

- (1835a): Ueber *Amystes*, eine neue Gattung der Lacerten, ohne Augenlieder. – Arch. Naturges. **1** (2), 1–5.
 - (1835b): Bericht über die Fortschritte der Zoologie im Jahre 1834. Amphibien. – Arch. Naturges. **1**, 273–296.
 - (1837): Herpetologische Notizen. 1. *Amystes* Wieg. = *Ophiops* Ménétr. – Arch. Naturgesch. **3**, 123–125.
- ZHAO, E. & K. ADLER (1993): Herpetology of China. – Society for the Study of Amphibians and Reptiles, Oxford, Ohio.

Addresses of the authors: Prof. Dr. AARON M. BAUER, Biology Department, Villanova University, Villanova, Pennsylvania 19085, U.S.A., und Dr. sc. RAINER GÜNTHER, Institut für Systematische Zoologie und Zoologisches Museum, Museum für Naturkunde der Humboldt-Universität zu Berlin, Invalidenstraße 43, D-10115 Berlin.

An Annotated Type Catalogue of the Lacertids (Reptilia: Lacertidae) in the Zoological Museum, Berlin

AARON M. BAUER and RAINER GÜNTHER

Abstract. A complete catalogue is provided for the type specimens of lacertid lizards in the herpetological collection of the Zoological Museum, Berlin, as of December, 1993. The collection contains a total of 514 type specimens, representing 63 taxa, of which 42 are currently regarded as valid at the specific or subspecific level. Types representing an additional four taxa appear to have been lost from the collection. The collections are especially rich in African lacertid types and in historically significant specimens collected early in the Nineteenth Century by PALLAS, EVERS-MANN, and HEMPRICH & EHRENBERG. Also present are the type series of many subspecies of *Podarcis lilfordi* and *P. pityusensis* described by EISENTRAUT.

The lacertid type collection of the Zoological Museum, Berlin, includes a number of important older specimens stemming from the work of PALLAS and EVERS-MANN in the Russian Empire and from the journey of HEMPRICH & EHRENBERG through the Middle East in the 1820's. EVERS-MANN (1834) described four species of lacertids from Russia and the Caucasus: *L. sylvicola* (= *L. agilis exigua*), *L. praticola*, *L. saxicola*, and *L. vittata* (= *Eremias velox*). Although the types of these appear never to have been present in the ZMB collections, additional material collected by EVERS-MANN was described by LICHTENSTEIN (1823a) and the validity of EVERS-MANN's new taxa was evaluated by WIEGMANN (1835b). The material collected by HEMPRICH & EHRENBERG was described by WIEGMANN (1835a) and LICHTENSTEIN (1823b), although the plates prepared by the collectors themselves eventually appeared in 1899 accompanied by a short explanatory text by TORNIER, then the curator of the herpetological collections. Additional lacertid taxa were described from Africa and Asia by W. PETERS (1854, 1863, 1869a, b, 1870, 1874, 1878, 1881; PETERS & DORIA 1882) and from the Balearic Islands by EISENTRAUT (1928a, b, 1930). Indeed, most of the herpetologists associated with The Zoologisches Museum, Berlin described one or more lacertids represented by types in the ZMB collections, these include MATSCHIE (1893), TORNIER (1900, 1902, 1905), STERNFELD (1911, 1912), VOGT (1914), AHL (1930), HECHT (1930), and most recently G. PETERS (1958, 1964; PETERS & MUSKHELISCHWILL, 1968). The ZMB type collections were also increased by donations from WERNER (1904a, b) and SOCHUREK (KNOEPFFLER & SOCHUREK, 1956), and the exchange of type material from SCHLEGEL, BOCAGE, BLANFORD and BISCHOFF. The types of the various subspecies of the Pityusic lizard described by EISENTRAUT (1928a, b, 1930) are particularly problematic. Most of these descriptions did not explicitly designate holotypes or provide museum numbers for the specimens involved. Although the group has attracted much attention, and has been the subject of many revisionary works (e.g. EISENTRAUT 1950; BUCHHOLZ 1954; LILGE 1975; RODRIGUEZ RUIZ 1977; SALVADOR 1984), none of the reviewers has referred extensively to the types, and only one lectotype has been designated (by implication) to date.

This, along with the fact that at least some undocumented exchanges or movement of specimens between jars (and therefore between ZMB catalogue numbers) has occurred, make establishing the identity of these types extremely difficult. In this catalogue we have selected lectotypes for the remainder of EISENTRAUT's taxa of Balearic lacertids using information from the ZMB catalogues, jar labels and the descriptions themselves to support our choices.

At present, the ZMB collections include 514 type specimens of lacertids (19 holotypes, 21 lectotypes, 71 syntypes, 278 paratypes and 125 paralectotypes) representing 63 taxa, of which 42 are currently regarded as valid. The status of a number of putative type specimens remains in doubt and several types could not be located in Berlin as of 1993. These specimens are not included in the figures presented above.

The format of this catalogue follows that of earlier annotated type catalogues of the ZMB collections (BAUER & GÜNTHER, 1991 et seq.), and standardized museum abbreviation codes follow LEVITON et al. (1985). Valid current names employed in this catalogue follow ARNOLD (1989b), BISCHOFF (1990, 1991a, b, c, 1992) in general and SALVADOR (1984), BÖHME (1981, 1984, 1986) and BISCHOFF (1988) for European lacertids, ZHAO & ADLER (1993) for Far Eastern lacertids, SZCZERBAK (1974) for members of the genus *Eremias*, SALVADOR (1982) for species of *Acanthodactylus* and ARNOLD (1989a, 1991) for African lacertids.

Lacertidae

Acanthodactylus boskianus see *L[acerta] longicauda* (APPENDIX II)

Acanthodactylus dorsalis W. PETERS (1869a: 62)

Lectotype: (here designated) ZMB 1056, male; "ohne Angabe des Fundorts" [Syrien, see Remarks]; coll. F. W. HEMPRICH & C. G. EHRENBERG.

Paralectotype: ZMB 1058, male; same data as lectotype.

Present Name: *Acanthodactylus tristrami* (GÜNTHER, 1864)

Remarks: These specimens are also the types of *Lacerta platyura* HEMPRICH & EHRENBERG, 1899. PETERS (1869a) did not know the locality or collector(s) of the type series, and the specimens appear in the ZMB specimen catalogue without this information. TORNIER (in HEMPRICH & EHRENBERG 1899) identified one of the types of *Acanthodactylus dorsalis* as the animal illustrated in figure 3 of plate II in the Reptilia section of *Symbolae Physicae* (HEMPRICH & EHRENBERG 1899) and labelled therein as *L[acerta] platyura*. Thus the collectors and localities of the types of *A. dorsalis* have been established as indicated in the type data provided above. TORNIER (in HEMPRICH & EHRENBERG 1899) also noted that *A. dorsalis* was a junior subjective synonym of *A. tristrami* (GÜNTHER, 1864). Because the first published use of the name *Lacerta platyura* was as a synonym of *Acanthodactylus tristrami* it is unavailable under article 11e of the Code of Zoological Nomenclature. Another syntype (formerly ZMB 1057) was traded to SMF in 1925 (fide ZMB specimen catalogue), but was not listed by MERTENS (1967) in the SMF type catalogue. All three of these types had been examined by BOULENGER (1921). SALVADOR (1982) listed ZMB 1056–8 as syntypes, but the ZMB jar label lists ZMB 1056 as the lectotype, apparently because this was the animal depicted in HEMPRICH & EHRENBERG (1899). On this basis we here formally regard this specimen as the lectotype.

Acanthodactylus micropholis BLANFORD (1874: 33)

Syntype: ZMB 9333; Zamran, Baluchistan [Pakistan]; don. W. T. BLANFORD.

Remarks: The published type locality is "Gedrosia (Baluchistán) [Pakistan]". Fourteen specimens apparently constituted the original type series of this species (BOULENGER 1921). Other syntypes include

BMNH 1946.9.3.71–72 (formerly 74.11.23.76–77) from Magas, Baluchistan, BMNH 74.11.23.78 from Bampur, Baluchistan, and BMNH 74.11.23.79 from Rigan, Narmashir, Iran. None of these specimens, however, could be located in the BMNH type cabinet during a recent search (fide S. C. ANDERSON, pers. comm.). SALVADOR (1982) did not mention the ZMB type in his review of this taxon.

Acanthodactylus pardalis see *L[acerta] Pardalis*

Acanthodactylus tristrami see *Acanthodactylus dorsalis*

Adolfus africanus see *Adolfus fridericianus* (APPENDIX I)

Adolfus fridericianus see APPENDIX I

Adolfus vauereselli see *Lacerta vauereselli*

Algyroides fitzingeri see *Notoph[olis] fitzingeri*

A[mystes] Ehrenbergii WIEGMANN (1835a: 5)

Syntypes: ZMB 1050, 2 specimens; 1051, 2 specimens; 1052; 1053, 2 specimens; 1054, 2 specimens, 52687 (formerly 1052 [part]); "Syria"; coll. F. W. HEMPRICH & C. G. EHRENBERG.

