

THE HERPETOLOGICAL TYPE SPECIMENS OF THE MUSEUM ZOOLOGICUM BOGORIENSE COLLECTION

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ABSTRACT.— An annotated checklist of the herpetological type specimens of the Museum Zoologicum Bogoriense is presented. A total of 28 holotypes, three syntypes and 176 paratypes (representing 59 specific and/or subspecific names) are housed in the MZB collection. A number of types representing six forms are at present temporarily located in European and Australian museums. Two paratypes (of *Tropidonophis multiscutellatus*) are destroyed and three others missing. Two holotypes (of *Typhlops soensis* and *Emydura branderhosti*) are considered missing. The holotype of *Leucocephalon yuwonoi* did not arrive at the MZB collection and is destroyed. Nonetheless, MZB is one of the largest repository of herpetological types among the museums in south-east Asia.

KEYWORDS.— Catalogue, Amphibians, reptiles, type specimen, Museum Zoologicum Bogoriense, Cibinong, Indonesia.

INTRODUCTION

Some of the zoological type specimens in the Museum Zoologicum Bogoriense (MZB), Research and Development Centre for Biology, Indonesian Institute of Sciences have been published (Somadikarta et al., 1964, 1965, 1966, 1968, 1970). The collection was started in the year 1894, and served at that time as temporary depository for material destined for museums in the Netherlands, particularly in Leiden and Amsterdam. For this reason, a number of types cannot be found, although the original description clearly specified that the types will be deposited in the MZB collection. Despite lacking an eminent herpetologist for nearly 40 years, the collection still harbours many historical specimens associated with the work of Ouwens, de Rooij and van Kampen, as well as those from Kopstein and de Jong. The oldest herpetological specimen is a *Meristogenys kinabaluensis* deposited just after the museum was built and probably resulted from an exchange with ZRC (Hanitsch, 1900). De Rooij visited New Guinea, although her work covered all Indonesian reptiles, based on mu-

seum collections from all over the world. However, van Kampen apparently never visited Indonesia. Hence few specimens in the MZB collection actually collected by de Rooij (i.e., *Tribolonotus novaeguineae*) and none by van Kampen. At present, the MZB collection can be considered the largest and most complete collection in the world for amphibians of Sumatra, Java, and Sulawesi, as well as Borneo, especially in the representation of species but not in the number of specimens. Unfortunately the reptile collection is not as comprehensive as the amphibians. During the period 1976-1978, the first author worked at this institution, tracing and making a list of all herpetological type specimens. This work is has now been completed with the addition of types acquired recently. In addition, we also include some type specimens, which were previously in the MZB collection, but are known to have been sent to several institutions, either for examination or long-term loan after World War II, but for some reason, were never returned. In cases where more information is needed, a complete list of the amphibian and

snake types for south-east Asia can be consulted (Iskandar and Colijn, 2000, 2002).

In recent years, the progress of collections all over the world, including Indonesia has become more controlled by local legislation. On one hand, the species-rich Third World nations are pressured by those in the First World to preserve biodiversity. On the other, many leading scientists and museums still obtain specimens illegally, either through field collections or from the herpetocultural trade. According to the Indonesian regulation, imposed in 1970 by the Indonesian Institute of Sciences as the only authoritative institution, holotypes and about 40-50% of all recent collection including paratypes should be shared with Indonesian government institutions. This regulation was enforced later by Presidential Decree No. 100/1993, chapter 2.2, which stipulates that all foreigner who wish to conduct research in Indonesia must have a written permit, issued by the head of Indonesian Institute of Sciences. This decree implied by a new regulation issued by the Indonesian Institute of Sciences, also stipulates that every holotype and 50% of other specimens including the paratypes should be deposited in an Indonesian government institution. As some unauthorized collections are being made and illegal trade cannot be stopped, several leading museums retain specimens collected during or after 1993.

