSM 109/1947/1-5 (originally ZSM 109/1947a-e), 3 males, 2 females, same data as holotype; ZSM 110/1947, male, “Rio Seco” (original description), 3200 m (jar label), collected by W. Schröder, 06.01.1932.

**Present name:** *Liolaemus lorenmülleri* Hellmich, 1950.

***Liolaemus monticola chillanensis*  
Müller & Hellmich, 1932**

Zool. Anz., 99(7/8): 183

**Holotype:** ZSM 59/1931 (missing), male, “Termas de Chillan, 1700 m” [Chile], collected by W. Hellmich, 08.01.1931.

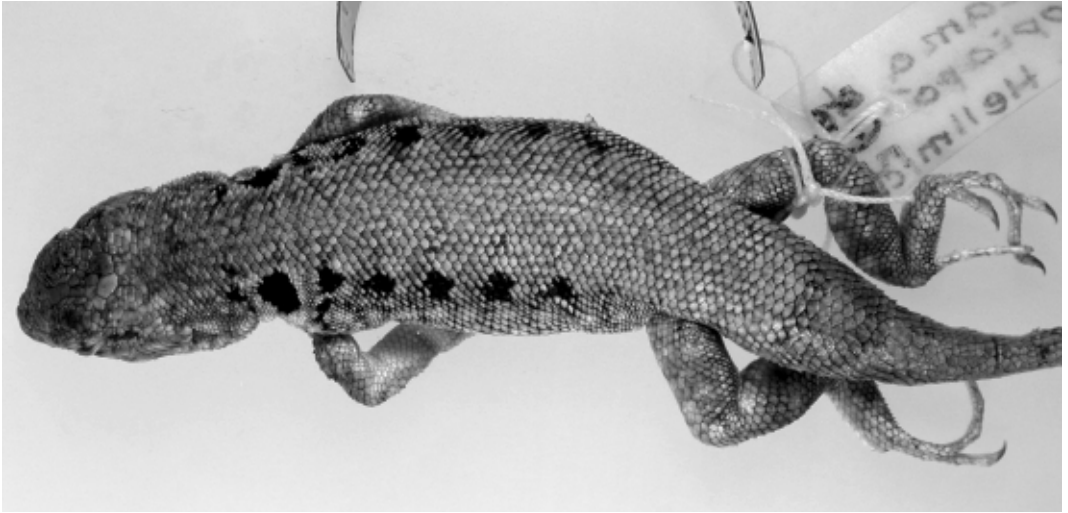
**Paratypes:** ZSM 60/1931/1-2 (original field numbers 727 and 728), 2 males, same data as holotype; ZSM 61/1931/1-2 (field numbers 725, 735), 2 females, “Termas de Chillan”, collected by W. Hellmich & W. Goetsch, 08.01.1931; ZSM 62/1931/1-9 (originally 10 specimens, field numbers 726, 729-733, 736-738, one individual [field number 734] missing), 9 females, “Termas de Chillan”, collected by W. Hellmich & W. Goetsch, 08.01.1931.

***Liolaemus monticola monticola* Müller & Hellmich, 1932**

Zool. Anz., 99(7/8): 177

**Holotype:** ZSM 48/1931, male, “Tal des Rio de San Francisco, ca. 1700 m” [Chile], collected by W. Hellmich, 27.12.1930.

**Paratypes:** ZSM 49/1931/1-6 (originally ZSM 49/1931/a-i), 3 males, 3 females, “La Hermita, Tal des Rio San Francisco, 1180-1700 m”, collected by W. Hellmich, 26.-27.10.1930; ZSM 50/1931/1-3 (originally ZSM 50/1931/a-c), 2 males, 1 female, “Casa



**Fig. 9.** Syntype of *Liolaemus nigromaculatus atacamensis* Müller & Hellmich, 1933 (ZSM 180/1931/1), currently *Liolaemus atacamensis*.

de Piedra, 1500 m, M. Chile”, collected by W. Hellmich, 05.10.1930; ZSM 51/1931/1-7 (originally ZSM 51/1931/a-g), 3 males, 4 females, “Quebrada de Ramon” (original description), “Quebrada de Peñalalen”, 1200-1500 m, M. Chile” (jar label), collected by Hellmich, 22.11. and 08.12.1930; ZSM 52/1931/1-3 (originally ZSM 52/1931/a-c), 2 males, 1 female, “Cerro de la Provincia, ca. 1600 m, Mittelchile” (jar label), collected by W. Hellmich, 18.09.1930; ZSM 53/1931, juvenile, “Apoquindo, 900 m, Mittelchile” (jar label), collected by W. Hellmich, 30.10.1930; ZSM 54/1931/1-2 (originally ZSM 54/1931/a-b), 2 females, “El Volcán (M. Chile), 1400 m” (jar label), collected by W. Goetsch, 01.11.1930; ZSM 55/1931, male, “Cuesta de Chacabuco (Mittelchile)” (jar label), collected by Hellmich, 15.11.1930; ZSM 56/1931, female, “Colina (ca. 1000 m), Mittelchile” (jar label), collected by Castro, 07.11.1930.

**Remarks:** ZSM 49/1931/1-6 originally consisted of 8 specimens according to the original description. According to the jar label, one specimen (female, field number 612) was given to the Breslau Museum. The remaining specimen (male, field number 610) is probably lost. The series ZSM 50/1931-ZSM 56/1931 are listed (Tab. 1, p. 182), but are not explicitly mentioned as paratypes in the original description. However, according to their jar labels all these specimens should be regarded as paratypes. Of two additional series mentioned in the same table, ZSM 57/1931a-e (2 males, 3 females, Cerro San Cristobal, 10.09.-24.10.1931, collected by Goetsch & Hellmich) is probably lost, whereas ZSM 58/1931a-g (6 adults, 1 juvenile, “weitere Umgebung von Valparaiso, 1930,

collected by Kuhlmann) is not labeled as paratype series.

***Liolaemus monticola villaricensis*  
Müller & Hellmich, 1932**

Zool. Anz., 99(7/8): 189

**Holotype:** ZSM 64/1931, male, “Volcán Villarica, 1400 m, Südkhile”, collected by W. Goetsch, 27.01.1931.

**Paratypes:** ZSM 65/1931/1-5 (originally ZSM 65/1931/a-f, 6 individuals: in error?), 5 females, same locality as holotype, collected by W. Goetsch & W. Hellmich, 27.01.1931.

***Liolaemus nigromaculatus atacamensis*  
Müller & Hellmich, 1933**

Zool. Anz., 103: 129

**Syntypes:** ZSM 180/1931/1-2 (given as ZSM 180/1931a-b in the original description), male, female, “Atacama, nordöstlich von Copiapó, Nordchile”, collected by W. Hellmich, 26.09.1930.

**Remarks:** Jar labels attached to the two specimens state that ZSM 180/1931/1 (male) should be regarded as lectotype and ZSM 180/1931/2 (female) as paralectotype. However, we have no information that a lectotype designation has ever been published and therefore continue to regard the two specimens as syntypes.

The ZSM houses two additional series which are labeled as “paratypes” on their jar labels (ZSM 208/1931, 1 specimen, with the same data as the syntypes; ZSM 209/1931/1-18, “Punta Colorado”,

collected by W. Goetsch, 09.1929; ZSM 187/1947/1-13, “La Serena (150 m), Chile”, collected by W. Schröder, 27.12.1932-11.01.1933). However, since these specimens were not mentioned in the original description, their type status is questionable. Hellmich (1934: Tab. p. 51) also mentioned only the two specimens of ZSM 180/1931 as “Typen”.

**Present name:** *Liolaemus atacamensis* according to Simonetti & Núñez (1986).

***Liolaemus nigromaculatus copiapensis*  
Müller & Hellmich, 1933**

Zool. Anz., 103: 135

**Syntypes:** ZSM 182/1931/1-2 (originally ZSM 182/1931a-b), male, female, “Copiapó (Nordchile)”, collected by W. Hellmich, 29.09.1930.

**Remarks:** The two syntypes are labeled as “lectotype” (ZSM 182/1931/1, male) and “paralectotype” (ZSM 182/1931/2, female) on their jar labels. Since we have no information that a lectotype designation has ever been published, we continue to regard the two specimens as syntypes.

There is no additional type material mentioned in the original description. However, the following specimens collected at the type locality, partly together with the syntypes (see Hellmich 1934: Tab. p. 55), are labeled as “paratypes” on their jar labels: ZSM 214/1931/1-11 (originally ZSM 214/1931/a-o), ZSM 215/1931/1-8 (originally ZSM 215/1931a-h), ZSM 216/1931/1-17 (originally ZSM 216/1931a-s), ZSM 217/1931/1-15 (originally ZSM 217/1931a-p), all from “Copiapó (Chile)”, collected by W. Goetsch & W. Hellmich, 24.-29.9.1930. The type status of these specimens is questionable as they were not mentioned in the original description. Hellmich (1934: Tab. p. 55) also mentioned only the two specimens of ZSM 182/1931 as “Typen”.

**Present name:** *Liolaemus copiapensis* according to Ortiz (1981).

***Liolaemus nigromaculatus kuhlmanni*  
Müller & Hellmich, 1933**

Zool. Anz., 103: 139

**Syntypes:** ZSM 184/1931/1-2 (originally ZSM 184/1931a-b), male, female, “Jamel bei Los Andes (Mittelchile)” (original description), collected by O. Kuhlmann, 1928.

**Remarks:** No additional types mentioned in the original description. However, the following series, partly with the same collection data as the syntypes (see also Hellmich 1934: Tab. p. 60), are labeled as “paratypes” or “lectotype” on their jar labels: ZSM 28/1931/1-3 (originally ZSM 28/1931/a-c), “La Serena (Chile)”, collected by W. Goetsch, 09. 1929;

ZSM 29/1931/1-3 (originally ZSM 29/1931/a-c), “Cachagua b. Zapallar, Chile”, collected by Hellmich & Goetsch, 1929-1930; ZSM 225/1931/1-3 (originally ZSM 225/1931/a-c), “Valparaiso, Chile”, collected by O. Kuhlmann, 1926; ZSM 226/1931/1-18 (originally ZSM 226/1931/a-r), “Jahuel bei Los Andes (Chile)”, collected by O. Kuhlmann, no date; ZSM 227/1931/1-25 (originally ZSM 230/1931/a-y), ZSM 228/1931/1-20 (originally ZSM 230/1931/a-w [sic]), ZSM 230/1931/1-11 (originally ZSM 230/1931/a-k), all “Valparaiso, Chile”, collected by O. Kuhlmann, no date; ZSM 229/1931/1-4 (originally ZSM 230/1931/a-d), “Valparaiso, Chile”, collected by O. Kuhlmann, 1928; ZSM 180/1947/1-8 (originally ZSM 180/1947), “Coquimbo – La Serena, Chile”, collected by W. Schröder, 30.12.1932-11.01.1933. The type status of these specimens is questionable as they were not mentioned in the original description. Despite the labeling “lectotype” for ZSM 184/1931/1 (male) and “paralectotype” for several other specimens of some of the above mentioned series, we continue to regard the two published types as syntypes. We have no information that a lectotype designation has ever been published. Hellmich (1934: Tab. p. 58) also mentioned only the two specimens of ZSM 184/1931 as “Typen”. The name of the type locality has been corrected to “Jahuel bei Los Andes” and “Jahuel de los Andes, Chile” by Hellmich (1934) and Donoso-Barros (1966).

**Present name:** *Liolaemus kuhlmanni* according to Ortiz (1981).

***Liolaemus nigromaculatus zapallarensis*  
Müller & Hellmich, 1933**

Zool. Anz., 103: 137

**Holotype:** ZSM 183/1931, male, “Zapallar (Mittelchile)”, collected by W. Hellmich, 02.09.1930.

**Remarks:** No paratypes mentioned in the original description. However, the following series, partly with the same collection data as the holotype, are labeled as “paratypes” on their jar labels (see also Hellmich 1934: Tab. p. 58): ZSM 219/1931/a-b, 2 females, “Zapallar (Chile)”, collected by W. Goetsch, 09.1929; ZSM 220/1931/a-b, 2 females, same locality and collector, collected by 03.09.1930; ZSM 221/1931, 1 male, “Papudo, Chile”, collected by W. Hellmich, 04.09.1930; ZSM 222/1931, 1 female, “La Serena, Chile”, collected by Ripoll, 06.12.1930; ZSM 223/1931, 1 male, “Coquimbo (Chile)”, collected by W. Goetsch, 09.1929; ZSM 222/1931, 1 female, “La Serena, Chile”, collected by Ripoll, 06.12.1930; ZSM 224/1931, 1 male, “?Contulmo?”, collected by Kuhlmann, 1926. Hellmich (1934: Tab. p. 58) mentioned only ZSM 183/1931 as “Typus”.

**Present name:** The taxon is listed as a full species,

*Liolaemus zapallarensis* Müller & Hellmich, 1933, by Ortiz (1981).

***Liolaemus nigroviridis campanae* Hellmich, 1950**

Veröff. Zool. Staatssamml. München 1: 152

**Holotype:** ZSM 195/1947, male, “Campana, Küstenkordillere von Valparaiso, 1800 m Chile”, collected by W. Schröder, 24.04.1933.

**Paratypes:** ZSM 196/1947/1-10 (originally ZSM 196/1947a-k), 4 males, 6 females, same data as holotype; ZSM 194/1947/1-3 (originally ZSM 194/1947a-c), 1 male, 1 female, 1 subadult, “Vizcacha, 2000 m”, collected by W. Schröder, 24.04.1933 (original description), 01.05.1933 (jar label).

**Remarks:** The paratype catalogue number “ZSM 196/1947a-k” given in the original description indicates that the series consists of 11 specimens. However, there are only 10 specimens listed in the original description.

**Present name:** *Liolaemus nigroviridis* is regarded as monotypic by Núñez & Jaksic (1992).

***Liolaemus nigroviridis minor* Müller & Hellmich, 1932**

Zool. Anz., 97(11/12): 326

**Holotype:** ZSM 46/1931, male, “El Volcán (Hochtal in der Nähe von Santiago de Chile)”, collected by W. Goetsch, 01.11.1930.

**Paratypes:** ZSM 47/1931/1-4 (originally ZSM 47/1931/a-l, individual numbers 431, 434, 435, 437), 4 males, same data as holotype; ZSM 47/1931/5-6 (originally ZSM 47/1931/a-l, individual numbers 447, 448), 2 males, “Baños Morales”, collected by W. Goetsch, 03.11.1931; ZSM 47/1931/7-9 (originally ZSM 47/1931/a-l, individual numbers 441, 442, 445), 2 males, 1 female, “Moräne am Cerro Morado”, collected by W. Goetsch, 03.11.1930; ZSM 47/1931/10 (originally ZSM 47/1931/a-l, individual number 446), female, “Moräne am Cerro Morado”, collected by W. Hellmich, 03.11.1930.

**Remarks:** The old catalogue number ZSM 47/1931/a-l indicates that the paratype series consists of 12 specimens. However, there were only 11 specimens mentioned in the original description, one of them (individual number 445, female, “Moräne am Cerro Colorado”) listed twice. Therefore we have no doubt that the series of today 10 specimens is complete.

**Present name:** *Liolaemus nigroviridis* Müller & Hellmich, 1932 is regarded as monotypic by Núñez & Jaksic (1992).

***Liolaemus nigroviridis nigroviridis* Müller & Hellmich, 1932**

Zool. Anz. 97(11/12): 318

**Holotype:** ZSM 43/1930, male, “Rio de San Francisco, ca. 2400 m (Massiv des Cerro del Plomo), Mittelchile”, collected by W. Hellmich, 27.12.1930.

**Paratypes:** ZSM 44/1931/1-2 (originally ZSM 44/1931/a-c, 3 specimens, one probably lost), male, female, “Rio de San Francisco”, collected by W. Hellmich, 27.12.1930; ZSM 45/1931, male, “Cerro de Ramón, 2500 m (Mittelchile)”, collected by W. Hellmich, 28.11.1930.

**Remarks:** According to the original description ZSM 44/1931/a-c originally consisted of 3 specimens (1 male, 2 females). Actually, the jar contains only 1 male and 1 female.

**Present name:** *Liolaemus nigroviridis* Müller & Hellmich, 1932 is regarded as monotypic by Núñez & Jaksic (1992).

***Liolaemus orientalis chlorostictus* Laurent, 1993**

Acta Zoológica Lilloana 40(2) (“1991”): 98

**Paratypes:** ZSM 280/1989/1-2, 2 males, “Lipek cerca de San Isabel, Bolivia” (original description), locality within “Argentina” at 3700 m altitude (jar label), collected by J. Hertel, 06.1927.

**Remarks:** No catalogue number mentioned in the original description (“ZSM sin número”). According to the original description the collection site of the two specimens is most probably Lipez near to Santa Isabel, 21°37'S, 66°31'W.

***Liolaemus ortizi* Laurent, 1982**

Spixiana 5(2): 142

**Holotype:** ZSM 647/1979, male, “Cuzco, Peru”, no further collection data.

**Remarks:** One paratype in MCZ according to the original description.

***Liolaemus pictus argentinus* Müller & Hellmich, 1939**

Zool. Anz. 128(1/2): 7

**Holotype:** ZSM 138/1938, male, “Estancia El Condor, an Waldblößen um den Lago Nahuel Huapi” [Argentina], collected by H. Krieg, 12.1937.

**Paratypes:** ZSM 139/1938/1-16, 6 males, 10 females; ZSM 140/1938/1-7, 6 subadults, 1 juvenile; ZSM 141/1938/1-8 (cited as unnumbered paratypes in the original description), 1 male, 7 females and subadults; all with the same data as the holotype.