Present Name: *Ophisops elegans ehrenbergii* (WIEGMANN, 1835) fide BISCHOFF (1991c)

Remarks: LICHTENSTEIN (1856) listed a total of nine specimens from "Syrien". WIEGMANN (1835a) listed *Lacerta nudipes* (a HEMPRICH & EHRENBERG manuscript name) and *Lacerta aspersa* (a SCHULTZE manuscript name and ZMB shelf name) as synonyms. WIEGMANN (1837) himself was the first to recognize the synonymy of this name with *Ophisops elegans*.

Eremias argus W. PETERS (1869a: 61; pl., fig. 3)

Lectotype: (designated by SZCZERBAK 1974), ZMB 4532, male; "Chefoo [= Yantai Shi, Shandong] ([People's Republic of] China)"; coll. SCHOTTMÜLLER.

Paralectotypes: ZMB 50585, 50587–8 (all formerly ZMB 4532 [part]); same data as lectotype.

Eremias arguta see *Lacerta arguta* (APPENDIX II)

Eremias arguta deserti see *Lacerta variabilis* (APPENDIX II)

Eremias benguellensis see APPENDIX I

Eremias Brenneri W. PETERS (1869b: 432)

Holotype: ZMB 6443; "Barava im Somalilande" [= Brava, Somalia]; coll. R. BRENNER.

Present Name: *Pseuderemias brenneri* (PETERS, 1869)

Eremias Brenneri var. *striatus* W. PETERS (1874: 370)

Syntypes: ZMB 8120, 2 specimens; 39143; "Barawa" [= Brava, Somalia]; coll. J. M. HILDEBRANDT.

Present Name: *Pseuderemias striatus* (PETERS, 1874)

***Eremias breviceps* STERNFELD (1911: 404)**

Holotype: ZMB 23445, female; "Walfish-Bay" [Namibia]; collector unknown.

Present Name: *Pedioplanis breviceps* (STERNFELD, 1911)

Remarks: The published description indicates that the collector was unknown, although the specimen jar label gives SCHMIDT as the collector or donor.

***Eremias fasciata* BLANFORD (1874: 32)**

Lectotype: (designated by SZCZERBAK 1974) ZMB 9329, adult male; "Karman" [= Ker-
man, Iran]; coll./don. W. T. BLANFORD.

Remarks: The published type description states "in Persia meridionali, haud procul ab urbe Karman et in Gedrosia haud frequens" and implies the existence of several specimens in the type series. Paralectotypes include BMNH 1946.8.7.57–59 (formerly 74.11.23.35–37) and BMNH 1946.8.7.34–35 (formerly 1917.3.6.25–26) from Sir-I-Tam and Seidabad (SZCZERBAK, 1974; S. C. ANDERSON, pers. comm.), all of which were examined by BOULENGER (1921) in his account of this taxon.

Eremias grammica see *Lacerta grammica*

Eremias Holubi see APPENDIX II

Eremias intermedia see *Podarces (Eremias) intermedia*

Eremias neumanni see APPENDIX I

***Eremias persica* BLANFORD (1874: 31, pl. 26, fig. 1)**

Paralectotype: ZMB 9327, adult male; Kerman [Iran]; coll./don. W. T. BLANFORD.

Remarks: The lectotype (designated by SZCZERBAK 1974) is BMNH 1946.8.7.32 (formerly BMNH 74.11.23.30), a male from "near Ispahan" [Iran]. Other paralectotypes are BMNH 1946.8.7.21–23 (formerly 74.11.23.32), 1946.8.7.33 (formerly 74.11.23.31), 1946.8.7.42–43 (formerly 74.11.23.28–29), and 1917.3.6.21–22. TIEDEMANN & HÄUPL (1980) listed NMW 23377 as a syntype, but this specimen was purchased from GERRARD in 1883 and therefore cannot be part of the type series.

***Eremias rugiceps* W. PETERS (1878: 202; pl. 2, fig. 1)**

Syntypes: ZMB 9287, 7 specimens; "Taita" [Kenya]; coll. J. M. HILDEBRANDT.

Present Name: *Heliobolus spekii* (GÜNTHER, 1872)

***Eremias serripes* W. PETERS (1870: 659)**

Lectotype: (here designated) ZMB 6151, male; Damaraland [Namibia] (by implication); coll. J. A. WAHLBERG, 1854.

Present Name: *Meroles reticulatus* (BOCAGE, 1867) fide BOULENGER (1921)

Remarks: A specimen from WAHLBERG's collection in Stockholm, NRM 1998, is a paralectotype.

***Eremias siebenrocki* TORNIER (1905: 386)**

Holotype: ZMB 17954; "Porto Novo an der Sklavenküste" [Benin]; coll. KRAUSS.

Present Name: *Latastia siebenrocki* (TORNIER, 1905)

Remarks: This specimen is not indicated as a type in the ZMB catalogue, but clearly is the specimen upon which TORNIER's description is based.

***Eremias suborbitalis* W. PETERS (1870: 658)**

Lectotype: (here designated) ZMB 6150; Damaraland [Namibia] (by implication); coll./don. J. A. WAHLBERG.

Present Name: *Meroles suborbitalis* (PETERS, 1869)

Remarks: Paralectotypes are present in the Swedish Museum of Natural History. These include six specimens under catalogue number NRM 2039 and one under NRM 1935. The latter specimen is apparently that upon which PETERS based his description of *Eremias suborbitalis* "Var."

Eremias velox see *Lacerta leucosticta*, *Lacerta velox* (APPENDIX II) and *Lacerta vittata* (APPENDIX II)

Gallotia atlantica see *Lacerta atlantica*

***Gastropholis lutzei* TORNIER (1900: 591, fig. B)**

Holotype: ZMB 15801, female; "Tanga" [Tanzania]; coll. MARTIENSSEN.

Present Name: *Gastropholis vittata* FISCHER, 1886.

***Gastropholis prasina* WERNER (1904b: 462)**

Holotype: ZMB 18087, male; "Deutsch-Ostafrika"; coll. G. KLEEBOG; don. F. WERNER.

Remarks: BOULENGER (1921) gave the type locality as "Usambara" and ARNOLD (1989a) suggested "probably Tanga" [Tanzania].

Gastropholis vittata* see *Gastropholis lutzei

Heliobolus neumanni see *Eremias Neumanni* (APPENDIX I)

Heliobolus spekii see *Eremias rugiceps*

***Ichnotropis bivittata* BOCAGE (166: 43)**

Syntype: ZMB 5827; "Duque de Bragança" [Angola]; coll. Sr. BAYAO; don. J. V. BARBOZA du BOCAGE.

Remarks: The original description mentions "varios exemplares", of which ZMB 5827 appears to be one. It is assumed that any syntypes in Lisbon were destroyed by fire in 1975.

Ichnotropis capensis see *Ichnotropis macrolepidot[a]*

***Ichnotropis macrolepidot[a]* W. PETERS (1854: 617)**

Syntype: ZMB 6123, 2 specimens; "Lourenço Marques" [= Maputo, Mozambique]; coll. W. PETERS.

Present Name: *Ichnotropis capensis* (SMITH, 1838)

Remarks: PETERS (1854) did not specify the number of specimens in the type series, but only two specimens were listed by LICHTENSTEIN (1856). The specific epithet was originally published as *macrolepidota* but was subsequently corrected to *macrolepidota* (PETERS 1855).

Ichnotropis squamulosa W. PETERS (1854: 617)

Syntypes: ZMB 6614, 4 specimens; 6616, 4 specimens; "Tette" [Mozambique]; coll. W. PETERS.

Remarks: The jar label for ZMB 6542 bears an asterisk, indicating type status, but the locality data, "Cafferland Storlberg", suggests that this is not a member of the type series. ZMB 6616 originally included five specimens. According to BOULENGER (1921), PETERS sent a specimen of the species to Paris. This may be the missing specimen, although BRYGOO (1988) did not indicate the existence of any types of this taxon in the MNHN collection.

Lacerta agilis brevicaudata G. PETERS (1958: 127, figs. 1, 5a–e, 6)

Paratypes: ZMB 37889, 29 specimens; "Chaussee Sewan-Achta, Armenien"; coll. G. PETERS, 7. 6. and 4. 7. 1956; ZMB 37890, 13 specimens; "Aparan, Armenien"; coll. G. PETERS, 12. 7. 1956; ZMB 37891, 5 specimens; "Stepanawan, Armenien"; coll. G. PETERS, 26. 6. 1956; ZMB 37892, 96 specimens; "Spitak, Armenien"; coll. G. PETERS, 23. 6., 27. 6. and 30. 7. 1956; ZMB 37893, 42 specimens; "Kirowakan, Armenien"; coll. G. PETERS; 20.–22. 6. 1956; ZMB 37894, 17 specimens; "Spitak, Armenien"; coll. I. S. DAREVSKI; 25. 9. 1956.