In the present catalogue, the original designation of the species is mentioned in the first row. The current valid name will follow the original description name, if different compared to the original combination. Only the holotype or syntypes are mentioned in each species, whether it is deposited in MZB or not. Paratypes are only mentioned for the MZB specimens.

Abbreviations of systematic institutions are as follows:

AMNH: American Museum of Natural History, New York

AMS: Australian Museum, Sydney

FMNH: Field Museum of Natural History, Chicago

MCZ: Museum of Comparative Zoology, Harvard University, Cambridge, MA

MZB: Museum Zoologicum Bogoriense, Bogor

RMNH: Nationaal Natuurhistorisch Museum, Leiden (formerly Rijksmuseum van Natuurlijke Histoire, Leiden), the Netherlands

SMF: Forschungsinstitut und Natur-Museum, Senckenberg, Frankfurt am Main

UF: Florida State Museum, Gainesville

UPNG: University of Papua New Guinea, Port Moresby

ZRC: Raffles Museum of Biodiversity Research, National University of Singapore, Singapore

WAM: Western Australian Museum, Perth

ZFMK: Zoologische Forschungsinstitut und Museum König, Bonn

ZIP: Zoological Institute, St. Petersburg

ZMA: Zoologisch Museum, Amsterdam

ZMB: Zoologische Museum, Universität Humboldt, Berlin

LIST OF HERPETOLOGICAL TYPES

Class: Amphibia

Order: Anura

Family: Bombinatoriidae

Genus: *Barbourula* Taylor & Noble, 1924

Barbourula kalimantanensis Iskandar, 1978.

Holotype.- MZB Amph. 2330, 1 ex., adult male, Nangah Sayan, Pinoh River, 33 km South of Nangah Pinoh, West Kalimantan at about 100 m asl., by S. Wirjoatmodjo and T.R. Roberts - Smithsonian Exp. coll, 1976.

Note.- Up to present, only two specimens, one of each sex, are known. The second specimen is in ZRC (Iskandar, 1995).

Family: Bufonidae

Genus: *Bufo* Laurenti, 1768

Bufo kumquat Das & Lim, 2001

(Holotype.- ZRC 1.3137 from 0.63 km from 35 km point on Sungai besar Tanjung Malim Road, Sabak Bernam, North Selangor, Malaysia, by K. K. P. Lim, on 18-IX-1992).

Paratype.- MZB Amph. 4374 (ex. ZRC 1.3584) 1 ex, adult male, from north Selangor, Malaysia, by H. H. Tan, on 18-IX-1992.

Family: Limnodynastidae (Myobatrachidae)

Genus: *Limnodynastes* Fitzinger, 1843

Phanerotis novae-guineae van Kampen, 1909

Current status.- *Limnodynastes convexiusculus* (Macleay, 1877)

Syntype.- MZB Amph. 223 (ex. 353), 1 ex., sex undetermined, south-west Papua (formerly Irian Jaya), by J. W. R. Koch, on 19-I-1905.

Note.- Originally, MZB had all the specimens, but our catalogue note that one of them was exchanged with the MCZ (on behalf of E. H. Taylor in 1923) and another with E. H. Taylor's private collection on the same occasion. The specimen from the E. H. Taylor collection is now in FMNH. Daan and Hillenius (1966) stated that one of the syntype is in their collection, one probably in MCZ (that exchanged by E. H. Taylor in 1923). One other is in AMS (Cogger, et al., 1983), and the two other specimens unknown. Therefore, the repository of all specimens (five), originally used to describe this form are now known.

Family: Microhylidae

Subfamily: Asterophryinae

Genus: *Hylophorbus* Macleay, 1898

Hylophorbus sextus Günther, 2001

Holotype.- MZB Amph. 6918, from Headwater of Wapoga river, Papua (3° 08' 87"S and 136° 34' 423"E) Wapoga Alpha Exploration Camp at 1070 m asl. by S. R. Richards, 9-IV-1998.