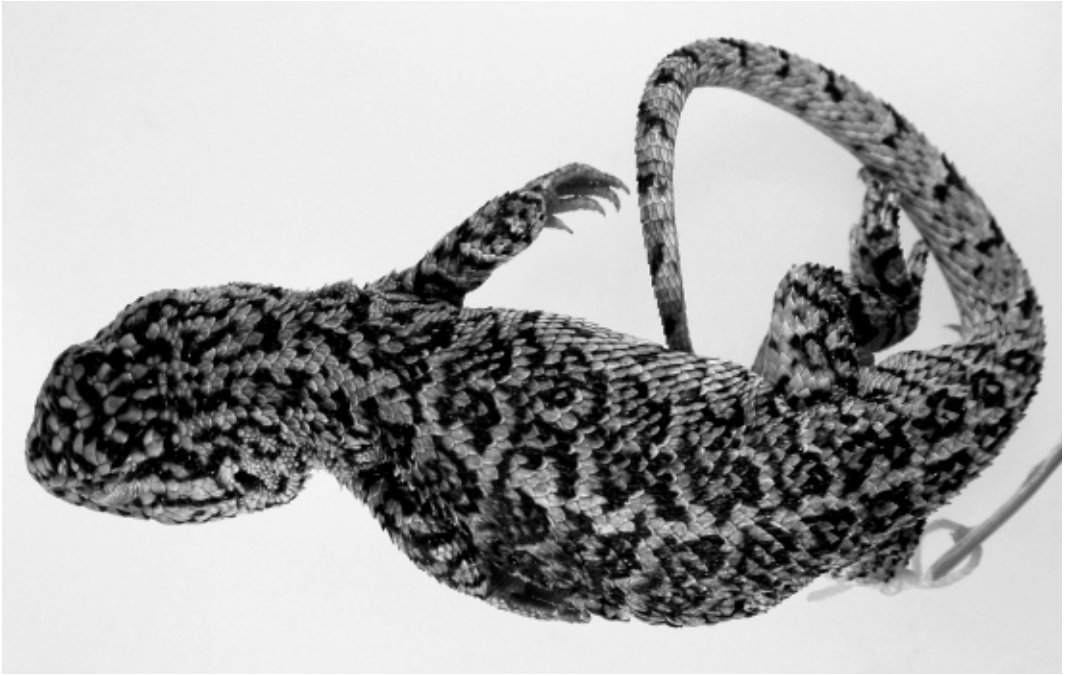


Fig. 10. Holotype of *Liolaemus ortizi* Laurent, 1982 (ZSM 647/1979).

***Liolaemus pictus chiloënsis* Müller & Hellmich, 1939**

Zool. Anz. 128(1/2): 12

**Holotype:** ZSM 194/1931, male, "Strandfelsen bei Ancud, Chiloë" [Chile], collected by W. Hellmich, 04.02.1931.

**Remarks:** The holotype has been erroneously catalogued a second time under the number ZSM 660/1979.

**Present name:** *Liolaemus pictus chiloensis* Müller & Hellmich, 1939.

***Liolaemus platei curicensis* Müller & Hellmich, 1938**

Zool. Anz., 122(9/10): 231

**Holotype:** ZSM 58/1933, male, "Los Queñes, Kord. von Curicó, 1500 m" (original description), "1400-1500 m" (jar label) [Chile], collected by W. Schröder, 20.01.1933.

**Paratypes:** ZSM 59/1933/1-9, 2 males, 7 females, "Los Queñes, Kord. von Curicó, 1000-1600 m", collected by W. Schröder, 20.-22.01.1933; ZSM 60/1933/1-8, 2 males, 5 females, 1 juvenile, "Rio Tenotal (Los Cipreses), Kord. von Curicó, 1400 m", collected by W. Schröder, 24.01.1933.

**Present name:** *Liolaemus curicensis* Müller & Hellmich, 1938 according to Ortiz (1981).

***Liolaemus robertmertensi* Hellmich, 1964**

Senck. biol. 45(3/5): 505

**Holotype:** ZSM 152/1926, male, "Gebirge in der Umgebung von Belém, Prov. Catamarca, Argentinien", collected by V. Weiser, 28.12.1926.

**Paratypes:** ZSM 153/1926/1-6, 4 males, 2 females, same data as holotype.

***Liolaemus scapularis* Laurent, 1982**

Spixiana 5(2): 144

**Holotype:** ZSM 648/1979, male, "Nacimiento, Prov. Catamarca, Argentine", collected by Welser (original description), collected by "Weiser" (jar label), 08.1922.

**Paratypes:** ZSM 649/1979/1-5, 2 females, 3 juveniles, same data as holotype; ZSM 650/1979/1-2, 1 male, 1 female, "Famabalasto, Prov. Catamarca, Argentine", 1922; ZSM 651/1979/1-2, 1 female, 1 juvenile, "Famabalasto, Prov. Catamarca, Argentine", 1922; all with the same collector as the holotype.

**Remarks:** A total of 32 paratypes in FML according to the original description.

***Liolaemus schröderi* Müller & Hellmich, 1938**

Zool. Anz., 122(9/10): 225

**Holotype:** ZSM 53/1933, female, “Los Queñes (Curicó), 1600 m” [Chile], collected by W. Schröder, 20.01.1933.

**Paratypes:** ZSM 54/1933/1-4, 1 male, 3 females, “Los Queñes, Curicó, 1500-1600 m”, collected by W. Schröder, 20.01.1933; ZSM 55/1933, female, “Rio Claro-Tal, Kord. von Santiago, 1400 m” [Chile], collected by W. Schröder, 31.01.1933; ZSM 56/1933, male, “Potrero Grande, Kord. v. Santiago, 2200 m (?)” [Chile], collected by W. Schröder, 25.02.1933; ZSM 57/1933, subadult female, “Rio San Francisco, Kord. v. Sant., 1600 m” [Chile], collected by W. Schröder, 27.12.1930.

**Present name:** *Liolaemus schroederi* Müller & Hellmich, 1938.

***Liolaemus tenuis punctatissimus*  
Müller & Hellmich, 1933**

Zool. Anz., 104(11/12): 307

**Syntypes:** ZSM 213/1931/1-2 (originally ZSM 213/1931/a-b), 1 male, 1 female, “Park von Lota” [Chile], collected by W. Goetsch, 05.01.1931.

**Remarks:** The ZSM houses 12 additional specimens which are indicated as “paratypes” on their jar labels: ZSM 255/1931/1-2, 2 adults, same data as holotype but collected by W. Hellmich; ZSM 256/1931/1-2, 3 adults, same data as holotype but collected by W. Hellmich & W. Goetsch; ZSM 257/1931/1-7, 7 adults, “Concepción, Chile”, collected by Henkel, 1931.

**Present name:** Regarded as a junior synonym of *Liolaemus tenuis* (Duméril & Bibron, 1837) by Núñez & Jaksic (1992).

***Liolaemus variegatus* Laurent, 1984**

Acta Zool. Lilloana 37(2): 273

**Holotype:** ZSM 253/1982, male, “Tiraque (3100 m), Dep. Cochabamba, Bolivia”, collected by R. Zischka, 26.02.1950.

**Paratypes:** ZSM 255/1982, female, same locality as holotype, collected by R. Zischka, 26.07.1954 (indicated as allotype in the original description); ZSM 254/1982/1-15, 4 males, 5 females, 6 juveniles (given as “ZSMH 254/1982, 4 males, 4 females, 1 juvenile” and “ZSMH 254/1982, 1 female” in the original description), “Tiraque (3000-3300 m), Dep. Cochabamba, Bolivia”, collected by R. Zischka, 01.1963 (original description), between 01.01.1949 and 01.02.1951 (individually attached labels); ZSM 256/1982, male, “Laguna de Cacas, 90 km de Cochabamba”, collector not indicated on jar label, 09.10.1953; ZSM 257/1982/1-7, 3 males, 3 females, 1 juvenile,

“Cochabamba (1800-2000 m), Bolivia” (original description), collected by R. Zischka, 26.07.1954.

**Remarks:** Two specimens (male, female) of ZSM 257/1982 (originally 9 specimens) donated to FML according to the original description (= FML 01210). We were unable to find the unnumbered paratype mentioned in the original description (1 male, “Tunari [4000 m], Dep. Cochabamba, Bolivia”, collector unknown, 10.-12.1948).

***Liolaemus walkeri* Shreve, 1938**

J. Washington Acad. Sci., 28(9): 404

**Paratypes:** ZSM 10/1952/1-2 (originally from MCZ series 43770-9), male, female, “Lloellapampa, circa 10,000 ft., Dept. Junin, Peru”, collected by W. F. Walker, 20.06.-03.07.1936.

***Lophyrus albomaxillaris* Spix, 1825**

Animal. Nova Spec. Nov. Lacert.: 11

**Paralectotype:** ZSM 501/0 (lost), “Habitat haud agilis super herbas in sylvis Rio de Janeiro et Parae” [Brazil, probably city of Rio de Janeiro (erroneous) and Belém (01°26'S, 48°29'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation (RMNH 3058) by Hoogmoed & Gruber (1983).

**Present name:** *Enyalius catenatus* (Wied, 1821) according to Hoogmoed & Gruber (1983).

***Lophyrus aureonitens* Spix, 1825**

Animal. Nova Spec. Nov. Lacert.: 12

**Holotype:** ZSM 113/0 (lost), juvenile, “Reperitur quietibus super herbas in locis humidis fluminis Amazonum” [Brazil, Rio Amazonas] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Uranoscodon superciliosus* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

***Lophyrus margaritaceus* Spix, 1825**

Animal. Nova Spec. Nov. Lacert.: 10

**Lectotype:** ZSM 2743/0/1 (ZSMH 2743/0 A in Hoogmoed & Gruber 1983), male, “Habitat in sylvis Bahiae et Solimoëns” [Brazil, former province of Bahia, part of the present state of Bahia and Rio Solimões (latter most probably in error)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 2743/0/2 (ZSMH 2743/0 B in



Hoogmoed & Gruber 1983) male, same data as lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983); additional paralectotype: RMNH 3061/0.

**Present name:** *Enyalius catenatus* (Wied, 1821) according to Hoogmoed & Gruber (1983).

#### *Lophyrus ochrocollaris* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 10

**Paralectotype(s):** ZSM 747/20 (lost), “Vitam degit in sylvis fluminis Amazonum” [Brazil, Rio Amazonas] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation (RMNH 2899) by Hoogmoed & Gruber (1983).

**Present name:** *Plica umbra ochrocollaris* (Spix, 1825) according to Hoogmoed & Gruber (1983).

#### *Lophyrus Panthera* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 11

**Holotype?:** ZSM 746/20 (lost), juvenile, “Habitat in sylvis ad pagum Ecgá” [Brazil, near Tefé (03°21'S, 64°42'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Plica plica* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

#### *Lophyrus rhombifer* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 9

**Paralectotype:** ZSM 110/0 (lost), probably female, “Habitat supra ramos in sylvis humidis fluminis Solimoëns” [Brazil, Rio Solimões (erroneous)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation (RMNH 2911) by Hoogmoed & Gruber (1983).

**Present name:** *Enyalius catenatus* (Wied, 1821) according to Hoogmoed & Gruber (1983).

#### *Lophyrus Xiphosurus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 9

**Lectotype:** ZSM 3189/0/2 (ZSMH 3189/0 B in Hoogmoed & Gruber 1983), male, “Reperitur supra ramos in sylvis tenebrosis fluminis Solimoëns” [Brazil, Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and

Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 3189/0/1 (ZSMH 3189/0 A in Hoogmoed & Gruber 1983), male, same data as lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983). Additional paralectotype: RMNH 2915.

**Present name:** *Uranoscodon superciliosus* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

#### *Phenacosaurus paramoensis* Hellmich, 1949

Aquarien und Terrarienzeitschrift, 2(6): 105

**Holotype:** ZSM 118/1937, female, “Paramo de Sumapaz, 3750 m” [Colombia], collected by W. Hellmich, 12.03.1937.

**Present name:** *Phenacosaurus heterodermus* (Duméril, 1851) fide Peters & Donoso-Barros (1986).

#### *Phrynosaura werneri* Müller, 1928

Zool. Anz. 77(3/6): 64

**Holotype:** ZSM 2/1928, male, no collection data according to the original description.

**Present name:** Synonym of *Liolaemus anomalus anomalus* Koslowsky, 1896 (see Cei 1986).

#### *Plica nigra* Mägdefrau, 1991

Spixiana 14(1): 229

**Paratypes:** ZSM 97/1990/1-2 (given as ZSM 97/1990a-b in the original description), 2 specimens (one additional specimen mentioned in the original description lost), “Guaiquinima Tepui (Venezuela), 63°33'40” W, 5°45'50” N, 780 m NN”, collected by H. Mägdefrau, 02.1990.

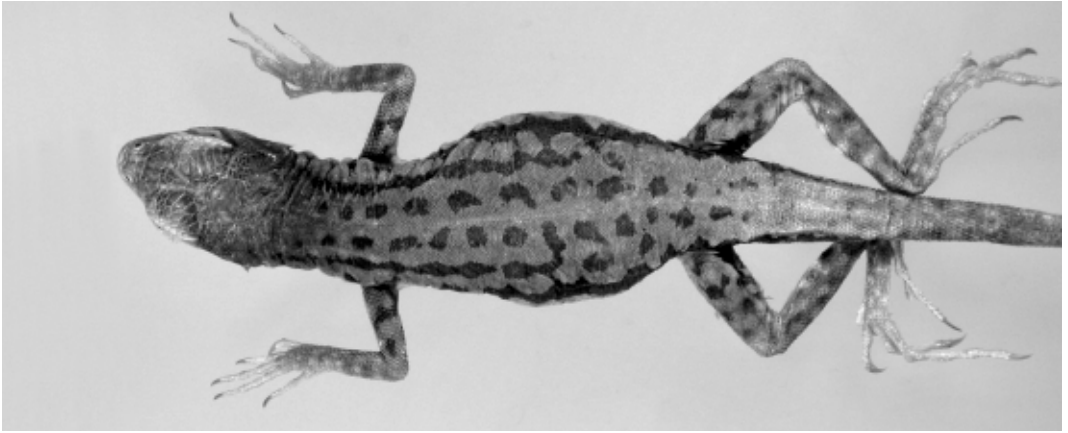
**Remarks:** The original description gives no catalogue number for the holotype. According to Mägdefrau (pers. comm.) the holotype is EBRG-2519. This individual was mentioned as a paratype in the original description. One additional paratype in SMNS. One of the three paratypes mentioned in the original description to be in the ZSM collection was kept alive and subsequently lost (Mägdefrau pers. comm.).

**Present name:** *Plica nigra* is a junior synonym of *Plica lumaria* Donnelly & Myers, 1991, which was published three days before the publication date of *P. nigra* (01.07.1991) (Mägdefrau pers. comm.).

#### *Polychrus acutirostris* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 15

**Holotype or syntypes:** ZSM 490/0 (lost), number of specimens unknown, “Reperi in sylvis Bahiae in terra lente ingredientem” [Brazil, former province



**Fig. 11.** Holotype of the small iguanid *Tropidurus theresiae* Steindachner, 1901 (ZSM 141/1926), currently *Microlophus theresiae*, collected by Therese Prinzessin von Bayern, during her expedition to South America.

of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

#### *Tropidurus continentalis* Müller, 1924

Mitt. Zool. Mus. Berlin 11 (1): 82

**Paratype:** ZSM 262/1925 (catalogue number not given in the original description), 1 specimen, "Machalilla, Ecuador", collected by Paessler, no date.

**Remarks:** Holotype in ZMB according to the original description.

**Present name:** Junior synonym of *Microlophus occipitalis* (Peters, 1871), according to Peters & Donoso-Barros (1986) and Frost et al. (2001).

#### *Tropidurus theresiae* Steindachner, 1901

Anz. Akad. Wiss. Wien, 38: 195 [abstract only]; Denkschr. K. K. Akad. Wiss., Math.-Naturwiss. Cl., Wien, 72: 100, pl. II, figs. 2, 2a [comprehensive description]

**Holotype:** ZSM 141/1926, adult, "Ancno bei Lima" (original description) "Ancón, Lima" (label data) [= Ancón near Lima, Peru], collected by Therese Prinzessin von Bayern, no date.

**Remarks:** The holotype was presumed to be lost by Dixon & Wright (1975: 12). However, it is still extant in the ZSM collection (not in NMW as supposed by Mertens 1956) and in a good state of preservation.

**Present name:** *Microlophus theresiae* according to Dixon & Wright (1975) and Harvey & Gutberlet (2000).

### Lacertidae Opperl, 1811

#### *Eremias velox suphani* Başoğlu & Hellmich, 1968

Ege Üniv. Fen Fak. İlimi Rap. Ser. 67: 4

**Paratypes:** ZSM 93/1957/1-4, 2 males, 1 female, 1 juvenile, "Ahlat", collected by M. Başoğlu & W. Hellmich, 09.-11.06.1957; ZSM 94/1957/1-5, 1 male, 2 females, 2 juveniles, "Van", collected by H. Kulzer, 06.05.1912; ZSM 95/1957/1-5, 3 males, 2 females, "Van", collected by H. Kulzer, 28.04.-02.05.1912; ZSM 96/1957/1-11, 3 males, 6 females, 2 subadults, "Van", collected by H. Kulzer, 10.05.1912; ZSM 97/1957/1-2, 1 female, 1 juvenile, "Van", collected by H. Kulzer, 16.04.1912.

**Remarks:** Holotype (ZDEU 31/1957) and nine additional paratypes in ZDEU according to the original description. Three paratypes of ZSM 96/1957 (1 male, 1 female, 1 subadult) now in ZFMK (ZFMK 26249-51) (Böhme & Bischoff 1984).

**Present name:** *Eremias suphani* Başoğlu & Hellmich, 1968 according to Bischoff & Böhme (1980).

#### *Lacerta anatolica aegaea* Eiselt & Schmidler, 1986

Spixiana 9(3): 312

**Holotype:** ZSM 50/1983, male, "Samsundağ S Davutlar, Vil. Aydin (TR), ca. 100 m" [Turkey], collected by J. F. & H. Schmidler, 13.06.1982.

**Paratypes:** ZSM 51/1983/1-2, male, female, "Samsundağ", same collection data as the holotype according to the jar label.

**Remarks:** Two additional paratypes in ZMA and ZMB according to the original description.

**Present name:** *Anatololacerta anatolica aegaea* (Eiselt & Schmidler, 1986) according to Arnold et al. (2007).

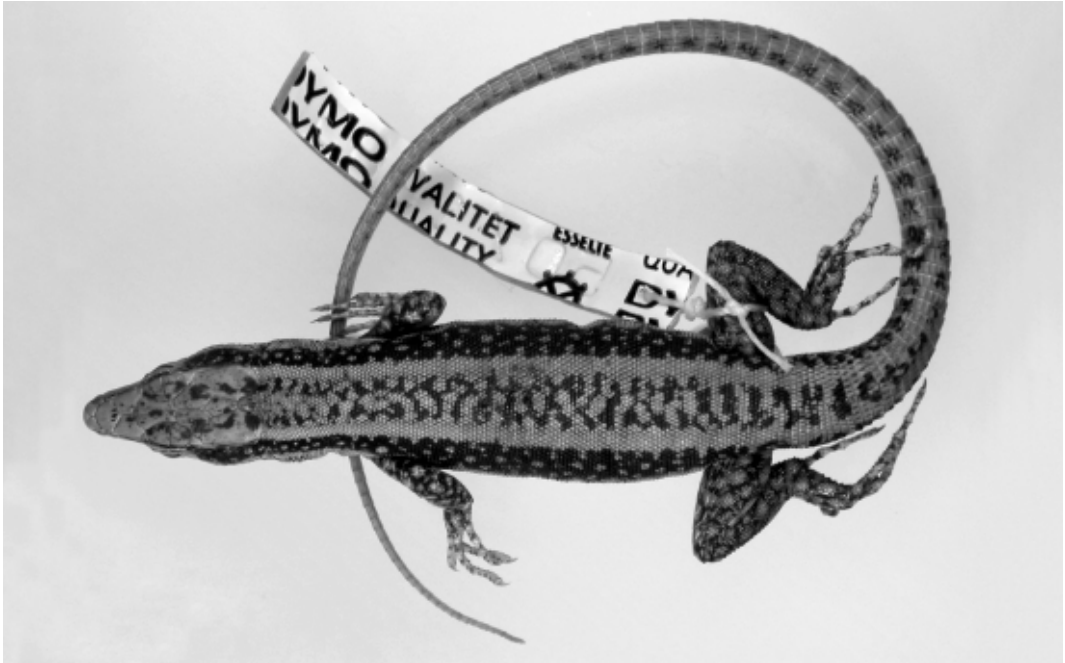


Fig. 12. Holotype of *Lacerta anatolica aegaea* Eiselt & Schmidtler, 1986 (ZSM 50/1983), currently *Anatololacerta anatolica aegaea*.