Remarks: The holotype is ZIL 12900. Additional paratypes are 80 specimens in the ZIL collection, and ZFMK 8762-3 (formerly ZMB 37892). BÖHME & BISCHOFF (1984) also mentioned the existence of paratypes in Magdeburg and TIEDEMANN & HÄUPL (1980) also regarded NMW 16471: 1–6, collected by G. PETERS at "Sewan am Sewan-See" as paratypes.

Lacerta agilis var. *dilepis* LICHTENSTEIN (1856: 14)

Syntype: ZMB 911, 49520 (formerly also ZMB 911); "Kirgisensteppe" [Kazakhstan]; coll. C. G. EHRENBERG.

Present Name: *Lacerta agilis exigua* EICHWALD, 1831 fide BOULENGER (1921).

Remarks: The authorship of this and other names first proposed in the *Nomenclator Reptilium et Amphibiorum Musei Zoologici Berlinensis* remains problematic. In previous type catalogues (e.g. BAUER & GÜNTHER 1991) we have attributed authorship to LICHTENSTEIN alone, following many other authors. Other authors (e.g. HARRIS & KLUGE 1984) have assigned names from the *Nomenclator* to LICHTENSTEIN & VON MARTENS. PETERS (1882), however, referred to WEINLAND & VON MARTENS as the authors of the publication. The issue of authorship will be examined in greater detail in a subsequent publication.

Lacerta agilis exigua see *L[acerta] agilis* var. *dilepis*

Lacerta agilis ioriensis G. PETERS & MUSKHELISCHWILI (1968: 213, figs. 1–3)

Paratypes: ZMB 39273; "Tianeti-am Iori-Fluß, N. Georgien"; coll. T. A. MUSKHELISCHWILI; 19.–23. 7. 1966, ZMB 39274; same data as ZMB 39273; ZMB 39275; same locality and collector as above; 23./25. 8. 1965; ZMB 39276, 15 specimens; same data as ZMB 39273.

Remarks: The holotype, also from Tianeti, Georgia, is in the Grusinian Academy of Science, Tbilisi, Georgia (ZIT). Additional paratypes include ZFMK 8766–7 (formerly ZMB 39276), BMNH 1973.3422–3423 (formerly ZMB 39276) and specimens in the ZIT and MM (58 paratypes in total). The four of the paratypes missing from the original 22 in Berlin are accounted for by exchanges to other institutions.

Lacerta arguta see APPENDIX II

Lacerta atlantica PETERS & DORIA (1882: 433; 4 unnumbered text figs.)

Syntype: ZMB 10289; "Arrecife nell'Isola di Lanzerote . . . S.^{ta} Crux nell'isola di Teneriffa [Canary Islands, Spain]; coll. L. FEA (Crociera dely Yacht «Corsaro»); 5 Aug. 1882; don. G. DORIA.

Present Name: *Gallotia atlantica* (PETERS & DORIA, 1882)

Remarks: MSNG 10116 is the other syntype (fide CAPOCACCIA 1961).

Lacerta atrata columbretensis EISENTRAUT (1930: 406; figs. 1d, 2d, 3d)

Holotype: ZMB 36076; "Columbrete major (= grande), größte Insel der Columbretes" [Balearic Islands, Spain]; all coll. M. EISENTRAUT; III. 1930.

Paratypes: 36077; 36098, 7 specimens; 52800 (formerly 36076 [part]); 52831–7 (formerly 36077 [part]); same data as holotype "Columbrete major (= grande), größte Insel der Columbretes" [Balearic Islands, Spain]; all coll. M. EISENTRAUT; III. 1930.

Present Name: *Podarcis hispanica atrata* (BOSCÁ, 1916)

Remarks: The description mentioned 25 specimens and measurements were given for four. Although the holotype was not identified by catalogue number in the description, the measurements of the type, a male, 69 mm SVL with regenerated tail (112 mm) match those of ZMB 36076. Two specimens originally catalogued as part of ZMB 36098 were exchanged to SMF. The whereabouts of the remaining six specimens of the original type series are unknown.

Lacerta atrata mancolibrensis EISENTRAUT (1930: 407)

Holotype: ZMB 36074; "Isla Mancolibre, bei Columbrete (Columbretes) [Balearic Islands, Spain]; coll. M. EISENTRAUT; 17. III. 1930.

Paratypes: ZMB 36075; 52844–6 (formerly 36075 [part]); same data as holotype.

Present Name: *Podarcis hispanica atrata* (BOSCÁ, 1916)

Remarks: No catalogue number is provided for the holotype in the description, but only ZMB 36074 is marked as a type in the ZMB catalogue and its measurements match those provided by EISENTRAUT for the type.

Lacerta carinata W. PETERS (1874: 368; pl., fig. 1)

Holotype: ZMB 8028; "Barawa" [= Brava, Somalia]; coll. J. M. HILDEBRANDT.

Present Name: *Latastica carinata* (PETERS, 1874)

Remarks: The pelvic region of the type is badly damaged.

Lacerta derjugini boehmei BISCHOFF (1982: 46, fig. 20C)

Paratypes: ZMB 42313–4, adult males; "Sotschi" [Russia]; coll. L. SASSENBURG.

Remarks: The holotype is MTKD 14626 from "Achun-Berg bei Sotschi/UdSSR". Other paratypes are ZFMK 14738–9, 17797, MM Rp 600a–b, 623a–r, 624a–s, 627a–b, 630a–c, MTKD 9644–46, 9648–51, 9654–5, 9657, 9777–80, 9782; 14627–42, 14788–92, USNM 226667–9, 226672 (formerly MTKD 9643; 9647, 9652 and 9781), and AMNH (formerly MTKD 9642, 9653).

Lacerta grammica LICHTENSTEIN (1823a: 140)

Lectotype: (designated by SZCZERBAK 1974) ZMB 1095, subadult female; Caracum [Turkmenistan]; coll. E. EVERSMAAN.

Paralectotypes: ZMB 1094; Caracum [Turkmenistan]; coll. E. EVERSMAAN, ZMB 1096; Kisilkum [Uzbekistan]; coll. E. EVERSMAAN.

Present Name: *Eremias grammica* (LICHTENSTEIN, 1823)

Remarks: The type description gives the distribution of this taxon as "in dem ganzen Strich östlich vom Aralsee, besonders häufig im Karakum und Kisilkum" (the localities given above are derived from the jar labels associated with the specimens). The number of types in the original series is not given in the description, but LICHTENSTEIN (1856) mentioned three specimens of this taxon in the ZMB collection from Kisilkum. Neither ZMB 1094 nor 1096 could be located by SZCZERBAK (1974). Although we could not locate the former, the latter specimen, a large female, was found. NMW 17244 from Turkestan, purchased from ZMB, was regarded by TIEDEMANN & HÄUPL (1980) as a syntype. If indeed part of the original series, this specimen would be a second paralectotype.

ZHAO & ADLER (1993) erroneously attributed the description to LICHTENSTEIN's paper of later in the same year (1823b). Their citation of the original type localities is also in error.

L[acerta] guttulata LICHTENSTEIN (1823b: 101)

Syntypes: ZMB 1117–1120; Ägypten; 1121, 2 specimens; Nubien; ZMB 1122, 2 specimens; Suez; 1962; Sinai, all collected by F. W. HEMPRICH & C. G. EHRENBERG.

Present Name: *Mesalina guttulata* (LICHTENSTEIN, 1823)

Remarks: The published statement of type locality is "Aegypt. et Nubia". ZMB 1117 originally consisted of two specimens. Only one is now present in Berlin. BMNH 1946.8.7.76–77 are additional syntypes obtained through exchange with ZMB. These specimens subsequently served as the types of *Scapteira punctulata* GRAY, 1838 (although this name was not associated with any specific type locality). LICHTENSTEIN (1856) listed eight specimens from "Aegypten" and "Nubien".

Lacerta leucosticta LICHTENSTEIN (1823a: 142)

Syntypes: ZMB 1105, 2 specimens; 1107; Tartarei [Kazakhstan]; coll. E. EVERSMAAN.