Genus: *Xenobatrachus* Peters and Doria, 1878

Xenobatrachus schiefenhoeveri Blum and Menzies, 1988

(Holotype.- UPNG 7399, Munggona, Eipomek Valley, Papua, 1800 m asl., by J.P. Blum)

Paratype.- MZB Amph. 2801, 1 ex, Munggona, Eipomek Valley, Papua at 1800 m asl., by J. P. Blum, on IV-VI 1976.

Xenobatrachus multisica Blum and Menzies, 1988

(Holotype.- UPNG 7405, Munggona, Eipomek Valley, Papua, 1800 m asl., by J. P. Blum)

Paratypes.- MZB Amph. 2800 a,b,c,d,e, 5 ex, Munggona, Eipomek Valley, Papua at 1800 m asl., by J. P. Blum, on IV-VI 1976.

Genus: *Xenorhina* Peters, 1863

Xenorhina eiponis Blum and Menzies, 1988

(Holotype.- UPNG 7407, Base Camp, Eipomek Valley, Papua, 1800 m asl., by J.P. Blum)

Paratype.- MZB Amph. 2803, Munggona, Eipomek Valley, Papua at 1800 m asl., by J. P. Blum, on VI-1979.

Subfamily: Genyophryinae

Genus: *Austrochaperina* Fry, 1912

Austrochaperina blumi Zweifel, 2000

Holotype.- MZB Amph. 3562 (ex. UPNG 9538, J.P. Blum 1979-59), from Kosarek, at 1400 m asl., Jayawijaya District, Papua, by J. P. Blum, on VII-1979

Austrochaperina derongo Zweifel, 2000

(Holotype.- AMNH A 82289 from Derongo, 400 m asl. Western Province, Papua New Guinea, by F. Parker, 7 -IV-1968).

Paratype.- MZB Amph. 3563 from Wapoga Alpha Exploration camp, Papua, at 1070 m asl. 3° 08' 687"S and 136° 34' 423"E) by S. Richards & D.T. Iskandar, on 13-IV-1998.

Austrochaperina kosarek Zweifel, 2000

Holotype.- MZB Amph. 3561 (ex. UPNG 9532, J.P. Blum 1979-38), from Kosarek, at 1400 m asl., Jayawijaya District, Papua, by J. P. Blum, on VII-1979

Genus: *Oreophryne* Boettger, 1895

Oreophryne atrigularis Günther, Richards & Iskandar, 2001

(Holotype.- ZMB 6226 from Wondowoi Mts, at the base of Wandamen Peninsula 8 km west of the coastal village Yeretuar (2° 56'S; 134° 36'E), Nabire District, Papua by R. Günther, on 30-VI-1998). Paratypes.- MZB Amph. 7361-7362, 2

ex., same data as of the holotype, but collected between 350-750 asl., collected between 28-VII – 1-VIII-1998.

Oreophryne darewskyi Mertens, 1965

Current status.- *Oreophryne jeffersoniana* Dunn, 1928

(Holotype.- SMF from Rinca Island, by R. Mertens).

Paratypes.- MZB Amph. 3 ex, same data as for the holotype.

Note.- The original description specified that three of the paratypes belong to the MZB collection, but are still in the SMF collection.

Oreophryne minuta Richards & Iskandar, 2000

Holotype.- MZB Amph. 3877 from an unnamed mountain, Derwo River Basin, Papua, at 2000 m asl. (3° 26' 527"S and 136° 28' 365"E) by S. Richards & D. T. Iskandar, on 7-IV-1998

Paratype.- MZB Amph. 3878, same data as for the holotype

Oreophryne wapoga Günther, Richards & Iskandar, 2001

Holotype.- MZB Amph. 7358 from Wapoga Alpha Exploration Camp, Papua, at 1070 m asl. 3° 08' 687"S and 136° 34' 423"E) by S. Richards & D.T. Iskandar, on 11-IV-1998

Paratypes.- MZB Amph. 7359-7360, 2 ex., same data as for the holotype, except collected by M. Moore, on 16-IV-1998

Oreophryne rookmakeri Mertens, 1927b

(Holotype.- SMF 22090, Ranamese, West Flores at 1200 m asl., by Sunda Expedition Rensch).