***Lacerta bendimahiensis* Schmidtler, Eiselt & Darevsky, 1994**

*Salamandra* 30(1): 62

**Holotype:** ZSM 169/1993, female, “Bendimahi-Wasserfälle, 9 km N Muradiye, 1850 m (Prov. Van

Türkei)”, collected by J. Eiselt & J. F. Schmidtler 09.-11.06.1990.

**Paratypes:** ZSM 2923-2924/2005 (originally CS 5773, CS 5776), 2 females, same data as holotype; ZSM 2925-2927/2005 (originally CS 217/89, 219-220/89), 1 female, 2 juveniles, same locality as holotype, but



Fig. 13. Holotype of *Lacerta bendimahiensis* Schmidtler, Eiselt & Darevsky, 1994 (ZSM 169/1993), currently *Darevskia bendimahiensis*, a parthenogenetic lacertid species from eastern Turkey.

collected by J. F. & H. Schmidler, 13.08.1989; ZSM 2928/2005 (originally CS 91/1), female, "Lavafelder bei Uzunyol, ca. 60 km NO Muradiye (Prov. Van)", collected by J. F. & B. Schmidler, 24.07.1991.

**Remarks:** A parthenogenetic species. One of the seven paratypes listed in the original description to be housed in Schmidler's private collection has been exchanged by J. F. Schmidler (CS 217/89). Five additional paratypes in NMB, NMW, and ZFMK according to the original description.

**Present name:** *Darevskia bendimahiensis* (Schmidler, Eiselt & Darevsky, 1994) fide Arribas (1996a).

#### *Lacerta cappadocica muhtari* Eiselt, 1979

Annln. Nat. Hist. Mus. Wien 82: 413

**Paratypes:** ZSM 249/1977/1-2, 1 male, 1 female, "Vil. Urfa: 10 km SW Urfa, 540 m", collected by J. J. & J. F. Schmidler, 06.1977; ZSM 250/1977/1-3, 3 females, "Vil. Mardin: Aşağ-Konak, 50 km SE Diyarbakır, an der Vilayet-Grenze", collected by J. J. & J. F. Schmidler, 28.04.1977; ZSM 251/1977/1-4, 2 males, 1 female, 1 juvenile, "Vil. Mardin: 15-40 km NW Mardin", collected by J. J. & J. F. Schmidler, 04.1977; ZSM 70/1957/1-3, 3 females, "Bitlis", collected by M. Başoğlu & W. Hellmich, 13.06./ 21.06.1957; ZSM 69/1957, juvenile, "Nemrut" [Bitlis prov., Turkey], collected by M. Başoğlu & W. Hellmich, 13.06.1957; ZSM 19/1968/1-4, 4 males, "Vil. Van: Müküs (Möks), 30 km SSW der Insel Aktamar", collected by H. Kulzer, 05.-06.1912.

**Remarks:** Holotype NMW 23208:2; numerous additional paratypes in BMNH, CAS, FMNH, NMW, SMF, ZDEU, ZFMK, ZMH according to the original description.

**Present name:** *Apathya cappadocica muhtari* (Eiselt, 1979) according to Arnold et al. (2007).

#### *Lacerta cappadocica schmidlerorum* Eiselt, 1979

Annln. Nat. Hist. Mus. Wien 82: 415

**Holotype:** ZSM 252/1977, male, "Vil. Diyarbakır: 10 km S Diyarbakır, Abzweigung Ovabağ, Felsental" [Turkey], collected by J. J. & J. F. Schmidler, 25.04.1977.

**Paratypes:** ZSM 253/1977/1-2, 2 males, same data as holotype; ZSM 254/1977, female, "Vil. Diyarbakır: 20 km S Diyarbakır", collected by J. J. & J. F. Schmidler, 28.04.1977; ZSM 255/1977, juvenile female, "Vil. Diyarbakır: 40 km W Diyarbakır", collected by J. J. & J. F. Schmidler, 27.04.1977; ZSM 256/1977, female, "Vil. Urfa: 20 km W Viranşehir", collected by J. J. & J. F. Schmidler, 11.04.1977.

**Remarks:** Five additional paratypes in NMW and ZFMK according to the original description.

**Present name:** *Apathya cappadocica schmidlerorum*

(Eiselt, 1979) according to Arnold et al. (2007).

#### *Lacerta cyanisparsa* Schmidler & Bischoff, 1999

Salamandra 35(3): 132

**Holotype:** ZSM 12/1999, adult male, "Syrien: Prov. Idlib, Al Bara, südl. Ariha (650 m)", collected by J. F. Schmidler & W. Bischoff, 18.05.1995.

**Paratypes:** ZSM 3940-3942/2005 (originally CS 95 Lsp 2-4), 2 males, 1 female, same data as holotype; ZSM 3943/2005 (originally CS 94 Lcy 1), male, same locality as holotype, but collected by H. & J. F. Schmidler, 03.04.1994; ZSM 3944/2005 (originally CS 97 Lcy 1), male, "Prov. Gaziantep, Kartal Dağı, 23 km E Nurdağı (1050 m NN)" [Turkey], collected by Schmidler, Riegler & Schultschik, 02.05.1997; ZSM 3945-3947/2005 (originally CS 97 Lcy 2-4), 2 males, 1 female, "Prov. Gaziantep, 20 km W Gaziantep (1000 m NN)", collected by Schmidler, Riegler & Schultschik, 01.05.1997; ZSM 3948-3949/2005 (originally CS 98 L 6+7), 1 male, 1 female, "Prov. Kahramanmaraş: 1 km NW Karabıyıklı (850 m NN)", collected by H. & J. F. Schmidler, 12.04.1998; ZSM 3950/2005 (originally CS 98 L 5), male, "Prov. Kahramanmaraş: 11 km NO Pazarcık (900 m NN)", collected by H. & J.F Schmidler, 14.04.1998; ZSM 3951/2005 (originally CS 98 L 8), male, "Prov. Gaziantep: 20 km NW Gaziantep (1050 m NN)", collected by H. & J. F. Schmidler, 11.04.1998; ZSM 3952-3955/2005 (originally CS 98 L 1-4), 3 males, 1 female, "Prov. Gaziantep: 4 km O Sakcagöz (1050 m NN)", collected by H. & J. F. Schmidler, 11.04.1998; ZSM 3956-3957/2005 (originally CS 98 L 9+10), 2 females, "Prov. Gaziantep: W Gaziantep", collected by H. & J. F. Schmidler, 04.1998.

**Remarks:** Additional paratypes in CAS, SMF, ZFMK.

**Present name:** *Phoenicolacerta cyanisparsa* (Schmidler & Bischoff, 1999) according to Arnold et al. (2007).

#### *Lacerta danfordi bileki* Eiselt & Schmidler, 1986

Spixiana 9(3): 289-328

**Paratypes:** ZSM 75/1983/1-3, 1 male, 2 females, "Cigri, 10 km S Başmakçı nahe der Grenze zwischen den Vilayets Burdur/Isparta/Afyon", 1300 m (jar label) collected by J. J. & J. F. Schmidler, 06.06.1982; ZSM 76/1983/1-2, male, female, "Çamlidere, SE Isparta", 900 m (jar label), collected by J. J. & J. F. Schmidler, 13.05.1974; ZSM 77/1983/1-4, 3 males, 1 female, "Kovada-See, SE Isparta", 850 m (jar label), collected by J. J. & J. F. Schmidler, 14.05.1974; ZSM 78/1983, female, "Mahmutlar NE Eğirdir", 1100 m (jar label), collected by J. J. & J. F. Schmidler, 17.05.1974; ZSM 79/1983/1-2, male, female, "50 km S Beyşehir (Vil. Antalya)", 1400 m (jar label), col-

lected by J. J. & J. F. Schmidtler, 14.04.1976; ZSM 80/1983, male, "Cevizli", 1200 m (jar label), collected by J. J. & J. F. Schmidtler, 14.04.1976; ZSM 81/1983/1-13, 4 males, 9 females, "Irmasan-Paß", 1300 m (jar label), collected by J. J. & J. F. Schmidtler, 11.05.1974 and 14.04.1976; ZSM 82/1983, juvenile male, "Sertavul-Paß", 1200 m (jar label), collected by J. J. & J. F. Schmidtler, 02.05.1974.

**Remarks:** Holotype (NMW 26759:5) in NMW and 39 additional paratypes in GNM, NMW, SMF and ZDEU according to the original description.

**Present name:** *Anatololacerta danfordi bileki* (Eiselt & Schmidtler, 1986) according to Arnold et al. (2007).

#### *Lacerta erhardi gerakuniae* Müller, 1938

Bl. Aquar.Terrarienk. 3: 39

**Holotype:** ZSM (SLM) 2409 (lost), male, "Insel Gerakúnia, nordwestl. von Erimomilos, Kykladen", collected by H. Schweizer, 05.1935.

**Remarks:** Four additional specimens (2 males, 2 females) without catalogue numbers are mentioned in the original description. The card index does not mention any material of this taxon. As we were unable to find any specimens in the ZSM collection we regard the whole type series as probably lost.

**Present name:** *Podarcis milensis gerakuniae* (Müller, 1938), see Klemmer (1957, Beutler & Heckes 1986).

#### *Lacerta erhardi ruthveni* Werner, 1930

Occ. Pap. Mus. Zool. Univ. Michigan, 211: p. 13, pl. 4, figs. 18-22

**Paratype:** ZSM (SLM) 1710 (lost), adult, "Skopelos, Griechenland" (card index), collected by F. Werner, 07.-09.05.1927.

**Present name:** *Podarcis erhardii ruthveni* (Werner, 1930), see Gruber (1986).

#### *Lacerta galloti palmae* Boettger & Müller, 1914

Ann. Mag. Nat. Hist. 14: 71

**Holotype:** ZSM 241/1913 (lost), "Island of Palma", collected by C. R. Boettger, 1913.

**Paratypes:** ZSM 340/1976/1, male, "Los Llanos, Palma"; ZSM 340/1976/2, male, "Sta. Cruz de la Palma, Palma"; ZSM 340/1976/3, female, "Fazacorte, Palma"; all collected by C.R. Boettger, 1913.

**Remarks:** We regard the above mentioned specimens, which appear to be collected with the holotype, as paratypes since additional material without catalogue numbers is mentioned in the original description. The largest male of this series (ZSM 340/1976/2) has exactly the same snout-vent length as the largest male mentioned by Boettger & Müller.

**Present name:** *Gallotia galloti palmae* (Boettger & Müller, 1914), see Molina-Borja & Bischoff (1998).

#### *Lacerta kulzeri* Müller & Wettstein, 1932

Zool. Anz. 98(7/8): 219

**Holotype:** ZSM 10/1931 (given as Nr. 10, 1931 in the original description) (lost), female, "Zedernwald bei Bharré, Libanon", collected by H. Kulzer, 06. 1931.

**Remarks:** Two additional paratypes in NMW (Tiedemann et al. 1994).

**Present name:** *Phoenicolacerta kulzeri* (Müller & Wettstein, 1932) according to Arnold et al. (2007).

#### *Lacerta lilfordi affinis* Müller, 1927

Zool. Anz. 73(11/12): 269

**Holotype:** ZSM (SLM) 1547 (lost), male, "Insel Guardia bei Ibiza" [= Isla Malvin Pequeño, Balearic Islands, Spain], collected by Scholze & Pötzschke, 1927.

**Paratypes:** ZSM (SLM) 2217/1-3, 1 male, 2 females, "Insel Malvin pequeño, östl. v. Ibiza, Pityusen", collected by Z. Kamer, 1927 (jar label).

**Present name:** *Podarcis pityusensis schreitmuelleri* (Müller, 1927), see Salvador (1986a).

#### *Lacerta lilfordi brauni* Müller, 1927

Zool. Anz. 73(11/12): 261

**Holotype:** ZSM (SLM) 1539 (probably lost), male, "Isla Colon bei Menorca" [= Isla Colom, Balearic Islands, Spain], collected by Scholze & Pötzschke, 1927.

**Paratype (?):** ZSM 539/1998, male, same data as holotype.

**Remarks:** Only the holotype, which was probably destroyed during World War II, is mentioned and described in the original description. However, Müller had apparently more specimens at hand, as he gives information on the variation of this taxon. We found a previously uncatalogued male which partly fits the description of the holotype (snout-vent length, regenerated tail, number of femoral pores and number of ventrals) which, however, has a shorter tail length and also differs slightly by other characters from the type description. Nevertheless we can not fully exclude that this individual is actually the holotype.

**Present name:** *Podarcis lilfordi brauni* (Müller, 1927), see Salvador (1986b).

***Lacerta lilfordi calae saladae* Müller, 1928**

Bl. Aquar. Terrarienkde. 39: 387

**Holotype:** Uncatalogued specimen (lost), “Isla der Cala salada ... Westküste von Ibiza” [Balearic Islands, Spain], no further data available.

**Paratypes:** uncatalogued (lost), probably same data as the holotype.

**Remarks:** No catalogue number of the holotype and possible additional type material is mentioned in the original description and the card index. Müller apparently based his subspecies on more than one specimen, since he gave information on the variation of this taxon.

**Present name:** *Podarcis pityusensis calaesaladae* (Müller, 1928), see Salvador (1986a).

***Lacerta lilfordi caldesiana* Müller, 1928**

Bl. Aquar. Terrarienkde. 39: 387

**Holotype:** ZSM (SLM) 2226 (lost), “Insel Caldes, an der Nordküste von Ibiza” [Balearic Islands, Spain], collected by Z. Kamer, 1928 (card index).

**Paratypes:** ZSM (SLM) 2215 (lost), 6 specimens, same data as holotype (card index).

**Present name:** *Podarcis pityusensis pityusensis* (Bosca, 1883) according to Salvador (1986a).

***Lacerta lilfordi conejerae* Müller, 1927**

Zool. Anz. 73(11/12): 264

**Holotype:** ZSM (SLM) 1548 (lost), male, “Insel Conejera nördl. Cabrera” [Balearic Islands, Spain], collected by Dr. Kuliga, 1927.

**Remarks:** Neotype designation (ZFMK 11898) by Salvador (1979). A single paratype in ZFMK (Böhme & Bischoff 1984).

**Present name:** *Podarcis lilfordi conejerae* (Müller, 1927), see Salvador (1986b).

***Lacerta lilfordi esplamadoris* Müller, 1928**

Zool. Anz. 78(11/12): 262

**Holotype:** ZSM (SLM) 1630 (lost), male, “Insel Esplamador, südl. Ibiza, Pithyusen” [Balearic Islands, Spain], collected by Z. Kamer, 06.1928.

**Paratypes:** ZSM (SLM) 1633/1-11, 7 males, 3 females, 1 juvenile, same locality data as holotype, collected by Grün, 15.06.1928.

**Remarks:** The original description gives no information on the exact number of paratypes. Müller mentioned at least 21 specimens of which 15 were males (excluding the holotype): ZSM (SLM) 1633: Exemplar Nr. 9 (male), Nr. 12 (female) and Nr. 21 (juvenile). So it is obvious that the original series 1633 included at least 21 individuals. In contrast, the

card-index lists only seven specimens in ZSM (SLM) 1633. A second ZSM series which was catalogued in 1971 (ZSM 15/1971) contains four individually labeled specimens with exactly the same collection data as ZSM (SLM) 1633. We regard it as probable that these four specimens were accidentally catalogued twice and were originally part of ZSM (SLM) 1633. Consequently, we include them in ZSM (SLM) 1633.

**Present name:** *Podarcis pityusensis formenterae* (Eisentraut, 1928), non *Lacerta lilfordi formenterae* Müller, 1928 (see Salvador 1986a).

***Lacerta lilfordi fahrae* Müller, 1927**

Zool. Anz. 73(11/12): 265

**Holotype:** ZSM (SLM) 1546 (lost), male, “Insel Horadada, nördl. Plana” [Balearic Islands, Spain], collected by A. Fahr, 1927.

**Remarks:** No paratypes mentioned in the original description. Neotype (SMF 26870) designated by Salvador (1979).

**Present name:** *Podarcis lilfordi fahrae* (Müller, 1927), see Salvador (1986b).

***Lacerta lilfordi formenterae* Müller, 1928**

Zool. Anz. 78 (11/12): 266

**Holotype:** ZSM (SLM) 1631 (lost), male, “Insel Formentera, Pithyusen” [Balearic Islands, Spain], collected by Grün, 15.06.1928.

**Paratypes:** ZSM (SLM) 1634 (lost), 8 individuals, including at least two males and one female, same data as holotype (card index).

**Remarks:** The original description gives no information on the exact number of paratypes, Müller mentioned at least 14 specimens. However, ZSM (SLM) 1634 contained only 8 (paratype) individuals, all with the same data as the holotype. We were unable to locate these and the remaining six specimens and regard the whole type series as lost.

**Present name:** Junior synonym of *Lacerta lilfordi formenterae* Eisentraut, 1928; currently *Podarcis pityusensis formenterae* (see Salvador 1986a).

***Lacerta lilfordi frailensis* Müller, 1928**

Bl. Aquar. Terrarienk. 39: 472

**Holotype:** ZSM (SLM) 2120 (card index) (lost), adult, “Felseninselchen Fraile, westlich von der Pityusen-Insel Esparta” [Balearic Island, Spain], collected by Grün, 11.1928.

**Paratype:** Uncatalogued (lost), 1 specimen, same data as holotype.

**Remarks:** Two further paratypes, one of them housed in ZSM, are mentioned in the original de-

scription. However, this specimen is not listed in the card index and we were unable to find it in the collection.

**Present name:** *Podarcis pityusensis frailensis* (Eisen-traut, 1928). *L. l. frailensis* Müller, 1928 is a junior synonym of *L. l. frailensis* Eisen-traut, 1928, which was published one month earlier.