Present Name: *Eremias velox* (PALLAS, 1771)

Remarks: The original locality statement is "kam in derselben Strecke wie die vorige zum Vorschein" referring to the locality of *Lacerta variabilis* [= *Eremias arguta deserti*] for which the locality "zwischen den Mugosarskischen Bergen und dem östlichen Ufer des Aralsees" [Kazakhstan] is given. Both ZMB 1105 and 1107 are marked on their jar labels as types of *L. leucosticta*. The intervening numbered specimen, ZMB 1106, is not marked as a type and the oldest notation on its jar label reads "*E. coeruleo-ocellata*". SZCZERBAK (1974) considered *L. leucosticta* as a junior synonym of *Lacerta arguta* PALLAS, 1773. Our examination, however, supports the interpretation that the name belongs in the synonymy of *E. velox* PALLAS, 1771. This is borne out by SZCZERBAK's (1974) assignment of *Lacerta vittata* to the synonymy of *E. velox*, given his belief that ZMB 1105 and 1107, were referable to this taxon.

Lacerta lilfordi addayae EISENTRAUT (1928 a: 122)

Lectotype: (here designated) ZMB 36069; "Größere der 2 Addaya-Inseln, Ost Küste Menorkas" [Balearic Islands, Spain]; coll. M. EISENTRAUT; VI. 1928.

Paralectotype: ZMB 36070; 36071; 52787 (formerly 36070 [part]); same data as lectotype.

Present Name: *Podarcis lilfordi addayae* (EISENTRAUT, 1928)

Remarks: The original description mentions eight specimens from the larger of the Addaya Islands and three from the smaller. The whereabouts of the remaining seven members of the original series are unknown. ZMB 36069 is selected as the lectotype as it is the only member of the type series explicitly marked as a type in the ZMB catalogue.

Lacerta lilfordi canensis EISENTRAUT (1928b: 466)

Lectotype: (here designated) ZMB 35984; "Island Caná, an der Ostseite der Insel Ibiza, nördlich der Insel St. Eulalia" [Balearic Islands, Spain]; M. EISENTRAUT, 23. VII. 1928.

Paralectotype: ZMB 35986; same locality and collector as lectotype; VII. 1928.

Present Name: *Podarcis pityusensis canensis* (EISENTRAUT, 1928)

Remarks: The ZMB catalogue lists ZMB 35984 as the holotype and ZMB 35985–7 as paratypes. However, no such distinction among syntypes was made in the published description and only ZMB 35986 of the "paratypes" listed in the ZMB catalogue was collected prior to the publication of the description. The original type series consisted of three specimens. We were unable to locate a third lizard with the appropriate locality and collection date and therefore regard the third syntype of the series as lost and perhaps never formally catalogued.

Lacerta lilfordi espardellensis EISENTRAUT (1928a: 123)

Lectotype: (here designated) ZMB 35965; "Isla Espardell, östl. der Isla Espalmador, zwischen Ibiza und Formentera" [Balearic Islands, Spain]; coll. M. EISENTRAUT; VII. 1928.

Paralectotypes: ZMB 35966, 35968; same data as lectotype.

Present Name: *Podarcis pityusensis formenterae* (EISENTRAUT, 1928)

Remarks: Five specimens were mentioned in the description, but only three collected prior to the description could be located in the ZMB collection. Of these specimens, only ZMB 35965 is explicitly marked in the ZMB catalogue and on the jar label as a type. We chose this specimen as the lectotype.

Lacerta lilfordi fenni EISENTRAUT (1928a: 122)

Lectotype: (here designated) ZMB 36062; "Isla Nidge (Sa Nidga, Isla del Porros) an der Nordküste von Menorka, Cabo Caveleria vorgelagert" [Balearic Islands; Spain]; coll. M. EISENTRAUT; VII. 1928.

Paralectotypes: ZMB 36063; 52788–91 (formerly 36063 [part]); same data as lectotype.

Present Name: *Podarcis lilfordi fenni* (EISENTRAUT, 1928)

Remarks: A total of eight specimens were mentioned in the type description. The whereabouts of the two specimens not located in the ZMB collection is unknown.

Lacerta lilfordi formenterae EISENTRAUT (1928a: 123)

Lectotype: (here designated) ZMB 35979; "Formentera" [Balearic Islands, Spain]; coll. M. EISENTRAUT; VII. 1928.

Paralectotypes: ZMB 35978; 52867–72 (formerly 35978 [part]) [see Remarks]; same locality and collector as lectotype; 25. VII. 1928.

Present Name: *Podarcis pityusensis formenterae* (EISENTRAUT, 1928)

Remarks: Three specimens are mentioned in the description. ZMB 35979 is certainly one of these, and is marked as a type in the ZMB catalogue. The jar label and catalogue indicate that ZMB 35978 includes the only other Berlin specimens collected on Formentera prior to the publication of the description. Unfortunately there are currently seven specimens in the jar bearing the label 35978. It is possible that specimens originally catalogued under ZMB 35977 (currently four specimens) were mistakenly placed into the ZMB 35978 jar at some point. Any specimens correctly associated with ZMB 35977 cannot be types, as these were collected on 23. IV. 1930. Because of the uncertainty as to which of the ZMB 35978 specimens are types, we designate ZMB 35979 as the lectotype. This is also the only number indicated as a type in the ZMB catalogue. The name *Lacerta lilfordi formenterae* was also proposed by MÜLLER (1928a) for the same taxon shortly after EISENTRAUT's description. The holotype associated with MÜLLER's *L. l. formenterae* is ZSM 1631.

Lacerta lilfordi frailensis EISENTRAUT (1928b: 467)

Lectotype: (here designated) ZMB 36024; "Isla del Fraile, dem Westzipfel der Insel Esparto an der Westküste Ibizas vorgelagert"; coll. K. GRÜN; don. M. EISENTRAUT; X. 1928.

Paralectotypes: ZMB 36027; 36028; 52802–8 (formerly 36028 [part]); 52856–7 (formerly 36027 [part]); same data as lectotype.

Present Name: *Podarcis pityusensis frailensis* (EISENTRAUT, 1928)

Remarks: The description mentions 14 specimens in the type series, however, only 12 with the appropriate locality and collection date could be located in the ZMB collection. The type description gives measurements only for the largest specimen, ZMB 36024, which we here designate as the lectotype. MÜLLER (1928b) also proposed the name *Lacerta lilfordi frailensis* for specimens referable to this taxon, designating a specimen in the collection at München as the holotype.

Lacerta lilfordi gastabiensis EISENTRAUT (1928a: 123)

Lectotype: (here designated) ZMB 35964; "Isla Gastabi (eine der vielen Inseln zwischen Ibiza und Formentera, südwestl. von Espalmador)" [Balearic Islands, Spain]; coll. M. EISENTRAUT; VII. 1928.

Paralectotypes: ZMB 32299; 52792 (formerly 32299 [part]); same data as lectotype.

Present Name: *Podarcis pityusensis gastabiensis* (EISENTRAUT, 1928)

Remarks: The largest male specimen, ZMB 35964, is here selected as the lectotype.

Lacerta lilfordi gorrae EISENTRAUT (1928a: 122)

Lectotype: (here designated): 36019; "Isla Bleda Gorra (Bleda Porros). Dritte Insel der drei größeren Bledas. (Reihenfolge: Plana-Bosque-Gorra)" [Balearic Islands, Spain]; coll. M. EISENTRAUT; 20. VII. 1928.

Paralectotypes: ZMB 32202, 2 specimens; 36020; 36021; 36022; 52780–1 (formerly 36021 [part]); 52801 (formerly 36020 [part]); 52821–9 (formerly 32201 [part]); 52847–50 (formerly 36022 [part]); same locality and collector as lectotype; VII. 1928.

Present Name: *Podarcis pityusensis gorrae* (EISENTRAUT, 1928)

Remarks: The original description mentions 37 specimens. Twenty-two of these could be located in Berlin in 1993: Another nine specimens of this taxon are housed under ZMB 36023, but these were supposedly collected in 1929, too late to have been part of the original series.

Lacerta lilfordi grisea (EISENTRAUT (1928a: 122)

Lectotype: (here designated) ZMB 35971; "Isla Trocados, nördlich von Formentera" [Balearic Islands, Spain]; coll. M. EISENTRAUT, VII. 1928.

Paralectotype: ZMB 35972; same data as lectotype.

Present Name: *Podarcis lilfordi grueni* (L. MÜLLER, 1928)

Remarks: Although the type description provides no distinction between the types, ZMB 35971, chosen here as the lectotype, is contained in a jar with a type designation on its label. EISENTRAUT (1928b) himself noted that his name : *L. lilfordi grisea* was preoccupied and that *L. l. grueni*. L. MÜLLER, 1928 was the next available name for this taxon.

Lacerta lilfordi hospitalis EISENTRAUT (1928: 121)

Lectotype: (here designated) ZMB 36060; "Isla del Hospital (Isla del Rey) im Hafen von Mahón, Menorka" [Balearic Islands, Spain]; coll. M. EISENTRAUT; VI. 1928.