***Lacerta lilfordi grossae* Müller, 1929**

Bl. Aquar. Terrarienk. 40 (17): 295

**Holotype:** ZSM (SLM) 1668 (lost), male, “La Grossa (Sta Eulalia); östl. von Sta. Eulalia auf Ibiza, Pityusen” [Balearic Islands, Spain], collected by Z. Kamer, 03.08.1929.

**Paratype:** ZSM (SLM) 2126 (lost), 1 specimen, same locality data and collector as holotype but collected 07.1929 (card index).

**Remarks:** In addition to ZSM (SLM) 1668, the card index indicates the individual “Nr. 2126” as type. This is certainly incorrect as Müller explicitly designated “Nr. 1668” as (holo-)type. The original description gives no information on the exact number of paratypes, but Müller had apparently a large series at hand. However, no additional individuals are listed in the card index and we were unable to locate any specimens in the collection.

**Present name:** *Podarcis pityusensis redonae* (Eisen-traut, 1928), see Salvador (1986a).

***Lacerta lilfordi grueni* Müller, 1928**

Zool. Anz. 78 (11/12): 270

**Holotype:** ZSM (SLM) 1632 (lost), male, “Isla dos Trocados bei Espalador, Pityusen” [Balearic Islands, Spain], collected by Grün, 15.06.1928.

**Paratypes:** ZSM 16/1971/1-2 (originally ZSM [SLM] 1635), 2 females, same data as holotype; ZSM (SLM) 2245 (lost), 11 specimens, same data as holotype.

**Remarks:** It appears that the remaining two specimens of ZSM (SLM) 1635 (originally 8 individuals according to the card index) were accidentally catalogued twice in 1971 under the catalogue number ZSM 16/1971/1-2. The original description mentioned the following specimens of ZSM (SLM) 1635: “Exemplar Nr. 9” (male), “Nr. 14” (male), “Nr. 16” (female), “Nr. 18” (female). However, the individually labeled specimens of ZSM 16/1971/1-2 includes none of them. Müller stated, that he had seen a total of 22 specimens. However, the card index indicates only the above listed 20 specimens.

**Present name:** *Podarcis pityusensis formenterae* (Eisen-traut, 1928), see Salvador (1986a).

***Lacerta lilfordi hedwig-kamerae* Müller, 1927**

Zool. Anz. 74 (7/10): 185

**Holotype:** ZSM (SLM) 1550 (given as “Nr. 155” in the original description) (lost), male, “Insel Margarida (Margarita), nordw. Santa Inés auf Ibiza, Pityusen” [Balearic Islands, Spain], collected by H. Kamer, 1927.

**Paratypes:** ZSM (SLM) 2142 (lost), 5 specimens, same data as holotype (card index).

**Present name:** *Podarcis pityusensis hedwigkamerae* (Müller, 1927), see Salvador (1986a).

***Lacerta lilfordi jordansi* Müller, 1927**

Zool. Anz. 73 (11/12): 263

**Holotype:** ZSM (SLM) 1541 (lost), male, “Insel La Guardia, südl. von Salinas, Mallorca” [Balearic Islands, Spain], collected by A. v. Jordans, 1927.

**Paratypes:** ZSM (SLM) 2270/1-11, 11 specimens, “Insel Guardia, nahe Mallorca”, collected by A. v. Jordans, 05.05.1927 (jar label); ZSM (SLM) 2276 (lost), 6 specimens, “Insel Guardia, südl. Mallorca”, collected by A. v. Jordans, 05.05.1927 (jar label).

**Remarks:** In addition to the holotype 24 specimens are mentioned in the original description, of which 13 are in ZFMK (Böhme & Bischoff 1984). However, the card index mentions six additional paratypes (Nr. 2276) which are apparently lost.

**Present name:** *Podarcis lilfordi jordansi* (Müller, 1927), see Salvador (1986b).

***Lacerta lilfordi kochi* Müller, 1927**

Zool. Anz. 73 (11/12): 266

**Holotype:** ZSM (SLM) 1542 (lost), male, “Conichera (Cunillera), westl. Ibiza” [Balearic Islands, Spain], collected by C. Koch, 1927.

**Paratypes:** ZSM (SLM) 2213/1-7, 4 males, 3 females, same collection data as the holotype.

**Remarks:** No additional type material is mentioned in the original description, but Müller had apparently more specimens at hand, as he gives informations on the variation of this taxon. We regard ZSM (SLM) 2213/1-7 as paratypes, as the series bears the same collection data as the holotype.

**Present name:** *Podarcis pityusensis carlkochi* (Mertens & Müller, 1940), see Salvador (1986a).

***Lacerta lilfordi kuligae* Müller, 1927**

Zool. Anz. 73 (11/12): 263

**Holotype:** ZSM (SLM) 1543 (lost), male, “Insel Cabrera” [Balearic Islands, Spain], collected by Kuliga, 1927.



**Fig. 14.** Holotype of *Lacerta lilfordi rodriguezi* Müller, 1927 (ZSM [SLM] 1540), currently *Podarcis lilfordi rodriguezi*. This insular form from a tiny island in the gulf of Mahón (Menorca) is presumed to be extinct.

**Paratypes:** ZSM (SLM) 2279 (lost), 4 specimens, same locality data as holotype, collected by Kuliga & Koch, 1927.

**Remarks:** Neotype (SMF 12513) designated by Salvador (1979). No additional type material is mentioned in the original description, but according to the card index the type series originally contained the above mentioned four paratypes, which were destroyed during World War II (see also Salvador 1979).

**Present name:** *Podarcis lilfordi kuligae* (Müller, 1927), see Salvador (1986b).

#### *Lacerta lilfordi plana* Müller, 1927

Zool. Anz. 73(11/12): 265

**Holotype:** ZSM (SLM) 1549 (lost), male, “Insel Plana, nördl. von Conejera” [Balearic Islands, Spain], no further collection data.

**Remarks:** Neotype (AS 10403) designated by Salvador (1979). Additional type material is neither mentioned in the original description, nor listed in the card index. However, Müller apparently had more specimens at hand, as he gives information on the variation. We were unable to find any of these specimens in the ZSM collection and regard them as lost.

**Present name:** *Podarcis lilfordi plana* (Müller, 1927), see Salvador (1986b).

#### *Lacerta lilfordi rodriguezi* Müller, 1927

Zool. Anz. 73 (11/12): 261

**Holotype:** ZSM (SLM) 1540, female, “Isla das Ratas” [Balearic Islands, Spain], collected by Rodriguez & Femenias, 1903.

**Paratypes:** ZSM (SLM) 2269 (lost), 2 specimens, same locality data as holotype, but unknown collector, 1927.

**Remarks:** No additional type material is mentioned in the original description. However, the card-index indicates ZSM (SLM) 2269 as paratypes. The taxon is presumed to be extinct by Honegger (1981).

**Present name:** *Podarcis lilfordi rodriguezi* (Müller, 1927), see Salvador (1986b).

#### *Lacerta lilfordi schreitmuelleri* Müller, 1927

Zool. Anz. 73(11/12): 268

**Holotype:** ZSM (SLM) 1544 (lost), male, “Insel Malvin bei Ibiza” [Balearic Islands, Spain], donated by W. Schreitmüller (original description), resp. purchased from Scholze & Pötzschke (card index), 1927.

**Paratypes:** ZSM (SLM) 2209 (lost), 4 specimens, same data as holotype.

**Remarks:** No additional type material is mentioned in the original description, but Müller had apparently more specimens at hand, as he thanks Schreitmüller for the “specimens”. There is some additional material from the type locality, but only ZSM (SLM) 2209 was already catalogued in 1927 and we therefore consider these specimens as paratypes.

**Present name:** *Podarcis pityusensis schreitmuelleri* (Müller, 1927), see Salvador (1986a).

#### *Lacerta lilfordi tagomagensis* Müller, 1927

Zool. Anz. 73(11/12): 267

**Holotype:** ZSM (SLM) 1545, male, “Insel Tagomago, östl. von Ibiza” [Balearic Islands, Spain], collected by Scholze & Pötzschke, 1927.

**Remarks:** No additional type material mentioned in the original description.

**Present name:** *Podarcis pityusensis tagomagensis* (Müller, 1927), see Salvador (1986a).



***Lacerta lilfordi vedrae* Müller, 1927**

Zool. Anz. 74(7/10): 190

**Holotype:** ZSM (SLM) 1551 (lost), male, "Insel Vedra, westlich der Südwestspitze von Ibiza (bei Cabo Jueu), Pithyusen" [Balearic Islands, Spain], collected by Z. & H. Kamer, 1927.

**Paratypes:** ZSM (SLM) 2152 (lost), 5 specimens, same data as holotype (card index).

**Remarks:** Only four paratypes mentioned in the original description, whereas the card index lists five individuals.

**Present name:** *Podarcis pityusensis vedrae* (Müller, 1927), see Salvador (1986a).

***Lacerta lilfordi vedranellensis* Müller, 1928**

Bl. Aquar. Terrarienk. 39: 387

**Holotype:** ZSM (SLM) 2149 (lost), "Insel Vedranell an der Westküste von Ibiza" [Balearic Islands, Spain] collected by Zeno Kamer, 08.09.1928 (card index).

**Paratypes:** ZSM (SLM) 2148 (lost), 6 specimens, same data as holotype.

**Present name:** *Podarcis pityusensis vedrae* (Müller, 1927), see Salvador (1986a).

***Lacerta lilfordi zenonis* Müller, 1928**

Bl. Aquar. Terrarienk. 39: 388

**Holotype:** uncatalogued (lost), "Escollo von Esparta an der Westküste von Ibiza" [Balearic Islands, Spain], no further collection data.

**Remarks:** No additional type material is mentioned in the original description and the card index, but Müller had apparently more specimens at hand, as he gives information on the variation of this taxon. We were unable to find any specimens with the locality data of the holotype in the ZSM collection and regard the entire type material as lost.

**Present name:** *Podarcis pityusensis kameriana* (Mertens, 1927), see Salvador (1986a).

***Lacerta major hans-schweizeri* Müller, 1935**

Zool. Anz. 109(9/10): 236

**Syntypes:** ZSM (SLM) 2010 (lost), 1 male, 2 females, "Insel Milos, Kykladen" [Greece], collected by H. Schweizer, 05.1934; ZSM (SLM) 2011 (lost), 2 juveniles, no collection data (original description).

**Remarks:** According to the original description (Tab. p. 235) two syntypes of *Lacerta viridis* var. *fusca* Bedriaga, 1881 may be also syntypes of *Lacerta major hans-schweizeri*, as well as three additional individuals without numbering.

**Present name:** *Lacerta trilineata hansschweizeri* Müller, 1935 (fide Mertens & Wermuth 1960, Nettmann & Rykena 1984).

***Lacerta monticola cyreni* Müller & Hellmich, 1937**

Zool. Anz. 117: 67

**Holotype:** ZSM (SLM) 2329a (lost), male, "Sierra de Guadarrama, Puerto de Navacerrada" [Spain], collected by W. Hellmich, 10.06.1935.

**Paratypes:** ZSM (SLM) 2329b (lost), one female, same data as holotype; ZSM (SLM) 2330 (lost), 8 males; ZSM (SLM) 2331 (lost), 4 males, 7 females; ZSM (SLM) 2332 (lost), 2 males, 7 females; ZSM (SLM) 2334 (lost), 7 juveniles; all with the same data as the holotype but collected 08.-10.06.1935; ZSM (SLM) 2333 (lost), 10 males, same data as holotype but collected by 16.06.1935; ZSM (SLM) 2335 (lost), 2 juveniles, "Peñalara, 2350 m", collected by W. Hellmich, 09.06.1935; ZSM (SLM) 2336 (lost), male, "La Mira, Sierra de Gredos", collected by W. Hellmich, 19.05.1935; ZSM (SLM) 2337 (lost), male, "Las Cinco Lagunas, Sierra de Gredos", collected by W. Hellmich, 05.06.1935; ZSM (SLM) 2338 (lost), 1 male, 2 females and ZSM (SLM) 2339 (lost), 3 females, 1 juvenile, "Laguna Grande de Gredos, Sierra de Gredos", collected by W. Hellmich, 06.06.1935; ZSM (SLM) 1697 (lost), 1 male, 1 female, "Puerto de Navacerrada, Sierra de Guadarrama", collected by O. Cyren, 15.05.1925.

**Remarks:** Seven additional paratypes without catalogue numbers are listed in the original description. **Present name:** *Iberolacerta cyreni cyreni* (specimens from Sierra de Guadarrama) and *Iberolacerta cyreni castiliana* Arribas, 1996 (specimens from Sierra de Gredos), see Arribas (1996b, 1999).

***Lacerta oertzeni budaki* Eiselt & Schmidtler, 1986**

Spixiana 9(3): 316

**Paratypes:** ZSM 54/1983, female, "Palatmutçuk, E Karacasu" [Aydın prov., Turkey], 800 m (jar label), collected by J. F. & H. Schmidtler, 04.06.1982; ZSM 55/1983/1-2, 2 females, "3 u. 5 km NE Tavas", 1100-1200 m (jar label), collected by J. F. & H. Schmidtler, 02.-03.06.1982; ZSM 56/1983/1-2, 2 males, "Sinekçibel-Paß, N Kaşaba", 1100 m (jar label), collected by J. F. & J. J. Schmidtler, 03.06.1982; ZSM 57/1983, female, "Kurd-Tal, 15 km SE Tefenni", 1250 m (jar label), collected by J. F. & H. Schmidtler, 09.06.1982.

**Remarks:** Holotype (NMW 26751) and 44 additional paratypes in BMNH, GNM, NMW and ZDEU according to the original description.

**Present name:** *Anatololacerta oertzeni budaki* (Eiselt & Schmidtler, 1986) according to Arnold et al. (2007).

***Lacerta oertzeni ibrahimi* Eiselt & Schmidtler, 1986**

Spixiana 9(3): 322

**Holotype:** ZSM 59/1983, female, “ca. 20 km NW Anamur (Vilayet Mersin)”, collected by J. J. & J. F. Schmidtler, 06.04.1976.

**Paratypes:** ZSM 60/1983, female, “N Alanya”, 1000 m (jar label), collected by J. J. & J. F. Schmidtler, 07.04.1971; ZSM 61/1983/1-3, 1 male, 2 females, same data as holotype; ZSM 62/1983, male, “Dibek, NE Anamur”, 900 m (jar label), collected by J. J. & J. F. Schmidtler, 08.05.1974.

**Remarks:** ZSM 61/1983 should consist of four instead of three specimens according to the original description. Since the holotype obviously was chosen from this series (and subsequently individually numbered), we presume that the citation of four specimens in the original description is erroneous. A total of 19 additional paratypes housed in BMNH, GNM, NMW and ZDEU according to the original description.

**Present name:** Most probably a subspecies of *Anatololacerta danfordi* according to Schmidtler (1997b): *A. danfordi ibrahimi* (Eiselt & Schmidtler, 1986). See also Arnold et al. (2007).

***Lacerta raddei vanensis***

**Eiselt, Schmidtler & Darevsky, 1993**

Herpetozoa 6(1/2): 66

**Paratypes:** ZSM 2/1980/1-6, 5 males, 1 female, “Van”, collected by Kulzer, 15.05.1912; ZSM 60/1990/1-3 (originally CS 5827-5829), 3 adults, “10 km E Van, 2000 m”, collected by J. F. & H. Schmidtler, 08.06.1990; ZSM 2944-2945/2005, 2 adults, “18 km E Van, 1700 m”, collected by Schmidtler & Schmidtler, 07.06.1976; ZSM 2946-2950/2005 (originally CS 5822-5826), 5 females, “Edremit (schließt südwärts unmittelbar an die Stadt Van an)”, collected by Schmidtler, 06.06.1990; ZSM 2978-2982/2005 (originally CS 76/119-123), 2 males, 2 females, 1 juvenile, “Edremit”, collected by Schmidtler, 07.06.1976; ZSM 2983-2985/2005 (originally CS 5815-5817), 2 males, 1 female, “25 km N Çatak, 2200 m”, collected by Eiselt & Schmidtler, 05.05.1990; ZSM 2986/2005 (originally CS 5818), juvenile, “30 km N Çatak, 2000 m”, collected by Eiselt & Schmidtler, 05.05.1990; ZSM 2963-2972/2005 (originally CS 5805-5814), 3 males, 3 females, 4 juveniles, “2 km SW Güzelsu, 2000 m”, collected by Eiselt & Schmidtler, 07.06.1990; ZSM 2977/2005 (originally CS 84/224), female, “Güzelsu, 2000 m” collected by Schmidtler, 11.08.1984; ZSM 2973-2976/2005 (originally CS 5801-5804), 3 males, 1 juvenile, “SE Güzeldere-Paß (oberhalb Güzeldere), 2350 m”, collected by Schmidtler & Eiselt, 07.06.1990; ZSM 2942-2943/2005, 1 female, 1 juv., “Bendimahi-

Wasserfall (9 km N Muradiye), 1850 m”, collected by Schmidtler, 24.07.1991; ZSM 2951-2955/2005 (originally CS 5781-5785), 3 adults, 2 juveniles, “Bendimahi-Wasserfall (9 km N Muradiye), 1850 m”, same data but collected on 09.06.1990; ZSM 2956-2962/2005 (originally CS 5786-5793), 6 males, 1 juvenile, same locality but collected by Schmidtler & Eiselt, 11.06.1990.

**Remarks:** Holotype NMW 32999. Additional paratypes in FMNH, MHNL, MZF, and NMW according to the original description.

**Present name:** *Darevskia raddei vanensis* (Eiselt, Schmidtler & Darevsky, 1994), fide Arribas (1996a).

***Lacerta trilineata ciliciensis* Schmidtler, 1975**

Veröff. Zool. Staatssamml. München 18: 62

**Holotype:** ZSM 89/1972/1, juvenile male, “15 km N Kozan, Prov. Adana, Türkei”, collected by J. J. & J. F. Schmidtler, 01.04.1972.

**Paratypes:** ZSM 89/1972/2, juvenile, same data as holotype; ZSM 90/1972, male, “Prov. Mersin: S. Gülek”, collected by J. J. & J. F. Schmidtler, 02.04.1972.

**Remarks:** According to the original description 17 additional paratypes in NMW.

**Present name:** *Lacerta media ciliciensis* Schmidtler, 1975 (see Schmidtler 2002).

***Lacerta trilineata pamphylica* Schmidtler, 1975**

Veröff. Zool. Staatssamml. München 18: 57

**Holotype:** ZSM 5/1971, juvenile male, “15 bis 25 km N Alanya Prov. Antalya, Türkei”, collected by J. F. & H. Schmidtler, 08.04.1971.