Paralectotypes: ZMB 36061; 52851–4 (formerly 36061 [part]); same data as lectotype.

Present Name: *Podarcis lilfordi balearica* (BEDRIAGA, 1879)

Remarks: The specimens present in Berlin form the complete type series of this taxon. The specimen here selected as the lectotype is explicitly marked as a type on its jar label.

Lacerta lilfordi intermedia EISENTRAUT (1928a: 123)

Lectotype: (here designated) ZMB 35958; "Isla Negra, westl. von Ahorcados, zwischen Ibiza und Formentera" [Balearic Islands, Spain]; coll. M. EISENTRAUT; VII. 1928.

Paralectotypes: ZMB 32281; 35960; 52841–3 (formerly 32281 [part]); same data as lectotype (but see Remarks).

Present Name: *Podarcis pityusensis negrae* (EISENTRAUT, 1928)

Remarks: Six specimens were mentioned in the type description, but none were explicitly designated by catalogue number. Of the types listed above, ZMB 32281 is not accompanied by a collection date (but the jar label bears a clear type indication). ZMB 35960 is not marked as a type on the jar label, but with ZMB 35958 constitute the only ZMB specimens other than ZMB 32281 that were collected before the publication of the species description. EISENTRAUT (1928b) recognized that this name was preoccupied and proposed the replacement name *Lacerta lilfordi negrae*.

Lacerta lilfordi miguelensis EISENTRAUT (1928b: 467)

Lectotype: (here designated) ZMB 36004; "Isla del Bosque de San Miguel, an der Nordküste Ibizas in der Bucht von San Miguel gelegen" [Balearic Islands, Spain]; coll. K. GRÜN; don. M. EISENTRAUT, X. 1928.

Paralectotypes: ZMB 36005; 36006; 52855 (formerly 36005 [part]); 52861–6 (formerly 36006 [part]); same data as lectotype.

Present Name: *Podarcis pityusensis pityusensis* (BOSCÁ, 1883)

Remarks: The type description mentions 14 specimens, of which only 10 could be located in the ZMB collection in 1993. Of these, only ZMB 36004 bears an indication of type status in the ZMB catalogue and on the jar label. We therefore select this specimen as the lectotype.

Lacerta lilfordi mülleri EISENTRAUT (1928a: 124)

Lectotype: (designated by implication by SALVADOR, 1979) ZMB 36042, male; Cabrera; M. EISENTRAUT, VIII. 1928.

Paralectotypes: ZMB 36046; 52786 (formerly 36046 [part]); same data as lectotype.

Present Name: *Podarcis lilfordi kuligae* (MÜLLER, 1927)

Remarks: The description mentions four specimens. SALVADOR (1979) referred to ZMB 36042 as the holotype, although the description makes no distinction among the four specimens examined. Elsewhere, in his synonymy of *Lacerta lilfordi kuligae*, SALVADOR (1979) likewise mentions only that there are four syntypes. The published type locality is "Cabrera mit Ausnahme der Leuchtturmhalbinsel" [Balearic Islands, Spain]. No designations in the ZMB catalogues or on the jar labels clearly established which specimens constitute the remaining types (now paralectotypes). ZMB 36043–5 (five specimens total) were examined by SALVADOR (1979), but originate from the lighthouse peninsula of Cabrera and cannot, therefore, be part of the type series. Of extant ZMB specimens, only ZMB 36046 and 52786 appear to have been collected at the correct time and place to be candidates.

Lacerta lilfordi muradae EISENTRAUT (1928a: 122)

Lectotype: (here designated) ZMB 35997; "Isla Murada an der Westküste von Ibiza, nördlich der Isla Margarita" [Balearic Islands, Spain]; coll. M. EISENTRAUT; VII. 1928.

Paralectotypes: ZMB 35998; 35999; 36001; 36002; 36003; 52793–9 (formerly 36003 [part]); 52809–15 (formerly 36001 [part]); 52816–20 (formerly 35999 [part]); 52830 (formerly 35998 [part]); 52868–9 (formerly 36002 [part]); same data as lectotype.

Present Name: *Podarcis pityusensis muradae* (EISENTRAUT, 1928)

Remarks: The original description mentions 38 specimens. Twenty-eight of these were located in the ZMB collection in 1993. ZMB 36000 (6 specimens) appears not to be part of the type series as the collection data associated with the specimens is 1929. Only ZMB 35997, designated here as the lectotype, is marked as a type in the ZMB catalogue.

Lacerta lilfordi negrae EISENTRAUT (1928b: 468)

Present Name: *Podarcis pityusensis negrae* (EISENTRAUT, 1928)

Remarks: A replacement name for *L. l. intermedia* (EISENTRAUT, 1928a)

Lacerta lilfordi ratae EISENTRAUT (1928b: 466)

Lectotype: (here designated) ZMB 35951; "Isla Ratas, südwestlich vom Hafen von Ibiza"; M. EISENTRAUT; VII. 1928 (see Remarks).

Paralectotypes: ZMB 32272; 35949; same data as lectotype (see Remarks).

Present Name: *Podarcis pityusensis ratae* (EISENTRAUT, 1928)

Remarks: Both ZMB 32272 and 35951 are marked as types in the ZMB catalogue. ZMB 35949, although not marked as a type, is the only other specimen of this taxon collected prior to the subspecies description, which mentions a total of three specimens. Only ZMB 35949 is accompanied by a specific collecting date (17. VII. 1928). ZMB 35951 was collected sometime during July 1928 and ZMB 32272 was entered into the ZMB catalogue with no data of collection. In the description measurements were given only for the largest specimen. These match the dimension of ZMB 35951, which is here designated as the lectotype.

Lacerta lilfordi redonae EISENTRAUT (1929a: 123)

Lectotype: ZMB 35980; "Isla Redona, östl. von St. Eulalia, Ibiza" [Balearic Islands, Spain]; coll. M. EISENTRAUT; VII. 1928.

Paralectotypes: ZMB 32200; 35981, 35982; 52838–40 (formerly 35982 [part]); 52860 (formerly 35981 [part]); same data as lectotype.

Present Name: *Podarcis pityusensis redonae* (EISENTRAUT, 1928)

Remarks: Nine specimens were mentioned in the description, of which eight have been located in Berlin. Of these ZMB 35980 and 32200 are marked as "types" and ZMB 32281 (including ZMB 52860) is marked as a "cotype". ZMB 35983 (4 specimens) has the same collector and locality as the types, but the specimens were collected on 20. IX. 1929 and cannot, therefore be part of the type series.

Lacerta lilfordi sargantanae EISENTRAUT (1928: 465)

Lectotype: (here designated) ZMB 52784 (formerly 36067 [part]); "Isla Sarganta, im Hafen von Fornells an der Nordküste Menorcas"; M. EISENTRAUT, VI. 1928.

Paralectotypes: ZMB 36067, 36068; 52782, 52783, 52785 (formerly 36067 [part]); same data as lectotype.

Present Name: *Podarcis lilfordi sargantanae* (EISENTRAUT, 1928)

Remarks: The type description mentioned eight specimens. The six mentioned above appear to be among these, however, the remaining two specimens could not be located. No holotype was designated in the description, although measurements were provided for one specimen only. These match the dimensions of ZMB 52784, which we here designate as the lectotype.

L[acerta] longicauda see APPENDIX II

Lacerta media israelica see *Lacerta trilineata israelica*

Lacerta muralis occidentalis KNOEPFFLER & SOCHUREK (1956: 150)

Paratypes: ZMB 37594–7; "Felsufer am Oberlauf des Tetflusses in etwa 2000 Meter Seehöhe, Pyrenees Orientales, Frankreich", coll. E. SOCHUREK.

Present Name: *Podarcis muralis muralis* (LAURENTI, 1768)

Remarks: MERTENS & WERMUTH (1960) and TIEDEMANN & HÄUPL (1980) cited the description of this taxon as KNOEPFFLER & SOCHUREK 1956, *Lacerta* 14:36. This seems to be in reference to a paper by SOCHUREK (1956) alone mentioning the new taxon. The description itself, however, seems to have appeared first in *Aquarium und Terrarium*, as indicated by SOCHUREK (1956). The holotype is NMW 15205 and other paratypes are NMW 15206: 1–3 (TIEDEMANN & HÄUPL 1980).

Lacerta oertzeni WERNER (1904a: 258)

Syntype: ZMB 13495; Marathokambos aus Sambos [Greece]; coll. E. von OERTZEN; Jun. 1887.