**Paratypes:** ZSM 6/1971/1-4, 4 juveniles, same data as holotype; ZSM 823/2005 (originally CS 116), subadult male, “Cevizli, Prov. Antalya”, collected by J. J. Schmidtler, 14.04.1972.

**Remarks:** ZSM 6/1971 originally consisted of five specimens according to the original description. One of these specimens, which were kept alive for some time, is now lost (Schmidtler pers. comm.). One additional paratype in NMW.

**Present name:** *Lacerta pamphylica* Schmidtler, 1975 according to Schmidtler (1986b).

***Lacerta sapphirina* Schmidtler, Eiselt & Darevsky, 1994**

Salamandra 30(1): 57

**Holotype:** ZSM 170/1993, female, “Provinzgrenze Van/Ağrı, 30 km NW Erçis, 2000 m, Türkei”, collected by Eiselt & Schmidtler, 11.06.1990.

**Paratypes:** ZSM 2934-2937/2005 (originally CS 5798-5800, CS 5849), 3 juveniles, 1 female, same data as

holotype; ZSM 2938-2941/2005 (originally CS 89/212-215), 3 females, 1 juvenile, same data as holotype but collected on 13.08.1989.

**Remarks:** A parthenogenetic species. Two individuals of the 10 paratypes listed in the original description to be housed in Schmidtler's private collection have been exchanged by J. F. Schmidtler (CS 5794, 5797). Additional paratypes in CAS, NMW, ZFMK, and ZISP according to the original description.

**Present name:** *Darevskia sapphirina* (Schmidtler, Eiselt & Darevsky, 1994), fide Arribas (1996a).

***Lacerta viridis infrapunctata* Schmidtler, 1986**

*Salamandra* 22(1): 42

**Paratype:** ZSM 194/1985, adult, "TR (Giresun): Esbiye" (original description), "östlich Espiye" (jar label), J. Eiselt, 06.06.1968 (jar label).

**Remarks:** Holotype ("NMW Feld Nr. 525") and seven additional paratypes in NMW according to the original description.

***Lacerta viridis paphlagonica* Schmidtler, 1986**

*Salamandra* 22(1): 40

**Holotype:** ZSM 193/1985, male, "Platanen-Auwald bei Kabala, SO Sinop, 50 m, Prov. Sinop, Türkei", collected by J. F. & H. Schmidtler, 20.08.1984.

**Paratypes:** ZSM 529/1979/1-3, 3 specimens, ZSM 530/1979, female, "TR (Kastamonu): Inebolu", collected by G. Niethammer & H. Kumerlöwe, 06.-07.06.1933 (jar label); ZSM 1054/2005 (originally CS 196), female, "2 km S Inebolu", collected by Schmidtler, 31.03.1983; ZSM 1079/2005, female, "35 km W Kastamonu, Araç-Zufluss, 800 m" (label data) [probably identical with "35 km N Kastamonu, 900 m" of the original description], collected by Schmidtler, 08.08.1984; ZSM 1092/2005, adult, "12 km S Küre, 1240 m" (original label data), collected by Schmidtler, 16.08.1984; ZSM 1194-1195/2005, 2 adults, "Küre, 1200 m", collected by Schmidtler, 04.1986; ZSM 1717/2005, adult, "Ballıdağ-Südhang (20 km N Kastamonu), 900-950 m" (original label data), collected by Schmidtler, 05.04.1983; ZSM 2260/2005, adult, "Diphan (30 km S Kastamonu), 1200-1300 m", collected by Schmidtler, 04.04.1983.

**Remarks:** There are considerable uncertainties regarding locality data and number of paratypes. The three specimens of ZSM 529/1979/1-3 are not mentioned as paratypes in the original description. In contrast, ZSM 530/1979 is cited to contain four specimens instead of only one. We regard an incorrect listing as most probable since both series have identical collection data. ZSM 1717/2005 and ZSM 2260/2005 are also not mentioned in the original

description. However, the locality of ZSM 2260/2005 (Diphan) is depicted in figure 4 of the description. Moreover, J. F. Schmidtler informed us that he considered all material in his collection when describing the taxon. Therefore it is clear that the above listed individuals must be regarded as paratypes. In contrast, an additional paratype individual from "15 km W Inebolu" mentioned in the original description could not be located. Four additional paratypes are housed in ZFMK.

**Scincidae Gray, 1825**

***Ablepharus budaki anatolicus* Schmidtler, 1997**

*Herpetozoa* 10(1/2): 54

**Holotype:** ZSM 116/1996, male, "Abanoz-Almdorf (1400 m), 50 km N Anamur (Prov. İçel = Mersin), Türkei", collected by J. F. & H. Schmidtler, 04.03.1996 (original description), 03.04.1996 (jar label).

**Paratypes:** ZSM 3562-3563/2005 (originally CS 76), 2 adults, "20 km SW Antalya, 100 m", collected by Schmidtler, 15.04.1976; ZSM 3561/2005 (originally CS 75), one adult, "Çatallar, 100 m (SW Antalya)", collected by Schmidtler, 13.04.1975 (CS jar label) or 13.05.1975 (original description); ZSM 3564-3566/2005 (originally CS 74), 3 adults, "20 km N Alanya (Antalya), 1000 m", collected by Schmidtler, 10.05.1974; ZSM 3567-3568/2005 (originally CS 87), 2 adults, "12 km N Manavgat (Antalya), 50 m", collected by Schmidtler, 11./14.05.1987; ZSM 3570/2005 (originally CS 96), adult, "25 km NW Silifke (Mersin), 150 m", collected by Schmidtler, 01.04.1996; ZSM 3571-3572/2005 (originally CS 96), 2 adults, "15 km N Limonlu (Mersin), 300 m", collected by Schmidtler, 11./12.04.1996; ZSM 3569/2005 (originally CS 74), adult, "Bozyazı bei Anamur (Mersin)", collected by Schmidtler, 09.05.1974; ZSM 3573/2005 (originally CS 96), adult, "İmamlı, 750 m, NE Silifke (Mersin)", collected by Schmidtler, 09.04.1996.

**Remarks:** In the original description there is only one specimen listed under CS 76 and two under CS 74, whereas an additional paratype with the same data as the holotype is listed under the original number CS 96. Additional paratypes in NMW, MNHG, ZDEU, and ZFMK according to the original description.

***Ablepharus chernovi eiselti* Schmidtler, 1997**

*Herpetozoa* 10(1/2): 44

**Holotype:** ZSM 114/1996, male, "6 km S Karsantı (= Aladağ), 900 m, Prov. Adana, Türkei", collected by J. F. & H. Schmidtler, 02.11.1996.

**Paratypes:** ZSM 3598-3599/2005 (originally CS

96:1-2), 2 adults, “S Karsanti, 90 km N Adana, 900 m”, collected by Schmidler, 01.11.1996; ZSM 3600-3601/2005 (originally CS 90), 2 adults, same data as previous series, but collected 21.04.1990.

**Remarks:** According to the original description four additional paratypes in NMW, ZDEU, and ZFMK.

***Ablepharus chernovi isauriensis* Schmidler, 1997**

Herpetozoa 10(1/2): 50

**Holotype:** ZSM 115/1996, male, “Abanoz-Almdorf (1400 m), 50 km N Anamur (Prov. İçel = Mersin), Türkei”, collected by J. F. & H. Schmidler, 04.03.1996 (original description), 04.04.1996 (CS jar label).

**Paratypes:** ZSM 3517/2005 (originally CS 96), adult, “Koca-Paß, 1500 m, 20 km SE Ermenek (Karaman), 1500 m”, collected by Schmidler, 04.06.1996; ZSM 3516/2005 (originally CS 96), adult, “25 km NW Silifke (Mersin), Göksu-Tal, 150 m”, collected by Schmidler, 01.04.1996; ZSM 3513-3515/2005 (originally CS 96), 3 adults, “15 km N Limonlu (Mersin), 300 m”, collected by Schmidler, 11.-12.04.1996; ZSM 3511/2005 (originally CS 96), adult, “Gölören/Karacadağ, 1600 m”, collected by Schmidler, 30.05.1996; ZSM 3512/2005 (originally CS 86), adult, “Gölören/Karacadağ, 1600 m”, collected by Schmidler, 19.08.1986.

**Remarks:** According to the original description four additional paratypes in MTKD, NMR, NMW, and ZDEU.

***Feylinia currori grandisquamis* Müller, 1910**

Abh. Bayer. Akad. Wiss., II. Kl. 24 (III): 591

**Syntypes:** ZSM 413/1909 (lost), 5 specimens, “Dibongofarm bei Edea, Kamerun” (according to the card index and original description), collected by R. Rhode, 1908.

**Present name:** *Feylinia grandisquamis* Müller, 1910 fide LeBreton (1999).

***Lygosoma assatum* var. *brevis* Werner, 1903**

Abh. K. Bayer. Akad. Wiss., II. Kl., 22: 345

**Holotype:** ZSM 824/0 (lost), adult?, “Coban” [Guatemala], collected by K. Sapper, no date.

**Present name:** *Sphenomorphus cherriei cherriei* fide Peters & Donoso-Barros (1986) and Villa et al. (1988).

***Lygosoma (Emoa) kuekenthali* Boettger, 1895**

Zool. Anz. 18: 117

**Paratype:** ZSM 37/1913 (originally SMF 6291b), male, “Soa Konorra, [...] Nord-Halmaheira” (original

description), “Soa Konorra, Halmaheira” (jar label), collected by Kükenthal, 1895.

**Present name:** *Emoia kuekenthali kuekenthali* (Boettger, 1895), see Greer (1974: 19-21) for the generic status.

***Lygosoma kuekenthali notomoluccense* Brongersma, 1931**

Zool. Anz. 96: 335

**Paratype:** ZSM 62/1947/1, adult, “Ceram” (original description), “Central-Gebirge von Ceram” (jar label), collected by E. Stresemann, no date.

**Remarks:** There are two specimens registered under ZSM 62/1947. The second one (ZSM 62/1947/2) is a subadult with the same collection data. However, Brongersma mentioned only one ZSM specimen in the original description. We regard the larger individual to be the paratype, based on a jar label by A. Greer (“larger specimen almost certainly the cotype mentioned by Brongersma in original description”).

**Present name:** *Emoia kuekenthali notomoluccense* (Brongersma, 1931), see Greer (1974: 19-21) for the generic status.

***Lygosoma (Dasia) leucostictum* Müller, 1923**

Zool. Anz. 57(3/4): 54

**Holotype:** ZSM 441/1911 (lost), female, “Java?”, collected by Elbert, 1907.

**Present name:** *Lamprolepis leucosticta* (Müller, 1923), see Manthey & Grossmann (1997).

***Lygosoma (Hinulia) compressicaudum* Werner, 1897**

Sitzungsber. math.-phys. Cl. k. bayer. Akad. Wiss. 27(2): 210

**Syntypes:** ZSM 80/1947, 1 adult, ZSM 81/1947/1-2, 1 adult, 1 subadult, “Australien” [most probably erroneous], no further collection data.

**Present name:** A handwritten jar label by A. Greer identifies the specimens as “probably *Leiolopisma telfairii* (Desjardin, 1831)” which occurs on Round Island (Mauritius).

***Lygosoma rhodei* Müller, 1910**

Abh. Bayer. Akad. Wiss., II. Kl., 24 (III): 585

**Syntypes:** ZSM 427/1909 (lost), 1 male, 1 female, 1 juvenile, “Dibongo bei Edea, Kamerun” (according to the card index and original description), collected by R. Rhode, 1908.

**Present name:** *Lacertaspis rhodei* (Müller, 1910) according to Schmitz et al. (2005).

### *Mabuya fogoensis nicolauensis* Schleich, 1987

Spixiana, Suppl. 12: 20

**Holotype:** ZSM 1/1982/1 (given as ZSM 1.82.1 in the original description), "S. Nicolau" [Cape Verde], collected by H. H. Schleich & H.-J. Gruber, 02.1981 (jar label).

**Paratypes:** ZSM 1/1982/2-7 (given as ZSM 1.82.2-7 in the original description), 6 specimens, same data as holotype.

**Remarks:** According to Schleich (1987: 72) the only *Mabuya* found on S. Nicolau by the author were taken half-way between Preguiça and Rib. Brava. This may be the precise collection site of the type series.

**Present name:** *Chioninia fogoensis nicolauensis* (Schleich, 1987) fide Mausfeld et al. (2002).

### *Mabuya fogoensis antaoensis* Schleich, 1987

Spixiana Suppl. 12: 22

**Holotype:** ZSM 23/1982/1 (given as ZSM 23.1982.1 in the original description), "St. Antão" [Cape Verde], collected by Schleich & Wuttke, 09.1981 (jar label).

**Paratypes:** ZSM 23/1982/2-9 (given as ZSM 23.1982.2-9 in the original description), 8 specimens, same data as holotype.

**Remarks:** According to Schleich (1987: 67) *Mabuya fogoensis antaoensis* has been collected by him on Santo Antão, 4-10 km north of the road from Porto Novo to Chã da Monte on 24.09.1981. This may be the precise collecting data for the type series.

**Present name:** *Chioninia fogoensis antaoensis* (Schleich, 1987) fide Mausfeld et al. (2002).

### *Scincus bistriatus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 23

**Paralectotype:** ZSM 112/0 (lost), "Habitat Parae in locis petrosis" [Brazil, probably Belém (01°26'S, 48°29'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation (RMNH 2512) by Hoogmoed & Gruber (1983).

**Present name:** *Mabuya bistriata* (Spix, 1825); see also Avila-Pires (1995) for comments on the nomenclatural history of this name.

### *Scincus nigropunctatus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 24

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), "Habitat ad pagum Ecgá" [Brazil, near Tefé (03°21'S, 64°42'W); probably erroneous] according to the original description and Vanzolini (1981),

collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Neotype designation (MPEG 15248) by Avila-Pires (1995). See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Mabuya nigropunctata* (Spix, 1825). Listed as "*Mabuya* sp." by Hoogmoed & Gruber (1983) and subsequently revalidated by Avila-Pires (1995).

## Teiidae Gray, 1827

### *Ameiva ameiva vogli* Müller, 1929

Zool. Anz. 83(5/8): 100

**Holotype:** ZSM 1/1929 (lost), male, "Barinas (Zamora), Venezuela", collected by C. Vogl, 1928.

**Paratypes:** ZSM 2/1929 (lost), 4 specimens; ZSM 3/1929 (lost), 3 males; ZSM 4/1929 (lost), 1 male, 2 females, 1 juvenile; ZSM 5/1929a (lost), 3 specimens; ZSM 6/1929 (lost), 1 juvenile; all with the same data as the holotype (card index).

**Remarks:** It appears likely that the original description lists the type series only incompletely, since only 12 specimens are mentioned. The whole material seems to be lost during World War II.

**Present name:** *Ameiva ameiva* (Linnaeus, 1758). The species is regarded as monotypic by Vanzolini (1986) and Avila-Pires (1995).

### *Crocodilurus amazonicus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 19

**Holotype:** ZSM 638/0, adult male, "Habitat ad ripam Solimoëns prope pagum St. Pauli" [Brazil, Rio Solimões near São Paulo de Olivença (03°30'S, 68°45'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Crocodilurus amazonicus* Spix, 1825. *C. amazonicus* was listed as a synonym of *C. lacertinus* by Hoogmoed & Gruber (1983). However, according to de Massary & Hoogmoed (2001) the valid name should be *C. amazonicus*.

### *Crocodilurus ocellatus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 20

**Lectotype:** ZSM 639/0, juvenile, "Habitat ad flumen Solimoëns prope pagum Ecgá" [Brazil, Rio Solimões near Tefé (03°21'S, 64°42'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983); RMNH 3394 is paralectotype.

**Present name:** *Crocodilurus amazonicus* Spix, 1825. *C. ocellatus* was listed as a synonym of *C. lacertinus* by Hoogmoed & Gruber (1983). However, according to de Massary & Hoogmoed (2001) the valid name should be *C. amazonicus*.

#### *Kentropyx calcaratus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 21

**Holotype?:** ZSM 190/0 (lost), "Habitat ad flumen Itapicurú in provincia Maranhao" [Brazil, Rio Itapicuru, probably between Caxias (04°50'S, 43°21'W) and Arrarial (02°37'S, 44°41'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Kentropyx calcarata* Spix, 1825 according to Hoogmoed & Gruber (1983).

#### *Tejus ocellifer* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 23

**Syntype:** ZSM 111/0 (lost), "Habitat in Bahia sub arbustis" [Brazil, possibly city of Salvador (13°00'S, 38°30'W) or former province of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Cnemidophorus ocellifer* (Spix, 1825) according to Hoogmoed & Gruber (1983).

#### *Tejus tejou cyanogaster* Müller, 1928

Zool. Anz. 77(3/6): 69

**Lectotype:** ZSM 194/1926/1, male, "San José de Chiquitos, Bolivien", collected by Deutsche Chaco-Expedition, 11.1926.

**Paralectotypes:** ZSM 194/1926/2, female; ZSM 192/1926/1-16, 16 specimens; all with the same data as the holotype.

**Remarks:** Lectotype designation by Hellmich (1960).

**Present name:** Regarded as a synonym of *Teius teyou* (Daudin, 1802) by Cei (1993).

#### *Tejus tritaeniatus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 22

**Lectotype:** ZSM 705/0, juvenile male, "Habitat in provincia Bahiae" [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983); additional paralectotype: RMNH 3382.

**Present name:** *Ameiva ameiva* (Linnaeus, 1758), according to Hoogmoed & Gruber (1983).

#### *Tupinambis nigropunctatus* Spix, 1825

Animal. Nova Spec. Nov. Lacert.: 18

**Lectotype:** ZSM 629/0, male, "Habitat [...] in fossis arenosis subterraneis provinciarum Brasiliae" [Brazil] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotypes:** ZSM 628/0, male; ZSM 3208/0, male; ZSM 627/0, embryo; ZSM 630/0 (lost); all with the same data as the lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Tupinambis teguixin* (Linnaeus, 1758). Hoogmoed & Gruber (1983) regarded *Tupinambis nigropunctatus* as a valid species, but more recently Avila-Pires (1995) placed it in the synonymy of *T. teguixin*.

### Varanidae Hardwicke & Gray, 1827

#### *Varanus panoptes horni* Böhme, 1988

Salamandra 24(2/3): 90

**Paratype:** ZSM 1/1970, subadult male, "Papua-Neuguinea: Port Moresby, Savanne", collected by T. Schultze-Westrum, 05.11.1959.

**Remarks:** Holotype (ZFMK 19290) and five additional paratypes in ZFMK according to the original description.

### Suborder Serpentes

#### Atractaspididae Günther, 1858

#### *Michellia katangae* Müller, 1911

Zool. Anz. 38(14/15): 358

**Holotype:** ZSM 525/1911 (lost), juvenile, "Kituri, Katangadistrikt Kongostaat" [Democratic Republic of Congo], collected by Michell, no date.

**Remarks:** Type species of the genus *Michellia* Müller, 1911.

**Present name:** *Hypoptophis wilsoni katangae* according to Witte & Laurent (1947).



Fig. 15. Holotype of the African atractaspid snake *Polemon barthii* Jan, 1858 (ZSM 2167/0).

***Polemon Barthii* Jan, 1858**

Rev. Mag. Zool. (2) 10: 520

**Holotype:** ZSM 2167/0, adult, “Guinée”, collected by Barth, no date.

**Remarks:** Werner (1897) already believed the Munich specimen to be the holotype of *P. barthii* (“Das Münchener Exemplar ist vermuthlich das Original zu Jan’s Beschreibung.”).

***Xenocalamus michelli* Müller, 1911**

Zool. Anz. 38 (14/15): 359

**Holotype:** ZSM 524/1911 (lost), adult, “Kituri, Katangadistrikt Kongostaat” [Democratic Republic of Congo], collected by Michell, date unknown.

**Boidae Gray, 1825**

***Sanzinia madagascariensis voluntary*  
Vences & Glaw, 2004**

Salamandra 39(3/4) [“2003”]: 194

**Holotype:** ZSM 804/2001, adult male, “Ampijoroa (Ankarafantsika Reserve)” [Madagascar], collected by M. Vences, D. R. Vieites, G. García, V. H. Raheisoa & A. Rasoamamonjinrina, 01.03.2001.

**Remarks:** Two paratypes in MNHN.

***Xiphosoma araramboya* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 45

**Lectotype:** ZSM 1365/0, female, “Habitat in aquosis flumini Negro, Amazonum laterali, confinibus” [Brazil, Rio Negro] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 1366/0 (lost), 6 specimens, same data as lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).



**Fig. 16.** Holotype of *Xiphosoma araramboya* Wagler, 1824 (ZSM 1365/0), currently considered a synonym of the boiid *Corallus caninus* (Linnaeus, 1758).

**Present name:** *Corallus caninus* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

***Xiphosoma dorsuale* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 43

**Lectotype:** ZSM 1364/0, female, “Habitat in aquosis fluminis Amazonum” [Brazil, Rio Amazonas] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Corallus hortulanus enhydris* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983) and McDiarmid et al. (1996).

***Xiphosoma ornatum* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 40

**Holotype:** ZSM 2694/0, juvenile, “Habitat in aquis flumini Solimöens confinibus” [Brazil, Rio Solimões]

according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Corallus hortulanus enhydris* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983) and McDiarmid et al. (1996).

**Colubridae Oppel, 1811 (sensu lato)**

***Aporophis lineatus lativittatus* Müller, 1928**

Zool. Anz. 77(3/6): 74

**Holotype:** ZSM 6/1928, female, “San Fermin (Chiquitos), Bolivien”, collected by Deutsche Chaco-Expedition, 30.10.1926.

**Paratype:** ZSM 86/1928, same data as the holotype.

**Present name:** Synonym of *Liophis meridionalis* (Schenkel, 1901) according to Dixon (1989) and Cei (1993: 588).





Fig. 17. Holotype of *Dipsadoboa underwoodi* Rasmussen, 1993 (ZSM 162/1909/1).

***Apostolepis nigriceps* Werner, 1897**

Sitzungsber. math.-phys. Cl. k. bayer. Akad. Wiss. 27 (2): 207

**Holotype:** ZSM 197/0 (lost), adult, “Sao Paulo Brasilien” (original description), “Staat Sao Paulo, Brasilien” (card index), collector and date unknown, donated by Scheel 1891.

**Present name:** *Apostolepis dimidiata* (Peters, 1880), see Harvey (1999).

***Catostoma chalybeum* Wagler, 1830**

Nat. Syst. Amphib.: 194

**Holotype?:** ZSM 1940/0 (lost), “Mexico”, collected or donated by Herzog M. v. Leuchtenberg, no date (card index).

**Remarks:** Downs (1967) stated that the type is apparently lost and presumed that it was previously housed in the “Milan museum” (MSMN). However, most of the material that has been examined by Wagler was from the Munich collection and it is more likely that his description is based on a specimen of the “Museo Monacensi” (now ZSM) or from his private collection (now apparently lost). ZSM 1940/0 is apparently the only specimen of this taxon that ever has been housed in the Munich collection. It is possible that this individual is the holotype of *Catostoma chalybeum*.

**Present name:** *Geophis chalybeus* (Wagler, 1830). See Downs (1967: 36 ff.) for a comprehensive statement on the identity of *Catostoma chalybeum*. *Geophis chalybeus* is the type species of the genus *Geophis* Wagler, 1830.

***Clelia cornelii* Müller, 1928**

Zool. Anz. 77 (3/6): 76

**Holotype:** ZSM 7/1928 (lost), male, “Maracay am See von Valencia, Venezuela”, collected by C. Vogl, 1926.

**Present name:** *Oxyrhopus petola* (Linnaeus, 1758) fide Peters & Donoso-Barros (1986).

***Clelia clathrata pulcherrima* Müller, 1923**

Zool. Anz. 57 (7/8): 153

**Holotype:** ZSM 631/1920, male, “Humboldt, Staat Sta. Catharina, Süd-Brasilien”, collected by W. Ehrhardt, no date.

**Present name:** *Oxyrhopus clathratus* Duméril, Bibron & Duméril, 1854 (fide Cei 1993).

***Contia collaris* var. *macrospilota* Werner, 1903**

Abh. K. Bayer. Akad. Wiss., II. Kl. 22: 381

**Holotype:** ZSM 1926/0 (lost), female, “Russisch-Armenien”, collected by M. Korb, 1901.

**Remarks:** Schmidtler & Schmidtler (1978) already considered the holotype to be lost (see also Darevsky & Bakradze 1982). The type locality has been restricted to “Mount Takjaltu in the vicinity of Kasikoporan, a village 20 km WSW of Tuzluca, Vilayet Kars, Turkey” by Eiselt (1982).

**Present name:** *Eirenis collaris macrospilotus* (Werner, 1903) according to Darevsky & Bakradze (1982).



Fig. 18. Lectotype of *Dryinus aeneus* Wagler, 1824 (ZSM 2645/0), currently *Oxybelis aeneus*, one of the most widely distributed Neotropical snake species.

***Crotaphopeltis hotamboeia kageleri* Uthmüller, 1939**

Zool. Anz. 125 (5/6): 108

**Holotype:** ZSM 254/1937 (originally private collection W. Uthmüller Nr. 93), adult male “Kaffeepflanzung ‘Kilinge’ in ‘Sanya’, am Südwest-Kilimandjaro in einer Höhe von 1350 m” [Tanzania], collected by G. Kageler, 02.12.1935.

**Remarks:** The paratype ZSM 244/1937 mentioned in the original description (adult, same data as holotype but collected between October 1936 and January 1937) has been exchanged (now MCZ 51532).

**Present name:** *Crotaphopeltis shrevei kageleri* according to Rasmussen (1986).

***Dendrelaphis kopsteini* Vogel & van Rooijen, 2007**

Zootaxa 1394: 34

**Paratype:** ZSM 277/1909, female, “Tanjung Morawa, located near Medan, Sumatera Utara Province”, Sumatra, Indonesia, donated by Admiral Wiedemann, 1908.

**Remarks:** Holotype in MNHN, further paratypes in MNHN, QSMI, ZMH and RMNH.

***Diaphorolepis wagneri* Jan, 1863**

Elenco Sistematico degli Ofidi: 98

**Holotype:** ZSM 2708/0, adult, “Andes de l’Ecuador” (original description), no further collection data.

**Remarks:** See Werner (1897) for a comprehensive description of the holotype and Bogert (1964) for additional comments.

***Dipsadoboa underwoodi* Rasmussen, 1993**

Steenstrupia, 19(4): 169

**Holotype:** ZSM 162/1909/1 (given as 162E/1909 in the original description), male, “Mukonjefarm, Mundame (04°35’N 09°31’E), Cameroon”, collected by K. S. Rhode, 1909.

**Paratypes:** ZSM 162/1909/2-5 (given as 162A-D/1909 in the original description), 4 specimens, same data as holotype.

**Remarks:** One additional paratype cited in the original description (“ZSM 162F/1909”) was donated to ZMUC (now ZMUC R-631337). Numerous additional paratypes in BMNH, BH, CAS, CMNH, FMNH, MHNG, MNHN, NMW, USNM, ZMB.

***Drymobius boddaerti* var. *modesta* Werner, 1903**

Abh. K. Bayer. Akad. Wiss., II. Kl. 22: 346

**Holotype:** ZSM 1627/0, adult, “Coban, Guatemala”, collected by K. Sapper, 1899.

**Present name:** *Dryadophis melanolomus laevis* (Fischer, 1881), see Peters & Orejas-Miranda (1986) and Smith & Larsen (1974).

***Dryinus aeneus* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 12

**Lectotype:** ZSM 2645/0, female, “Habitat in sylvis adjacentibus flumini Solimõesens, prope Ega” [Brazil, Rio Solimões near Tefé (03°21’S, 64°42’W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Oxybelis aeneus* (Wagler, 1824) according to Hoogmoed & Gruber (1983).

***Eirenis barani* Schmidtler, 1988**

*Salamandra* 24(4): 204

**Holotype:** ZSM 293/1988, adult male, “Akdam, 35 km W Kozan (Prov. Adana), ca. 650 m ü. M.” [Turkey], collected by J. F. & H. Schmidtler, 27.05.1988.

**Paratypes:** ZSM 294/1988/1-3, 3 males, same data as holotype; ZSM 637/2005 (originally CS 59), female, same data as holotype; ZSM 899-900/2005 (originally CS 28), 2 specimens, “Hieropolis-Castrabela, 15 km N Osmaniye (Prov. Adana), 150 m”, collected by J. F. & H. Schmidtler, 28.05.1988; ZSM 3256-3257/2005 (originally CS 7), 2 specimens, “1 km N Nurdag-Paß (oberhalb Fevsipaşa, Amanus-Gebirge, Prov. Adana), 1100 m” collected by J. F. & H. Schmidtler, 30.05.1988; ZSM 3938-3939/2005, 2 specimens, locality unclear: “8 km SE Kozan” or “Kozan baraji (10 km N Kozan)”, 100-150 m, collected by J. J. & J. F. Schmidtler, 16.05.1978.

**Remarks:** According to the original description additional paratypes in NMW, and ZFMK.

**Present name:** *Eirenis barani barani* Schmidtler, 1988 (see Schmidtler 1997c).

***Eirenis barani bischofforum* Schmidtler, 1997**

*Salamandra*, 33(1): 46

**Holotype:** ZSM 276/1995 (originally CS 95/102/-112, part.), subadult female, “N. Saimbeyli, 1450 m, Prov. Adana” [Turkey], collected by W. Bischoff & J. F. Schmidtler, 23.05.1994.

**Paratypes:** ZSM 1431/2005 (originally CS 95/102-112, part.), 1 juvenile, “10 km N Saimbeyli, 1450 m” (jar label), collected by Bischoff & Schmidtler, 23.05.1994; ZSM 3752-3760/2005 (originally CS 95/102-112, part.), 4 adults, 5 juveniles, “15 km N Saimbeyli, 1500 m” (jar label), collected by Schmidtler & Schmidtler, 08.06.1993; ZSM 1618-1619/2005 (originally CS 95/113-114), 2 adults, “NW Püren-Paß, 11 km SW Göksun, 1550 m” (jar label), collected by Bischoff & Schmidtler, 29.05.1994.

**Remarks:** According to the original description (Schmidtler 1997c) six additional paratypes in NMR and ZFMK.

***Eirenis fasciatus* Jan, 1863**

*Archivio Zool. Anat. Fisiol.* 2/2: 260

**Holotype:** ZSM 1928/0, adult, “Tiberias” [Israel], collected or donated by Schubert, no date.

**Remarks:** See Jan (1866: pl. 5, fig. 2) for an illustration of the type specimen and Sivan & Werner (2003) for a redescription of the species and comments on the type of *Eirenis fasciatus*.

**Present name:** *Eirenis coronella coronella* (Schlegel, 1837), see Sivan & Werner (2003).

***Eirenis hakkariensis* Schmidtler & Eiselt, 1991**

*Salamandra* 27(4): 230

**Holotype:** ZSM 3/1991, female, “oberhalb Hakkari-Stadt, 1900 m ü. M.” [Turkey], collected by J. F. & H. Schmidtler, 11.06.1976.

**Paratypes:** ZSM 2887-2891/2005 (originally CS 5857-5861), 1 male, 4 females, same data as holotype; ZSM 2892/2005 (original Eiselt-Feldnummer 572), 1 juvenile, ZSM 3409/2005 (original Eiselt-Feldnummer 581), 1 juvenile, “oberhalb Hakkari-Stadt, 1800 m, collected by J. Eiselt, 21.05.1966; ZSM 89/1918/1-2, 2 males, “Mukus (“Möks”), S. Catak” (original description)/“Mokyc, Kurdistan, Armenischer Taurus” (jar label), collected by Kulzer, 25.05.-02.06.1912.

**Remarks:** According to the original description 11 additional paratypes in MNHP and NMW.

**Present name:** *Eirenis thospitis hakkariensis* Schmidtler & Eiselt, 1991 according to Nagy et al. (2004: 163-164).

***Eirenis levantinus* Schmidtler, 1993**

*Spixiana* 16(1): 87

**Holotype:** ZSM 14/1991 (given as 14/91 in the original description), female, “6 km SW Karaisalı (Prov. Adana)” [Turkey], collected by J. F. & H. Schmidtler, 23.05.1991.

**Paratypes:** ZSM 197/1979 (given as “ZSM o.Nr.” in the original description), male, “Amik-göl, Prov. Antakya”, collected by F. Sauer, 12.04.1976; ZSM 3230/2005 (originally CS 88), juvenile male, “Yayladağı (Prov. Antakya; nahe der syrischen Grenze)”, 500 m (CS jar label), collected by Schmidtler, 24.03.1989; ZSM 3231-3232/2005 (originally CS 89 El 11-12), 2 adults, “SW Ceyhan, (Prov. Adana, 50 m)” collected by Schmidtler, 21./22.03.1989; ZSM 3240/2005 (originally CS 88 El 10), female, “10 km E Osmaniye (Prov. Adana, 550 m), collected by Schmidtler, 29.05.1988; ZSM 3248-3249/2005 (originally CS 88 El 1-2), 2 males, “Yarpuz, 25 km SE Osmaniye (Prov. Adana, 1100 m)”, collected by Schmidtler, 29.05.1988; ZSM 3265/2005 (originally CS 89), female, “Lavafeld bei Toprakkale (Adana)”, collected by Schmidtler, 29.03.1989; ZSM 3268-3269/2005 (originally CS 91), 2 specimens, “Abzweigung Camlyayla (Prov. Mersin, 650 m)”, collected by Schmidtler, 31.05.1991; ZSM 3410-3417/2005 (originally CS 91), 8 specimens, “Kırıklı, 15 km W Bahce (Prov. Adana, 450 m), collected by Schmidtler, 25./29.05.1991; ZSM 553/2005 (originally CS 77), male, “Harbiye (Prov. Antakya, 300 m)”, collected by Schmidtler, 13.07.1977.

**Remarks:** According to the original description numerous additional paratypes in MNHG, NMW, SMF, ZDEU, and ZIG. One specimen of former CS



Fig. 19. Holotype of *Eirenis rothii* Jan, 1863 (ZSM 75/0).

91 from Kırıklı has been given to ZFMK (now ZFMK 55931). Figures 11 (holotype) and 12 of the original description have been exchanged (J. F. Schmidtler, pers. comm.).

***Eirenis modestus cilicius* Schmidtler, 1993**

Spixiana 16(1): 82

**Holotype:** ZSM 2/1991 (given as “2/91” in the original description), juvenile male, “Tal des Lamas-Flusses, ca. 10 km NW Limonlu (Prov. Mersin), etwa 50 m ü. M.” [Turkey], collected by J. F. & H. Schmidtler, 21.05.1991.

**Remarks:** According to the original description 13 paratypes in MNHG and NMW.

***Eirenis Rothii* Jan, 1863**

Archivio Zool. Anat. Fisiol. 2/2: 259

**Holotype:** ZSM 75/0, adult, “dintorni di Gerusalemme” [environments of Jerusalem, Israel] (original description), “Jerusalem” (jar label), collected or donated by Roth, no date.

**Remarks:** The ZSM houses three additional specimens with the same collection data as the holotype

(ZSM 74/0/1-3: one juvenile, one male, one female). However, from the original description it is clear, that Jan had only ZSM 75/0 at hand, when describing the taxon (“L’unico individuo da me veduto...”). Consequently, both series are neither syntypes, nor are the individuals of ZSM 74/0 paratypes. See Schmidtler & Schmidtler (1978, pl. I, Fig. 5) for a photograph of the dorsal side of the head.

**Present name:** *Eirenis rothii* Jan, 1863.

***Eirenis thospitis* Schmidtler & Lanza, 1990**

Amphibia-Reptilia 11: 363

**Paratype:** ZSM 198/1979, male, “Van”, collected by H. Kulzer, 15.05.1912.

**Remarks:** Holotype (MZUF 33663) and three additional paratypes in MZUF and SRSN according to the original description.

**Present name:** *Eirenis thospitis thospitis* Schmidtler & Lanza, 1990 according to Nagy et al. (2004: 163-164).



Fig. 20. Holotype of the South American colubrid *Elaps Martii* Wagler, 1824 (ZSM 1844/0), currently *Hydrops martii martii*.

***Elaphe schrencki besenbruchi* Müller, 1923**

Zool. Anz. 57(7/8): 150

**Holotype:** ZSM 533/1911 (erroneously given as 553/1911 in the original description), subadult male, “Tsingtau (Prov. Shangtung), China”, collected by Besenbruch, 1910.

**Present name:** Regarded as junior synonym of *Elaphe schrenckii anomala* (Boulenger, 1916), see Zhao & Adler (1993).

***Elaps Martii* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 3

**Holotype:** ZSM 1844/0, male, “Habitat rarus in provincia Maranhão ad flumen Itapicurú” [Brazil, Rio Itapicuru, probably between Caxias (04°50'S, 43°21'W) and Arrarial (02°37'S, 44°41'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Hydrops martii martii* (Wagler, 1824) according to Hoogmoed & Gruber (1983).