Remarks: The type locality is given as "Rhodus, Nikaria usw." [Greece]. According to WERNER (1904a) and BOULENGER (1920), the description was based on BOETTGER's (1888) Rhodes, Samos and Nicaria specimens of *L. danfordi*. Although WERNER (1904a) mentioned no individual specimens explicitly, he did state that the description was based on material in Berlin and in the Senckenberg Museum, Frankfurt am Main. BOULENGER (1920) stated that the figure of *L. oertzeni* in SCHREIBER (1912) was of one of the types. SCHREIBER (1912) thanked the Senckenberg Museum for the loan of material examined, but neither of the published type catalogues of that collection (MERTENS 1922, 1967) lists type material of this taxon. It thus appears that ZMB 13495 is one of the syntypes of this taxon and that the remainder of the syntype series is in the SMF collection. The Berlin specimen was located in the collection labeled as a paratype of "*Lacerta anatolica aegaea*".

L[acerta] Pardalis LICHTENSTEIN (1823b: 99)

Syntypes: ZMB 1072–1076; 1077, 2 specimens; "Aegyptus"; F. W. HEMPRICH & C. G. EHRENBURG.

Present Name: *Acanthodactylus pardalis* (LICHTENSTEIN, 1823)

Remarks: The type series was examined by BOULENGER (1921) and its existence in Berlin was confirmed by SALVADOR (1982). LICHTENSTEIN (1856) listed eight specimens (as *Acanthodactylus Savignyi*) from "Aegypten" and "Oran". The Egyptian material would appear to be the types of *L. pardalis*, whereas that from Oran represents true *A. savignyi*. TORNIER (in HEMPRICH & EHRENBURG 1899) reported that the ZMB collection held five specimens of this species collected by HEMPRICH & EHRENBURG. The discrepancy in specimen number cannot be accounted for, but we regard all seven specimens listed above as syntypes. Both catalogue and jar label data confirm that all were collected by HEMPRICH & EHRENBURG in Egypt and that they first entered the collection marked as *Lacerta* (or *Acanthodactylus*) *pardalis*.

LICHTENSTEIN (1823: 99) listed *L. variabilis* PALLAS (= *Eremias arguta deserti* [GMELIN, 1789] as a synonym, in part, of this taxon. This is probably based on LICHTENSTEIN's assumption that ZMB 1060 (see *Lacerta arguta* account) was indeed one of the types of *Lacerta arguta*. This, in turn, suggests that this specimen (an *Acanthodactylus*) was entered into the ZMB collection as *Lacerta arguta* in the early 1820's, or that the mislabeling of the specimen occurred between the time that RUDOLPHI presented it to the Museum in 1820 and the publication of LICHTENSTEIN's (1823b) description of *L. pardalis*.

Lacerta pityusensis ahorcadosi EISENTRAUT (1930: 399)

Holotype: ZMB 35955, male; "Ahorcados" [Balearic Islands, Spain]; coll. M. EISENTRAUT; 7. III. 1930.

Paratypes: ZMB 35954, 2 specimens; VII. 1928; ZMB 35956, 9 specimens; V. 1930; ZMB 35957, 15 specimens; 7. III. 1930; locality and collector as for holotype.

Present Name: *Podarcis pityusensis ahorcadosi* (EISENTRAUT, 1930)

Remarks: EISENTRAUT (1930) mentioned four specimens of this taxon collected in the summer of 1928 and another 26 obtained in 1930. We were able to locate two and 25 of these respectively. ZMB 35955 is marked as the type (= holotype) in the ZMB catalogue and on the jar label. Measurements for this individual are provided in the description for this specimen as "Typus". Measurements for three other individuals are also provided, although it appears if all of the specimens mentioned were intended as part of the type series.

L[acerta] platyura see *Acanthodactylus dorsalis*

L[acerta] rubropunctata LICHTENSTEIN (1823b: 100)

Syntypes: ZMB 1115; Ägypten; 1116, 2 specimens; Ägypten; 1113, 2 specimens, Nubien, 1114, 3 specimens; Suez; 1127; Suez; F. W. HEMPRICH & C. G. EHRENBURG.

Present Name: *Mesalina rubropunctata* (LICHTENSTEIN, 1823)

Remarks: The published type locality is "Aegy. et Nubia" and a measurement of 5 1/2" is given. LICHTENSTEIN (1856) listed eight specimens from these localities.

Lacerta spinalis W. PETERS (1874: 369; pl., fig. 2)

Holotype: ZMB 7633, male; "angeblich aus Bogos" [Eritrea]; GERHARD; purchased.

Present Name: *Philochortus spinalis* (PETERS, 1874)

Lacerta tachydromoides SCHLEGEL in TEMMINCK & SCHLEGEL (1838: 101; pl. 1, figs. 5–7)

Syntypes: ZMB 1046, 3 specimens; Japan; don. H. Schlegel.

Present Name: *Takydromus tachydromoides* (SCHLEGEL, 1838)

Remarks: These are the same three specimens indicated by LICHTENSTEIN (1856). Additional syntypes are MNHN 2264, 2264a (BRYGOO 1988). It appears likely that the ZMB specimens are part of the type series as SCHLEGEL is known to have sent representative material from the *Fauna Japonica* to Berlin (HOOGMOED 1978). BOULENGER (1921) mentioned a female (BMNH 1946.9.4.1, formerly BMNH v. 17a) from Kiusiu received from Leiden and assumed by him to be a member of the type series.

Lacerta trilineata israelica G. PETERS (164: 244; figs. 23–25)

Paratypes: ZMB 39134 (formerly TAU R1791); Ramat-Hadassa [Israel]; 28. IV. 55; ZMB 39135 (formerly TAU R1073); Ramat-Hadassa [Israel]; 2. 4. 52; ZMB 39136 (formerly TAU R1420); Jebel Jarmaq. NE Safad [Israel]; 12. X. 53; ZMB 39137 (formerly TAU R10778); Ramat-Hadassa [Israel]; 6. IV. 52; all specimens don. H. MENDELSSOHN.

Present Name: *Lacerta media israelica* G. PETERS, 1964

Remarks: The holotype is TAU R990 from Jerusalem. Other paratypes are TAU 1079, 1081–2, 1094, 1096, 4313, 4588, BMNH 64.8.23.66–7, 64.8.23.139 (4 specimens), 64.8.23.1–2, SMF 43574, 43882, 45042, 56430, and MNHN 6040 and 8975. An additional TAU specimen was listed by PETERS as "R16 . . . (?)".

Lacerta variabilis see APPENDIX II

Lacerta vauereselli (TORNIER 1902: 701)

Holotype: ZMB 17700; "Urwald zwischen Kagera und Congo" [Tanzania, fide ARNOLD 1989]; coll. Graf GOETZEN.

Present Name: *Adolfus vauereselli* (TOURNIER, 1902)

Lacerta velox see APPENDIX II

Lacerta viridis brandenburgiensis HECHT (1930: 62)

Holotype: ZMB 32718; "Oderberg (Mark Brandenburg)" [Germany]; coll. H. BISCHOFF, Sommer, 1928.

Paratypes: ZMB 32469; 32719; same data as holotype.

Present Name: *Lacerta viridis viridis* (LAURENTI, 1768)

Remarks: The jar label of ZMB 32719 indicated the specimen's type status, whereas that of ZMB 32469 is without such indication. The catalogue entries for these specimens are marked as "Cotype II" and "Cotype I", respectively. The description mentioned 12 specimens in the Berlin collection plus five living specimens. The whereabouts of the remaining specimens has not been established.

Lacerta viridis viridis see *Lacerta viridis brandenburgiensis*

Lacerta vittata see APPENDIX II

Latastia carinata see *Lacerta carinata*

Latastia siebenrocki see *Eremias siebenrocki*

Meroles reticulatus see *Eremias serripes* and see *Scapteira reticulata* (APPENDIX I)

Meroles suborbitalis see *Eremias suborbitalis*

Mesalina rubropunctata see *L[acerta] rubropunctata*

Mesalina guttulata see *L[acerta] guttulata*

Notoph[olis] fitzingeri WIEGMANN (1834: 10)

Syntypes: ZMB 910; 3 specimens; "Sardinia" [Italy]; F. DAHL.

Present Name: *Algyroides fitzingeri* (WIEGMANN, 1834)

Remarks: The three syntypes were mentioned by LICHTENSTEIN (1856). Both the specimen jar labels and LICHTENSTEIN (1856), however, list the locality for these specimens as "Corsica".

Nucras boulengeri see *Nucras kilosae* (APPENDIX II)

Nucras boulengeri kilosae see *Nucras kilosae* (APPENDIX II)

Nucras kilosae see APPENDIX II

Nucras taeniolata ornata see *Eremias Holubi* (APPENDIX II)

Ophisops elegans see *A[mystes] Ehrenbergii*

Pedioplanis benguellensis see *Eremias benguellensis* (APPENDIX I)

Pedioplanis breviceps see *Eremias breviceps*

Philochortus neumanni MATSCHIE (1893: 30)

Holotype: ZMB 11 148, female; "Scadi bei Lahadsch [Lahij?]" [Yemen]; coll. O. NEUMANN.

Philochortus spinalis see *Lacerta spinalis*

Platyplacopus kuehnei see *Tachydromus chinensis* (APPENDIX I)

Podarces (Eremias) intermedia STRAUCH (1876: 28)

Paralectotype: ZMB 8753; Kisilkum; coll. LEMAN, don. A. STRAUCH.

Present Name: *Eremias intermedia* (STRAUCH, 1876)

Remarks: The lectotype (designated by SZCZERBAK 1974) is ZIL 3664. The original type locality is "in deserto aralo-caspico". Other paralectotypes are ZIL 3657, 3661, 3663 and MNHN 5689 (exchanged from STRAUCH in 1876). BMNH 1946.8.7.47-48 (formerly BMNH 85.11.30.1-2), regarded by the British Museum as types (S. C. ANDERSON, pers. comm.), were obtained from St. Petersburg, but were not included by SZCZERBAK (1974) in his review of the type material of this species. SZCZERBAK (1974) incorrectly listed the Berlin paralectotype as ZMB 8752. VOROBYEVA et al. (1986) cited the publication data of STRAUCH's work as 1883. ZHAO & ADLER (1993), however, confirm 1876 as the correct date. This species was described in a footnote to a key to the genus *Podarces* on page 27 of the same publication.

Podarces hispanica atrata see *Lacerta atrata columbretensis* and *Lacerta atrata mancolibrensis*

Podarces lilfordi addyae see *Lacerta lilfordi addyae*

Podarces lilfordi balearica see *Lacerta lilfordi hospitalis*

Podarces lilfordi fenni see *Lacerta lilfordi fenni*

Podarces lilfordi grueni see *Lacerta lilfordi grisea*

Podarces lilfordi kuligae see *Lacerta lilfordi mülleri*

Podarces muralis muralis see *Lacerta muralis occidentalis*

Podarces pityusensis ahorcadosi see *Lacerta pityusensis ahorcadosi*

Podarces pityusensis canensis see *Lacerta lilfordi canensis*

Podarces pityusensis formenterae see *Lacerta lilfordi espardellensis* and *Lacerta lilfordi formenterae*

Podarces pityusensis frailensis see *Lacerta lilfordi frailensis*

Podarces pityusensis gastabiensis see *Lacerta lilfordi gastabiensis*

Podarces pityusensis gorrae see *Lacerta lilfordi gorrae*

Podarces pityusensis muradae see *Lacerta lilfordi muradae*

Podarces pityusensis negrae see *Lacerta lilfordi intermedia* and *Lacerta lilfordi negrae*

Podarces pityusensis pityusensis see *Lacerta lilfordi miguelensis*

Podarces pityusensis ratae see *Lacerta lilfordi ratae*

Podarces pityusensis redonae see *Lacerta lilfordi redonae*

Podarces lilfordi sargantanae see *Lacerta lilfordi sargantanae*

Pseuderemias brenneri see *Eremias Brenneri*

Pseuderemias striatus see *Eremias Brenneri* var. *striatus*

Scapteira reticulata see APPENDIX I

Tachydromus amurensis W. PETERS (1881: 71)

Holotype: ZMB 9869, female; "Kissakewitsch" [= Kossakewitcha on the Amur River, Russia]; purch. UMLAUFF.

Present Name: *Tachydromus amurensis* (PETERS, 1881)

Tachydromus chinensis VOGT (1914: 98)

Holotype: ZMB 24096; "Norden der Provinz Kuangtung" [Guangdong Province, China]; coll. R. MELL.

Present Name: *Takydromus kuehnei* VAN DENBURGH, 1909 fide ARNOLD (1989a); *Platyplacopus kuehnei* VAN DENBURGH, 1909 fide ZHAO & ADLER (1993).

Remarks: The ZMB catalogue lists the locality of the specimen as "Tsha-yinshan, N. Kuangtung". We could not locate this specimen in 1993.

Tachydromus kwangsiensis AHL (1930: 327)

Holotype: ZMB 34033, female: Kwangsi [China] (by implication); coll./don. S. S. SHIN; 1928–1929 (see Remarks).

Present Name: *Takydromus sexlineatus ocellatus* (GUÉRIN-MÉNEVILLE, 1829)

Remarks: The data accompanying the specimen itself is "Yaoshan [= Dayao Shan], Kwang-Si [= Guangxi Zhuang Autonomous Region], China". MELL (1930) and FAN (1931) provided additional details regarding the collection described by AHL (1930). In addition to the Berlin type, 16 specimens were placed in the collection of Sun Yatsen University. All specimens were collected during the period December 1928 to June 1929 near the village of Loshiang. FAN (1931) recorded the collector/donor's name as SIN rather than SHIN.

Tachydromus sexlineatus var. *aenofuscus* W. PETERS (1863: 405)

Holotype: ZMB 4534; "Bangkok" [Thailand]; K. E. VON MARTENS

Present Name: *Takydromus sexlineatus sexlineatus* DAUDIN, 1802

Takydromus amurensis see *Tachydromus amurensis*

Tachydromus kuehnei see *Tachydromus chinensis*

Tachydromus sexlineatus sexlineatus see *Tachydromus sexlineatus* var. *aenofuscus*

Tachydromus sexlineatus ocellatus see *Tachydromus kwangsiensis*

Tachydromus tachydromoides see *Lacerta tachydromoides*

APPENDIX I

Lost and Destroyed ZMB Lacertid Types

Adolfus fridericianus STERNFELD (1912: 220, text figs. 1, 2b)

Holotype: ZMB 24121; "Awakubi" (am oberen Aruwimi) [Zaire]; coll./don. H. SCHUBOTZ.

Present Name: *Adolfus africanus* (BOULENGER, 1906).

Remarks: This specimen was reported as missing by G. PETERS (in ARNOLD 1989a) and could not be located during the preparation of the present type catalogue.

Eremias benguellensis BOCAGE (1867a: 229)

Syntype: (?) ZMB 7762; Maconjo [Angola]; don. J. V. BARBOZA DU BOCAGE.

Present Name: *Pedioplanis benguellensis* (BOCAGE, 1867)

Remarks: The published description gives the type locality as "Benguella" [Angola], and provides no indication of the number of specimens in the type series, although measurements are given only for a single individual. The ZMB catalogue indicates that a specimen was received from BOCAGE and that it is a member of the type series. The locality "Maconjo" could not be located, although there are several similar place names in Angola. None of these are near the town of Benguella, but this name was used more generally in the Nineteenth Century to refer to the southern regions of Angola. We regard ZMB 7762 as a putative syntype. If the specimen is eventually located it may be possible to confirm its type status.

Eremias neumanni TORNIER (1905: 376)

Holotype: ZMB 18356; "Barssa-Tal im Malé-Land"; O. NEUMANN; 22. 1. 1901.

Present Name: *Heliobolus neumanni* (TORNIER, 1905)

Remarks: The type specimen could not be located in the ZMB collection in 1993.

Scapteira (?) *reticulata* BOCAGE (1867b: 225)

Syntype: ZMB 6475; Benguella; coll. M. d'ANCHIETA; don. J. V. BARBOZA DU BOCAGE.

Present Name: *Meroles reticulatus* (BOCAGE, 1867)

Remarks: BOULENGER (1921) confirmed that one of the original type series of this species was in Berlin. This specimen could not be located in the ZMB collections in 1993. The original published type locality is "Mossamedes, Western Africa" and the type series consisted of five individuals. BOCAGE (1897) provided the more specific locality of "Rio Coroca" [= Rio Curoca] for the Lisbon types of this taxon. It is assumed that other members of the series were destroyed by the 1975 fire in the Lisbon Museum.

APPENDIX II

Lacertid Types Erroneously Reported to be in the ZMB Collection

Eremias Holubi STEINDACHNER (1882: 83; plate)

Present Name: *Nucras taeniolata holubi* (STEINDACHNER, 1882)

Remarks: ZMB 9872, bearing the data „östl. Cap Kolonie; coll. E. HOLUB; 1880" was entered into the ZMB collection as a type and its jar label is marked as such. All true types appear to be in the collection of the Naturhistorisches Museum Wien. NMW 19056 was designated as the lectotype of this species by BROADLEY (1972). Other paralectotypes are NMW 19057: 1–3 and NMW 19058 (TIEDEMANN & HÄUPL 1980). The type description mentions four specimens with the locality "im Thale des Krokodil- oder Limpopo-Flusses" in the Transvaal. The five specimens in Wien therefore seem to include at least one specimen that was not part of the original type series and, as the description indicates that the four types were sent by HOLUB to Wien, it is highly unlikely that the ZMB specimen is a types of any kind. As HOLUB also collected in the area of Port Elizabeth (STEINDACHNER 1882), it is likely that the Berlin specimen originated from that area of the eastern Cape.