***Elaps melanocephalus* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 8

**Lectotype:** ZSM 2173/0/1 (ZSMH 2173/0 A in Hoogmoed & Gruber 1983), male, “Habitat in terris flumini Solimöens adjacentibus” [Brazil, Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 2173/0/2 (ZSMH 2173/0 B in Hoogmoed & Gruber 1983), female, same data as lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Tantilla melanocephala melanocephala* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

***Elaps Schrankii* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 1

**Holotype or syntypes:** ZSM 1847/0 (lost), “Habitat ad flumen Japura fluvio Amazonum laterale” [Brazil or Colombia, Rio Japura from its mouth (Brazil, 03°08'S, 64°66'W) to Araracuara (Colombia, 00°24'S,

72°17'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Hydrodynastes bicinctus bicinctus* (Hermann, 1804) according to Hoogmoed & Gruber (1983).

#### *Elaps triangularis* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 5

**Holotype:** ZSM 1846/0, male, "Habitat prope Ega ad lacum Teffé cum flumine Solimões confluentem" [Brazil, near Tefé (03°21'S, 64°42'W) at the connection of lake Tefé and Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Hydrops triangularis triangularis* (Wagler, 1824) according to Hoogmoed & Gruber (1983).

#### *Erythrolamprus longicaudus* Werner, 1903

Abh. K. Bayer. Akad. Wiss., II. Kl. 22: 348

**Holotype:** ZSM 216/0 (lost), adult, "Coban, Guatemala", collected by K. Sapper, no date (according to the card index).

**Present name:** Junior synonym of *Rhadinaea decorata* (Günther, 1858), see Myers (1974: 68).

#### *Helicops pictiventris* Werner, 1897

Sitzungsber. math.-phys. Cl. k. bayer. Akad. Wiss. 27(2): 205

**Holotype:** ZSM 198/0 (lost), adult, "Brasilien (Porto Alegre)", collector and date unknown (according to the card index).

**Remarks:** Additional type material is mentioned to be housed at the "naturhistorisches Institut Linnaea" in the original description.

**Present name:** *Helicops infrataeniatus* Jan, 1865 according to Hoogmoed & Gruber (1983).

#### *Heteroliodon fohy* Glaw, Vences & Nussbaum, 2005

Herpetologica 61(3): 276

**Holotype:** ZSM 548/2000, most probably adult male, "Montagne des Français, (12°19'17"S, 49°20'13"E, ca. 170 m elevation), Antsiranana Province, northern Madagascar", collected by M. Landsberger, M. Vences, F. Glaw & K. Schmidt, 13.03.2000.

#### *Himantodes cenchoa* var. *elegans* Jan, 1871

Iconographie Générale des Ophidiens, 38<sup>e</sup> liv.: p. 3, pl. 2, fig. 1

**Holotype:** ZSM 30/0 (lost), "Amérique centrale" (original description), collected by M. Wagner, no further collection data.

**Present name:** *Imantodes gemmistratus* (Cope, 1861) according to Smith (1942: 384-391).

#### *Leptodira weiseri* Müller, 1923

Zool. Anz. 57(7/8): 152

**Holotype:** ZSM 4/1922, male, "Caspinchango, Valle Cachaqué (Prov. Catamarca), Argentinien", collected by V. Weiser, 03.1921.

**Present name:** Regarded as a junior synonym of *Oxyrhopus rhombifer bachmanni* (Weyenberg, 1876), see Cei (1993).

#### *Leptognathus robusta* Müller, 1923

Zool. Anz. 57(7/8): 155

**Holotype:** ZSM 632/1920 (lost), female, "Ost-Ecuador", collected by Feyer, 1910.

**Paratypes:** ZSM 633/1920 (lost), 3 specimens, same data as holotype (according to the card index).

**Present name:** Junior synonym of *Dipsas variegata variegata* (Duméril, Bibron & Duméril 1854), see Peters (1960).

#### *Leptophis argentinus* Werner, 1903

Abh. K. Bayer. Akad. Wiss., II. Kl. 22: 384

**Holotype:** ZSM 1797/0 (lost), adult, "Rosario, Argentinien" (original description), "Argentinien, Rosario da Santa Fé" (card index), collected by König, 1903.

**Present name:** *Leptophis ahaetulla marginatus* (Cope, 1862) according to Peters & Orejas-Miranda (1986).

#### *Liophis atahuallpae* Steindachner, 1901

Anz. Akad. Wiss. Wien 38: 195 [abstract only]; Denkschr. K. K. Akad. Wiss., Math.-Naturwiss. Cl., Wien, 72: 105, pl. I, figs. 4, 4a [comprehensive description]

**Holotype:** ZSM 106/1926 (lost), adult, "unterhalb Las Palmas am Westabhänge der Anden, auf dem Wege von Babahoyo nach Guaranda (West-Ecuador) ..., in ca. 2500 m Seehöhe", collected by Therese Prinzessin von Bayern, 1898.

**Remarks:** The type was erroneously supposed to be housed in the "Vienna Museum" (= NMW) by Myers (1973: 21).

**Present name:** *Saphenophis atahuallpae* (Steindachner, 1901), see Myers (1973: 19-22).

***Liophis Wagleri* Jan, 1859**

see *Natrix almada/almadensis* Wagler, 1824

***Liopholidophis dimorphus* Glaw, Nagy, Franzen & Vences, 2007**

Zoologica Scripta 36 (4): 294

**Holotype:** ZSM 252/2004 (field number FGZC 0491), adult male, “Montagne d’Ambre, northern Madagascar, 12°30’S, 49°10’E, c. 800 m above sea level” collected by F. Glaw, M. Puente, R. D. Randrianiaina & A. Razafimanantsoa, 21.02. 2004.

**Paratype:** ZSM 276/2004 (field number FGZC 0529), adult female, “Montagne d’Ambre, northern Madagascar, c. 800-1000 m above sea level”, collected by A. Razafimanantsoa, 24.02. 2004.

***Liopholidophis martae* Glaw, Franzen & Vences, 2005**

Salamandra 41 (1/2): 84

**Holotype:** ZSM 253/2004, male, “Montagne des Français (12°19’34”S, 49°20’09”E, ca. 300 m above sea level), Antsiranana Province, northern Madagascar”, collected by F. Glaw, M. Puente & R. D. Randrianiaina, 23.02.2004.

**Present name:** *Bibilava martae* (Glaw, Franzen & Vences, 2005) according to Glaw et al. (2007).

***Lystrophis semicinctus weiseri* Müller, 1928**

Zool. Anz. 77 (3/6): 72

**Holotype:** ZSM 5/1928 (lost), female, subadult, “Anden von Catamarca, Argentinien”, collected by V. Weiser, 1926 (according to the original description).

**Paratype:** ZSM 68/1928 (lost), juvenile, same data as holotype.

**Present name:** The species is regarded as monotypic by Cei (1993).

***Mimometopon sapperi* Werner, 1903**

Abh. K. Bayer. Akad. Wiss., II. Kl. 22: 349

**Holotype:** Uncatalogued (lost), one specimen, “Guatemala”, collected by K. Sapper, date unknown.

**Present name:** Junior synonym of *Amastridium veliferum* Cope, 1861 according to Peters & Orejas-Miranda (1986: 18).

***Natrix almada* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 30

***Natrix almadensis* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: pl. 10, fig. 3

**Lectotype:** ZSM 2688/0, juvenile, “Habitat prope Almada in vicinitate urbis Bahiae” [Brazil, Castelo

Novo (14°39’S, 39°10’W) near Salvador] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 2747/0, male, same data as lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983). Both specimens are also syntypes of *Liophis Wagleri* Jan, 1859.

**Present name:** *Liophis almadensis* (Wagler, 1824) according to Hoogmoed & Gruber (1983) and Dixon (1989).

***Natrix aspera* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 37

**Lectotype:** ZSM 1528/0, female, “Habitat numerosus in provinciae Bahiae adjacentibus” [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Helicops angulatus* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

***Natrix bahiensis* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 27

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), “Habitat in terris provinciae Bahiae” [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** Incertae sedis or possibly *Liophis almadensis* (Wagler, 1824) according to Hoogmoed & Gruber (1983) and Dixon (1989).

***Natrix cherseoides* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 29

**Lectotype:** ZSM 2692/0/1 (ZSMH 2692/0 A in Hoogmoed & Gruber 1983), male, “Habitat non rara in confinibus urbis Brasiliae principis Rio de Janeiro” [in error] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 2692/0/2 (ZSMH 2692/0 B in Hoogmoed & Gruber 1983), male; ZSM 1467/0 (lost), 2 specimens, all with the same data as the lectotype.

**Remarks:** Lectotype designation and discussion in

Hoogmoed & Gruber (1983).

**Present name:** *Natrix maura* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

***Natrix cinnamomea* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 20

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), "Habitat in sylvis flumini Amazonum confinibus" [Brazil, Rio Amazonas] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Natrix cinnamomea* Wagler, 1824 is a nomen dubium according to Hoogmoed & Gruber (1983).

***Natrix Forsteri* Wagler, 1824**

Serpentum Brasiliensium species novae, pl. 4, fig. 1

***Natrix G. Forsteri*, Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 16

**Holotype:** ZSM 1768/0, female, "Habitat in provincia et prope urbem Bahiae" [Brazil, former province of Bahia, part of the present state of Bahia, and city of Salvador (13°00'S, 38°30'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Liophis typhlus* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

***Natrix lacertina* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 18

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), "Habitat in locis sylvestribus urbis Bahiae" [in error] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion.

**Present name:** *Malpolon monspessulanus monspessulanus* (Hermann, 1804) according to Hoogmoed & Gruber (1983).

***Natrix melanostigma* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 17

**Lectotype:** ZSM 199/0, male, "Habitat in provincia Bahiae" [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix

and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Echinanthera melanostigma* (Wagler, 1824) according to Di Bernado (1992).

***Natrix natrix schweizeri* Müller, 1932**

Bl. Aquar.- Terrar.-kde 43 (19): 319

**Syntypes:** ZSM (SLM) 1869 (lost), female, "Insel Milos, Kykladen", collected by H. Schweizer, 05.1932; ZSM (SLM) 1870a, female, ZSM (SLM) 1870b, male (both lost), same data as ZSM (SLM) 1869.

**Remarks:** This taxon is based on several untraced specimens (exact number unknown, only two explicitly described in the original description) originally in the possession of H. Schweizer. Among these specimens are most likely the three specimens extensively described by Müller (1933) in a subsequent paper and incorrectly indicated as "type" (ZSM [SLM] 1869) and "paratypes" (ZSM [SLM] 1870a and 1870b).

***Natrix occipitalis* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 21

**Lectotype:** ZSM 2053/0, male, "Habitat ad flumen Solimöens" [Brazil, Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Oxyrhopus formosus* (Wied, 1820) according to Hoogmoed & Gruber (1983).

***Natrix ocellata* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 32

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), "Habitat ad urbem Rio de Janeiro" [in error: specimens originated from the Iberian peninsula] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion.

**Present name:** *Natrix maura* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

***Natrix punctatissima* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 39

**Lectotype:** ZSM 2043/0, male, "Habitat non rara ad urbem Bahiae" [Brazil, city of Salvador (13°00'S, 38°30'W)] according to the original description and



Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Thamnodynastes pallidus* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983) but possibly still to be evaluated, since several new species from this genus have been described recently from the general region of the type locality of *Natrix punctatissima*.

#### *Natrix Scurrula* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 24

**Lectotype:** ZSM 2628/0, male, "Habitat aquis fluminis Japura" [Brazil or Colombia, Rio Japura from its mouth (Brazil, 03°08'S, 64°66'W) to Araracuara (Colombia, 00°24'S, 72°17'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Chironius scurrulus* (Wagler, 1824) according to Hoogmoed & Gruber (1983).

#### *Natrix semilineata* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 33

**Lectotype:** ZSM 1832/0/1 (ZSMH 1832/0 A in Hoogmoed & Gruber 1983), male, "Habitat ad flumen Solimöens" [Brazil, Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 1832/0/2 (ZSMH 1832/0 B in Hoogmoed & Gruber 1983), female, same data as lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Liophis reginae semilineatus* (Wagler, 1824) according to Costa (2002).

#### *Natrix sexcarinata* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 35

**Holotype:** ZSM 1744/0 (lost), "Habitat rarus ad flumen Amazonum" [Brazil, Rio Amazonas] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Pseustes sexcarinatus* (Wagler, 1824) according to Hoogmoed & Gruber (1983).

#### *Natrix sulphurea* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 26

**Lectotype:** ZSM 1681/0, male, "Habitat in sylvis ad littora fluminis Japura" [Brazil or Colombia, Rio Japura from its mouth (Brazil, 03°08'S, 64°66'W) to Araracuara (Colombia, 00°24'S, 72°17'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Pseustes sulphureus sulphureus* (Wagler, 1824) according to Hoogmoed & Gruber (1983).

#### *Ophis Merremii* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 47

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), "Habitat ad urbem Bahiae" [Brazil, city of Salvador (13°00'S, 38°30'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Waglerophis merremii* (Wagler, 1824) according to Hoogmoed & Gruber (1983).

#### *Philodryas affinis* Müller, 1928

Zool. Anz. 77(3/6): 77

**Holotype:** ZSM 8/1928 (lost), male, "Buenavista (80 km nw. von Sta Cruz de la Sierra), Bolivien" (original description), collected by C. Marie, 1926.

**Present name:** Regarded as junior synonym of *Philodryas viridissimus* (Linnaeus, 1758) according to Peters & Orejas-Miranda (1986).

#### *Philodryas werneri* Müller, 1926

Mitt. Zool. Mus. Berlin 12(1): 103

**Holotype:** ZSM 43/1974 (originally ZMB 16860), juvenile, "Sierra de Curumalan, Ost-Argentinien" [Buenos Aires prov., Argentina], collector and date unknown.

**Remarks:** The specimen bears several jar labels. One of them ("Philodryas argentinus Werner, Sierra de Curumalan, Ost-Argentinien. 16860" [pencil, handwritten]) cites the ZMB number given in the original description. Data on the pholidosis are given on a second small handwritten label attached to the specimen ("Squ. 17, V. 191 + 1, Sc. 115/115"). These data agree perfectly with those given for the "type" in the original description.

**Present name:** *Philodryas psammophideus* Günther, 1872, see Peters & Orejas-Miranda 1986: 244).

***Prosymna sundevalli* var. *bivittata* Werner, 1903**

Abh. K. Bayer. Akad. Wiss. II. Kl. 22: 381

**Holotype:** ZSM 1890/0 (lost), 1 specimen, "D.W. Afrika" [Namibia], collected by Kuhn, 1902.

**Present name:** *Prosymna bivittata* Werner, 1903 according to Broadley (1965).

***Psammophis sibilans* var. *hierosolimitana* Jan, 1863**

Elenco Sistematico degli Ofidi: 30

**Holotype:** ZSM 2122/0, adult, "Jérusalem" [Israel], collected by Roth, no further collection data.

**Remarks:** See Jan (1870: p. 9, pl. III [2]) for a figure of the holotype.

**Present name:** *Psammophis schokari schokari* (Forskal, 1775) according to Anderson (1896) and subsequent authors (see also Brandstätter 1996).

***Rabdosoma occipitoalbum* Jan, 1862**

Arch. Zool., Anat. Fisiol. 2: 16

**Holotype:** ZSM 1395/0 (lost), 1 specimen, "Andes de l'Ecuador, 4000 ft." (original description), "Ecuador" (card index), collected by M. Wagner, no date.

**Remarks:** After a careful examination Werner (1897) confirms that the Munich specimen is Jan's type ("Das Münchener Exemplar ist zweifellos das Originalexemplar Jan's, da es in jeder Beziehung ganz genau, bis auf Dimensionen und Schuppenformel mit der Originalbeschreibung übereinstimmt.").

**Present name:** *Atractus occipitoalbus* (Jan, 1862) (see Peters & Orejas-Miranda 1986: 32).

***Rhinodryas Königi* Werner, 1903**

Abh. K. Bayer. Akad. Wiss., II. Kl. 22: 384

**Holotype:** ZSM 2080/0, male, "Rosario in Argentinien" (original description), "Rosario da St. Fé, Argentinien" (jar label), collected by König, 1903.

**Remarks:** Type species of the genus *Rhinodryas* Werner, 1903.

**Present name:** *Philodryas baroni* Berg, 1895 (see Cei 1986).

***Spilotes microlepis* Werner, 1903**

Abh. K. Bayer. Akad. Wiss., II. Kl. 22: 346

**Syntypes:** ZSM 1677/0, 1 specimen; ZSM 1678/0 (lost), 1 specimen (head and anterior portion of body), both "Guatemala", collected by K. Sapper, 1903.

**Present name:** *Spilotes pullatus mexicanus* (Laurenti, 1768) according to Peters & Orejas-Miranda (1986).

***Telescopus fallax intermedius* Gruber, 1974**

Salamandra 10: 36

**Holotype:** ZSM 19/1972, female, "Insel Antikythira" [Greece], collected by U. Gruber, 05.04.1972.

***Tropidonotus habereri* Werner, 1903**

Abh. K. Bayer. Akad. Wiss., II. Kl. 22: 354

**Syntypes:** ZSM 31/0, male; ZSM 32/0 (lost), 2 females; ZSM 33/0 (lost), 3 juveniles; all from "Ningpo-Gebirge, China", collected by Haberer, 1900.

**Remarks:** Card index and jar label mention ZSM 31/0, the only remaining specimen of the series, as "type" (in the sense of holotype). However, we regard all specimens as syntypes, since no type or holotype has been designated in the original description.

**Present name:** *Simonatrix annularis* (Hallowell, 1856), see Zhao & Adler (1993).

***Urotheca coronata* Steindachner, 1901**

Anz. Akad. Wiss. Wien 38: 196 [abstract only]; Denkschr. K. K. Akad. Wiss., Math.-Naturwiss. Cl. 72: 106 [comprehensive description]

**Holotype:** ZSM 103/1926, adult, "Babahoyo, Ecuador", collected by Prinzessin Therese von Bayern, no date.

**Remarks:** The type was erroneously supposed to be housed in the "Vienna Museum" (= NMW) by Myers (1974: 185).

**Present name:** Synonym of *Rhadinaea lateristriga* (Berthold, 1859) according to Myers (1974: 185-189), which was later transferred to *Urotheca* (Bibron, 1843) by Savage & Crother (1989).

**Elapidae Boie, 1827**

***Elaps ehrhardti* Müller, 1926**

Zool. Anz. 65 (7/8): 198

**Holotype:** ZSM 203/1925 (incorrectly given as ZSM 140/1925 in the original description), male, "Manacapuru am Solimoëns, Brasilien", collected by W. Ehrhardt, 08.06.1925.

**Present name:** Junior synonym of *Micrurus spixi spixi* (Wagler, 1824) according to Roze (1967, 1996).

***Elaps fulvius* var. *sapperi* Werner, 1903**

Abh. K. Bayer. Akad. Wiss., II. Kl. 22: 350

**Holotype:** Uncatalogued (lost), male, "Guatemala", collected by K. Sapper, date unknown.

**Remarks:** We were unable to find this specimen in the collection or in the card index. The individual



Fig. 21. Holotype of the Neotropical coral snake *Elaps ehrhardti* Müller, 1926 (ZSM 203/1925), currently considered as a junior synonym of *Micrurus spixi spixi* (Wagler, 1824).