Lacerta arguta PALLAS (1773: 718)

Present Name: *Eremias arguta* (PALLAS, 1773)

Remarks: SZCZERBAK (1974) reviewed the complicated history and status of the supposed ZMB types of this taxon. Of the two located specimens reported as collected by PALLAS in "Sibirien" [Russia] and subsequently presented to RUDOLPHI, one, ZMB 1060 is an *Acanthodactylus*. SZCZERBAK (1974) identified this as *A. variabilis*, although we reexamined the specimen and regard it as more closely allied to the North African members of the genus. The other specimen supposedly collected by PALLAS is ZMB 1102. As indicated by SZCZERBAK (1974), the specimen is an *Eremias arguta deserti*. SZCZERBAK (1974) suggested that the specimen had perhaps been exchanged with a *Lacerta variabilis* from "Tartarei" at some point in the past (see also *Lacerta variabilis* account). SZCZERBAK (1974) thus regarded the types as being lost and designated ZIL 13205 as the neotype. The neotype was chosen with respect to the route actually taken by PALLAS in his travels and was derived from West Kazakhstan, in the Kok-Dzhida sand massif on the Temir River. Another specimen, ZMB 1061, probably also part of the syntype series of *Lacerta arguta*, was not mentioned by SZCZERBAK (1974). This specimen could not be located in Berlin in 1993.

Lacerta cappadocica WERNER (1902: 1086)

Remarks: ZMB 18071 from Dumbellek, Cilicien (Turkey) was donated to the Zoological Museum by Franz WERNER and is listed as a type in the ZMB catalogue. The description, however, refers to only two specimens, a female from "Erdschias-Gebiet" and a female from "Buldur". It therefore seems unlikely that the Berlin specimen was part of the original syntype series.

L[acerta] longicauda HEMPRICH & EHRENBERG (1899: 3, pl. 1, fig. 5)

Remarks: This manuscript name was first published as a synonym of *Acanthodactylus boskianus* (DAUDIN 1802). TORNIER (in HEMPRICH & EHRENBERG 1899) reported that there were 14 specimens of this taxon collected by F. W. HEMPRICH & G. C. EHRENBERG. These presumably were the animals upon which the figure and description, had one ever been published, would have been based. Because the first use of the name *Lacerta longicauda* was as a synonym it is unavailable under article 11e of the Code of Zoological Nomenclature.

Lacerta variabilis PALLAS (1811: 31)

Type: ZMB 1102; Sibirien; coll. P. S. PALLAS; don. K. A. RUDOLPHI. Also ZMB 1098–1101; Tartarei; EVERSMAANN

Present Name: *Eremias arguta deserti* (GMELIN, 1789)

Remarks: The published locality for this species is "In deserto Tatariae magna totius a mari caspio usque ad Obum" [Kazakhstan]. The date of publication of this work has long been a subject of debate. SVETOVIDOV (1976) provided the most detailed evaluation of the subject. The text for volumes I and II of this work was printed in 1811, while that for volume III was completed in 1814. Because of delays in the printing of plates, the work was not actually finished and published in its entirety until 1831. STRESEMANN (1951) favored a date of 1827, that associated with the general public availability of the text. As reported by SVETOVIDOV (1976), however, the International Commission on Zoological Nomenclature has determined that the text printing dates of 1811 and 1814 are the correct dates for the work.

PALLAS (1811) listed in his synonymy of this species *L. arguta*, *L. ocellata*, *L. velox* and *L. deserti*. SZCZERBAK (1974) interpreted *Lacerta variabilis* as a replacement for the last of these names and reviewed the history of the specimens associated with this name. ZMB 1102 bears the locality "Sibirien" and was supposedly given to RUDOLPHI by PALLAS. This specimen is referable to *Eremias arguta deserti* and may indeed be one of the specimens collected by PALLAS. However, as per Article 72e of the International Code of Zoological Nomenclature (1985), the type of the replacement name *L. variabilis*

must be identical with that of the name, it was proposed to replace. Thus, ZMB 1102, cannot be a type specimen of this taxon. Alternatively, ZMB 1102, may have been switched from another jar at some point in the past (SZCZERBAK 1974), accounting for the association of the incorrect locality "Sibirien" with this specimen. Likewise, the other purported PALLAS lacertid, ZMB 1060 can also be ruled out as a type of this form (see *Lacerta arguta* account). The remaining older ZMB specimens marked as *Lacerta variabilis* are ZMB 1097, 1099 (originally 2 specimens), 1100 and 1101 (originally 2 specimens), presently represented by a total of four animals, all in a single jar, and ZMB 1098. All of these specimens were collected much later, by EVERSMAANN and derive from "Tartarei". It thus appears that the types of this taxon are not present in Berlin. The original description refers to figures 5 and 6 on plate 5, but this plate was never published.

Lacerta velox PALLAS (1771: 457)

Present Name: *Eremias velox* (PALLAS, 1771)

Remarks: The types of this species are apparently not present in the ZMB collection. SZCZERBAK (1974) discussed the Berlin specimens formerly regarded as types of this species. As he indicated the specimens in question were collected long after the description of *L. velox*. SZCZERBAK (1974) interpreted these specimens to be the types of *Lacerta vittata* EVERSMAANN, 1834 (see account under this species), although we regard these as the types of *Lacerta leucosticta* LICHTENSTEIN, 1823. The neotype of *Lacerta velox* is ZIL 16233, designated by SZCZERBAK (1974).

Lacerta vittata EVERSMAANN (1834: 358; pl. 31, fig. 4)

Present Name: *Eremias velox* (PALLAS, 1771)

Remarks: SZCZERBAK (1974) listed ZMB 1105 (2 specimens) and 1107 (1 specimen) as types associated with this name. In fact, these specimens appear to be the types of *Lacerta leucosticta* LICHTENSTEIN, 1823 (see account for this taxon). The description of *E. vittata* lists measurements for only two specimens, from the "Caucasus", that were not collected by EVERSMAANN himself. EVERSMAANN further stated "So viel ich mich erinnere, so habe ich dieselbe Eidechse auch auf meiner Bucharischen Reise in den südlicheren Gegenden der Kirgisischen Steppen gesehen". Thus it would appear that the types of this taxon should bear the type locality "Caucasus" and that, since no specific individuals from EVERSMAANN's journey to Buchara seem to have been collected, none of specimens presently in the ZMB collection are likely to represent type material. The potential candidate specimens are ZMB 1106 ("Kirgisen Steppe"); ZMB 1108, 1109 (2 specimens), 1110 (3 specimens) and 1111–1112 (all "Tartarei"), all collected by E. EVERSMAANN. The oldest indications on the labels of ZMB 1108–1112 read "*Eremias velox* Pall. jun. *Lac. vittata* Eversm.", whereas that associated with ZMB 1106 reads "*E. coeruleo-ocellata*".

Nucras kilosae LOVERIDGE (1922: 314)

Present Name: *Nucras boulengeri* NEUMANN, 1900 fide BROADLEY in BROADLEY & HOWELL (1991); *Nucras boulengeri kilosae* LOVERIDGE 1922 fide BISCHOFF (1991c).

Remarks: ZMB 29823 (formerly MCZ 18598), a male from "Tindiga, Kilosa [Tanganyika Territory = Tanzania]" collected by A. LOVERIDGE, 1. VIII. 1922, is listed in the ZMB catalogue as a topotype and as such has no formal standing. The MCZ catalogue confirms that specimens catalogued as MCZ 18598 were topotypes rather than syntypes. This specimen could not be located in Berlin in 1993. BROADLEY in BROADLEY & HOWELL (1991) reported that he had examined the "cotypes" of this taxon in London. BARBOUR & LOVERIDGE (1929) listed MCZ 18298 (skull) and MCZ 18592 as paratypes and the original description indicates that there were seven syntypes in the original series. In addition to the two MCZ specimens, two specimens were donated to the British Museum, one to the American Museum and two were in the LOVERIDGE Collection. All of these specimens originated from "Tindiga, 5 miles south of Kilosa, Morogoro Dist., T. T."

Acknowledgements

We thank JOSÉ ROSADO (MCZ) and JENS VINDUM (CAS) for providing useful data and literature for the completion of this type catalogue. ERIK ÅHLANDER (NRM) provided data regarding type material in the collection of the Swedish Museum of Natural History. NATALIA ANANJEVA and NIKOLAY ORLOV (Zoological Institute, Russian Academy of Sciences) provided information regarding the publications of A. STRAUCH. The senior author thanks the Biology Department, Villanova University and the American Philosophical Society for financial support for travel to Berlin to work on this and related projects.

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