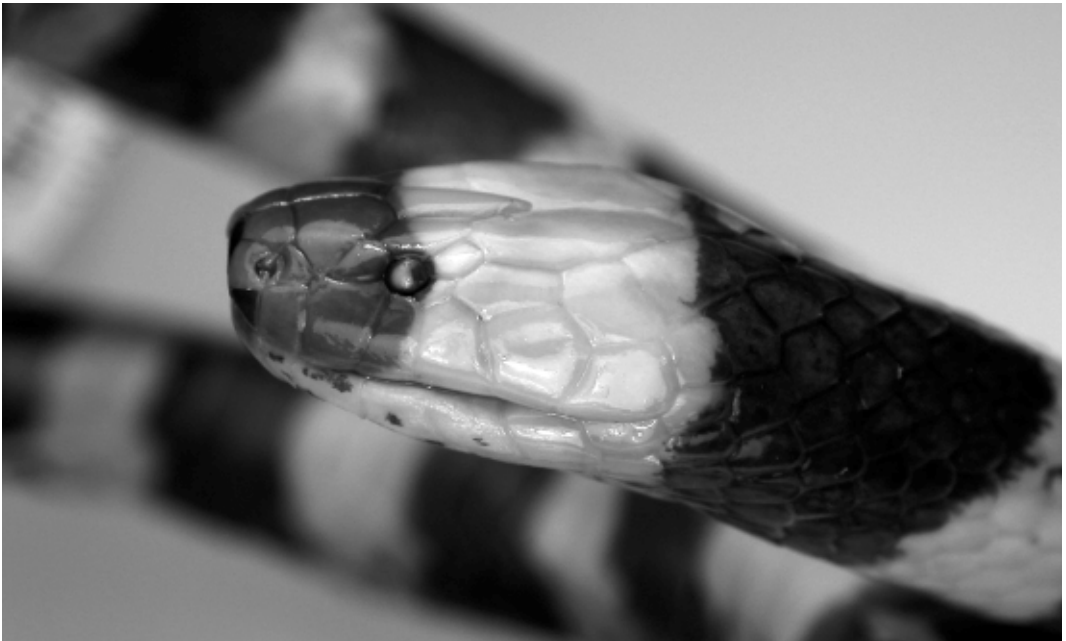


Fig. 22. Holotype of the bicolored Neotropical coral snake *Elaps hertwigii* Werner, 1897 (ZSM 2268/0), currently *Micrurus multifasciatus hertwigii*.

has most probably been catalogued under a different name and subsequently got lost (see also Schmidt 1936, p. 35). Roze (1996) stated that the holotype was destroyed during World War II.

**Present name:** *Micrurus diastema sapperi* (Werner, 1903) according to Roze (1967, 1996).

#### *Elaps hertwigii* Werner, 1897

Sitzungsber. math.-phys. Cl. k. bayer. Akad. Wiss. 27 (2): 208

**Holotype:** ZSM 2268/0, adult, “Mittelamerika”, collected by M. Wagner, no collection date.

**Remarks:** The catalogue number was incorrectly cited as “22680” by Roze (1996).

**Present name:** *Micrurus multifasciatus hertwigi* (Werner, 1897) according to Campbell & Lamar (1989) and Roze (1996).

#### *Elaps Langsdorffi* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 10

**Lectotype:** ZSM 2250/0, female, “Habitat in adjacentibus flumini Japurá” [Brazil or Colombia, Rio Japura from its mouth (Brazil, 03°08'S, 64°66'W) to Araracuara (Colombia, 00°24'S, 72°17'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Micrurus langsdorffi langsdorffi* (Wagler, 1824) according to Hoogmoed & Gruber (1983).

#### *Elaps Marcgravii* var. *ancoralis* Jan, 1872

Iconographie Générale des Ophiidiens, 42e liv.: p. 5, pl. IV, fig. 2

**Holotype:** ZSM 210/0 (lost), “Ecuador”, collected by M. Wagner (card index), no further collection data.

**Present name:** *Micrurus ancoralis ancoralis* (Jan, 1872) according to Roze (1967).

#### *Micrurus affinis stantoni* Schmidt, 1933

Zool. Ser. Field Mus. Nat. Hist. 20: 36

**Paratype** (?): ZSM 8/1922, adult, “Insel Corozal (Brit. Honduras)” [Belize], no further collection data.

**Remarks:** It is unclear if the above mentioned specimen is a paratype. Schmidt mentioned no ZSM material in the original description but one (un-numbered) specimen from the Vienna Museum (= NMW). The jar label of the ZSM specimen and the card index indicate that it was purchased from F. Werner, which was curator in the NMW at that

time. On the other hand it seems unlikely that ZSM 8/1922 is the Vienna specimen, since the latter was catalogued under the number NMW 18282 (with no further collection data) according to Tiedemann et al. (1994). Furthermore a small label is attached to the snake, which contains some scale counts and the locality data “Insel Corozal, Brit. Honduras”. The use of the German word “Insel” implicates an origin from a German speaking collector or at least a storing in a collection of a German speaking country and therefore it is unlikely that the Munich specimen is one of those from FMNH, BMNH, USNM, MNHN, MCZ, and UMMZ mentioned in the original description. The only hint that the specimen may be a paratype is a third jar label, handwritten by K. P. Schmidt, with the following text: “*Micrurus stantoni* Schmidt [MS. 1932] Paratype”.

**Present name:** *Micrurus diastema sapperi* Werner, 1903 according to Roze (1967, 1996).

#### *Micrurus ecuadorianus* Schmidt, 1936

Zool. Ser. Field Mus. Nat. Hist. 20 (19): 196

**Paratypes:** ZSM 66/1914/1-2 (given as 66-1914 in the original description), 2 males, “Guayaquil, Ecuador”, no further collection data.

**Present name:** Junior synonym of *Micrurus boucorti* (Jan, 1872) according to Roze (1996).

#### *Micrurus elegans verae-pacis* Schmidt, 1933

Zool. Ser. Field Mus. Nat. Hist. 20: 32

**Holotype:** ZSM 2247/0 (given as “2247a” in the original description) (lost), male, “Campur, Alta Vera Paz, Guatemala”, collected by K. Sapper, 1899.

**Paratypes:** ZSM 2245/0 (given as “2245” in the original description), 1 specimen, “Guatemala”, collected by K. Sapper, 1907; ZSM 2247/0 (given as “2247b” in the original description) (lost), 1 specimen, same data as holotype; ZSM 2248/0/1-3 (given as “2248” in the original description), 3 specimens, “Campur, Guatemala” collected by K. Sapper, 1899; ZSM 2249/0 (given as “2249” in the original description) (lost), 2 specimens, “Coban, Guatemala”, collected by K. Sapper, no date.

**Remarks:** According to the original description four additional paratypes in BMNH, MNHN, and NMBA.

**Present name:** *Micrurus elegans veraepacis* (Schmidt, 1933) according to Roze (1967, 1996).

#### *Micrurus latifasciatus* Schmidt, 1933

Zool. Ser. Field Mus. Nat. Hist. 20: 35

**Paratype:** ZSM 2263/0 (given as “2263” in the original description), no collection data given in the original description, “Nordamerika” [erroneous]

according to the jar label, collected by M. Wagner.  
**Remarks:** Holotype MCZ 22135; 17 additional paratypes in NMBA, SMF, MNHN, AMNH, USNM, and MCZ according to the original description.

#### *Micrurus Spixii* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 48

**Holotype:** ZSM 209/0, male, "Habitat rarus ad flumen Solimöens" [Brazil, Rio Solimões] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Micrurus spixii spixii* Wagler, 1824 according to Hoogmoed & Gruber (1983).

### Leptotyphlopidae Stejneger, 1892

#### *Stenostoma albifrons* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 68

**Holotype:** ZSM 1348/0 (lost), "Habitat rarum in adjacentibus urbis Para" [Brazil, Belém (01°26'S, 48°29'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Present name:** *Leptotyphlops albifrons* (Wagler, 1824) according to Hoogmoed & Gruber (1983).

### Typhlopidae Merrem, 1820

#### *Rhinotyphlops episcopus* Franzen & Wallach, 2002

J. Herpetol. 36(2): 177

**Paratypes:** ZSM 948/2000, male, "3 km north of Halfeti (37°16'N, 37°51'E) on road to Savasan Köyü, upper slopes of Euphrates River Valley, Sanliurfa province, southeastern Turkey, about 500 m above sea level", collected by W. Bischoff, 18.04.2000 (erroneously given as "8 April" in the original description); ZSM 949/2000 (male), ZSM 950/2000 (female), "1-2 km southeast of Halfeti, on road to Birecik (37°14'N, 37°52'E), upper slopes of Euphrates River Valley, about 500 m above sea level", collected by M. Franzen, 17.04.2000.

**Remarks:** Holotype and additional paratypes with the same collection data in ZFMK.

**Present name:** *Letheobia episcopa* according to Wallach et al. (2007), but hereby corrected to *Letheobia episcopus* since the specific name "episcopus" is a noun in apposition. See also Broadley & Wallach (2007) for the formal resurrection of *Letheobia*.

### Viperidae Oppel, 1811

#### *Bothrops furia* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 52

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), "Habitat ad flumen Amazonum" [Brazil, Rio Amazonas] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Bothrops atrox* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

#### *Bothrops leucostigma* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 53

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), "Habitat in provincia Bahiae campis sylvaticis" [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** Unclear, *Bothrops* sp. (possibly *B. moojeni*) according to Hoogmoed & Gruber (1983) or perhaps *Bothrops jararaca* (Wied-Neuwied, 1824) according to McDiarmid et al. (1999).

#### *Bothrops leucurus* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 57

**Lectotype:** ZSM 2698/0/2 (ZSMH 2698/0 B in Hoogmoed & Gruber 1983), juvenile, "Habitat in provinciae Bahiae sylvis campestribus sub arborum cortice" [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Paralectotype:** ZSM 2698/0/1 (ZSMH 2698/0 A in Hoogmoed & Gruber 1983), juvenile, same data as lectotype.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

#### *Bothrops Neuwiedi* Wagler, 1824

Serpent. Brasil. Spec. Nov.: 56

**Lectotype:** ZSM 2348/0, male, "Habitat in provincia Bahiae" [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Bothrops neuwiedi neuwiedi* Wagler, 1824 according to Hoogmoed & Gruber (1983).

***Bothrops Sururuçu* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 59

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), “Habitat non rarus in Brasiliae sylvis humidis ac densis sub arborum fronde delapsa” [Brazil] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Lachesis muta muta* (Linnaeus, 1766) according to Hoogmoed & Gruber (1983).

***Bothrops taeniatus* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 55

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), “Habitat ad flumen Amazonum” [Latin text], “dans la province de Bahia” [French text] [Brazil, Rio Amazonas (probably erroneous); former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Neotype (MNHN 1582, also holotype of *Bothrops castelnaudi* (Dumeril, Bibron & Dumeril, 1854) designated by Hoogmoed & Gruber (1983). See also these authors for a discussion of the type status.

**Present name:** *Bothriopsis taeniata* (Wagler, 1824) according to Parkinson (1999).

***Bothrops tessellatus* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 54

**Lectotype:** ZSM 2699/0, juvenile, “Habitat ad flumen St. Francisci” [Brazil, Rio São Francisco, probably near Pedras de Maria da Cruz (15°37'S, 44°23'W), near Januaria (15°29'S, 44°23'W), or near Joazeiro (09°24'S, 40°30'W)] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** Lectotype designation by Hoogmoed & Gruber (1983).

**Present name:** *Bothrops atrox* (Linnaeus, 1758) according to Hoogmoed & Gruber (1983).

***Crotalus Cascavella* Wagler, 1824**

Serpent. Brasil. Spec. Nov.: 60

**Holotype or syntypes:** Uncatalogued specimen(s) (lost), “Habitat non rarus in campis provinciae Bahiae” [Brazil, former province of Bahia, part of the present state of Bahia] according to the original description and Vanzolini (1981), collected by Spix and Martius expedition to Brazil, 1817-1820.

**Remarks:** See Hoogmoed & Gruber (1983) for discussion of the type status.

**Present name:** *Crotalus durissus cascavella* Wagler, 1824 according to Hoogmoed & Gruber (1983).

***Macrovipera lebetina cypriensis* Reuss, 1933**

Nachr.-Bl. Aquar.- Terrar. Verein 26: 372

**Lectotype:** ZSM (SLM) 3210, female, “Umgebung von Larnaka, Cypren”, received from Behringwerke, 05.1933 (card index).

**Remarks:** Lectotype designation by Krecsák (2007) who erroneously mentioned “Kisser” as the collector of the specimen.

**Present name:** *Macrovipera lebetina lebetina* (Linnaeus, 1758) according to McDiarmid et al. (1999: 384).

***Rhinaspis latastei nigricaudata* Reuss, 1933**

Nachr.-Bl. Aquar.- Terrar. Verein 8: 99

**Syntypes:** ZSM (SLM) 1809/1-2, subadult male, subadult female, “Mosqueruela b. Teruel (Ost-Spanien)” (jar label), collected by Grün, 07.1931; ZSM (SLM) 3201/1-2, two adult males, same data as ZSM (SLM) 1809, but collected 10.1932; ZSM (SLM) 4722, adult female, same data as ZSM (SLM) 1809.

**Remarks:** See also Krecsák (2007) for remarks and photograph of the type series.

**Present name:** *Vipera latastei latastei* Bosca, 1878 according to McDiarmid et al. (1999: 405) and Krecsák (2007).

***Trimeresurus fucatus* Vogel, David & Pauwels, 2004**

Zootaxa 720: 24

**Paratype:** ZSM 4/2004 (orig. PSGV 527), adult, “near Thung Song, Nakhon Si Thammarat Province, Thailand” (original description), collector unknown, no date.

***Trimeresurus venustus* Vogel, 1991**

Sauria 13(1): 23

**Paratypes:** ZSM 127/1990 (given as ZSM 127.1990 in the original description), male, “Thung Song, Provinz Nakhon Si Thammarat, Süd-Thailand”, collected by J. Krimmer, no date; ZSM 128/1990 (given



Fig. 23. Holotype of *Vipera palaestinae* Werner, 1938 (ZSM 70/1938), a large Middle Eastern viperid, currently *Daboia palaestinae*.

as ZSM 128.1990 in the original description), adult, same locality, collected by G. Vogel, 09.1989.

**Remarks:** Holotype (ZMB 48045) and six additional paratypes in ZMB and BMNH.

**Present name:** Regarded as a synonym of *Trimeresurus kanburiensis* Smith, 1943 by McDiarmid et al. (1999), but most recently resurrected from synonymy by David et al. (2004).

#### *Vipera (Pelias) berus forma punctata* Reuss, 1925

Bl. Aquar.- Terrar.-kde 8: 215

**Holotype:** ZSM (SLM) 1519 (lost), adult female, "Arnsdorf i. Sachsen" (card index), collected by T. Reuss 26.09.1924 (see Krecsák 2007).

**Present name:** *Vipera berus berus* (Linnaeus, 1758) according to McDiarmid et al. (1999).

#### *Vipera Bornmuelleri* Werner, 1898

Zool. Anz. 21 (555): 218

**Lectotype:** ZSM (SLM) 1653 (lost), adult, "Libanon, Syrien, 1800 m", collected by Bornüller, no date,

purchased from F. Werner (card index).

**Paralectotype:** ZSM (SLM) 1692 (lost), adult, "Kar Boghaz, Cilicischer Taurus, Kleinasien" (card index), collector unknown, obviously purchased in 1928 from F. Werner.

**Remarks:** Lectotype designation by Werner (1922). Mertens also (1967: 154) stated that the lectotype and a para(lecto)type were donated ("in den Besitz übergegangen") to L. Müller in November 1928, where they were later destroyed during World War II. See also remarks by Nilson & Andren (1985).

**Present name:** *Montvipera bornmuelleri* (Werner, 1898) according to Joger (2005).

#### *Vipera palaestinae* Werner, 1938

Zool. Anz. 122: 316

**Holotype:** ZSM 70/1938 (catalogue number not mentioned in the original description), adult female, "Haifa, Syrien" [Israel], collected by E. H. Taylor, 13.07.1936 (card index, jar label).

**Remarks:** Additional type material without exact data is mentioned in the original description. At least

one of these specimens (from Kelbie/Syria) is (or was) housed in the NMW collection but is not mentioned by Tiedemann et al. (1994).

**Present name:** *Daboia palaestinae* (Werner, 1938) according to Lenk et al. (2001).

***Vipera (Pelias) ursinii* forma trans. *rudolphi* Reuss, 1924**

Wochenschr. Aquar.- Terrar.-kde 25: 546

**Holotype:** Untraced, uncatalogued, possibly destroyed during WW II

**Remarks:** According to Krecsák (2007) "Reuss described this form based on a drawing by Lorenz Müller found on page 145 of a work by Gugler (1903)". Type locality is Baba Planina, Macedonia. However, there are no catalogued Balkanian *Vipera ursinii* specimens in the ZSM collected until 1903 according to ZSM card index. Therefore, the identity of the type remains unclear.

**Present name:** *Vipera ursinii macrops* according to Nilson & Andren (2001).

**Erroneously reported ZSM type specimens**

***Cyrtodactylus kotschyi adelphiensis* Beutler & Gruber, 1977**

Spixiana 1 (2): 194

**Remarks:** The original description of *Cyrtodactylus kotschyi adelphiensis* (currently *Cyrtopodion k. adelphiensis*) listed "ZSM 17 353/10-13" (1 subadult male, 1 subadult female, 2 juveniles, "Westliche der Zwei-Brüder-Inseln [Due Adelphaes] nördlich von Syrina [b. Astypalaia, Dodekanes]", collected by O. Wettstein, 29.05.1935) as paratypes. This is certainly in error, as Tiedemann et al. (1994) listed a series (1 male, 1 female, 2 juveniles) with the same collection data in the NMW catalogue under NMW 17362: 10-13. As we were unable to find any material of *C. kotschyi adelphiensis* in the ZSM collection, we regard "ZSM 17 353/10-13" as a misspelling of NMW 17362: 10-13.

***Micrurus lemniscatus diutius* Burger, 1955**

Bol. Mus. Cienc. Nat. Caracas, 1(2): 8

**Remarks:** Boos (2001) mentioned ZSM 194/1909 (1 specimen, "Aripo-Sarannals, Trinidad", coll. Othmer, 1903) as paratype of this coral snake. This is certainly in error since Burger (1955: 42-43) explicitly designated only two paratypes, i.e. UIMNH 22626 (= University of Illinois Museum of Natural History) and CM 7925 (= Museo de Ciencias, Caracas).

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