Paratypes.- MZB Amph. 041. 6 ex, 4 ads + 2 juv., Ranamese, west of Flores Island at 1200 m asl., by Sunda Expedition Rensch, on 25-VI-1927.

Subfamily Microhylinae

Genus: *Kalophrynus* Tschudi, 1830

Kalophrynus minusculus Iskandar, 1998

Holotype.- MZB Amph. 367, male, from Cigeunteur, Ujung Kulon, West Java, by A.M.R. Wegner, on 15 July 1955.

Paratypes.- MZB Amph. 365 from Nyewaan, MZB 366, from Cikarang, MZB 375 and MZB 376 from Cidaun, 6 ex, all around the type local-

ity and by the same collector, and collected during the same period. MZB Amph. 2924 from Cidaun, Ujung Kulon, by H. Kurniati. MZB Amph. 2339 from Gelugur, Wai Kramat, Wai Sekampung, Lampung by D.T. Iskandar.

Family: Hylidae (Pelodyadidae)

Genus: *Litoria* Tschudi, 1838

Litoria elkeae Günther & Richards, 2000

(Holotype.- ZMB 59375 from Tetslaff, Kalibumi River, between Nabire and Mapia, Papua by R. Günther, on 9-VIII- 1998). Paratypes.- MZB Amph. 3838, 3866, 3869, 3 ex., all from Siewa, Wapoga Alpha Expedition, Papua, by S. Richards & D. T. Iskandar, on IV 1998.

Litoria macki Richards, 2001

Holotype.- MZB Amph. 3870 an adult male, from head water of Wapoga river, Wapoga Alpha Exploration Camp, Papua, at 1070 m asl. 3° 08' 687"S and 136° 34' 423"E) by S. Richards & M. Moore, on 17-IV-1998

Paratypes.- MZB Amph. 3871-3872, 2 ex., same data as for the holotype.

Litoria wapogaensis Richards & Iskandar, 2001

Holotype.- MZB Amph. 3873 from head water of Wapoga river, Wapoga Alpha Exploration Camp, Papua, at 1070 m asl. 3° 08' 687"S and 136° 34' 423"E) by S. Richards & D.T. Iskandar, on 12-IV-1998

Paratypes.- MZB Amph. 3874-3875, 2 ex., same data as for the holotype, except collected on 9-IV-1998; MZB Amph. 3876, collected on 15-IV-1998

Family: Ranidae

Genus: *Limnonectes* Fitzinger, 1843

Rana microdisca dammermani Mertens, 1929

Current status.- *Limnonectes dammermani* (Mertens, 1929)

(Holotype.- SMF 22100, Sembalun, Lombok, by Sunda Expedition Rensch).

Paratypes.- MZB Amph. 091, 3 ex, subadult, Badjawa, Flores Island, by Sunda Expedition Rensch, on 17-VI-1927.

Limnonectes kadarsani Iskandar, Boeadi and Sancoyo, 1996.

Holotype.- MZB Amph. 2940 (ex. 2654). 1 ex, an adult male, from Jaran Pasang, Lombok Island, by D. Hardjono, on 14-III-1978.

Paratypes.- MZB Amph. 009, 3 (of 5) ex, 2 males, 1 females, Wolowaru, Flores Island, by R. Mertens, Sunda-Exp. Rensch, on 16-VII-1927. MZB Amph. 120, 1 ex, female, Batu Dulang, Sumbawa Island, by R. Mertens, Sunda Exp. Rensch, on 6-V-1927. MZB Amph. 2935-2936 (ex.193), 2 ex, females and MZB Amph. 2959, 2960 (ex. 215), 2 ex. (partly cleaned), males; Semangkat Atas, Sumbawa Island, by R. Mertens, Sunda Exp. Rensch, on 11-V-1927; MZB Amph. 214. 1 ex, female, Bajawa, Flores Island, by R. Mertens, Sunda Exp. Rensch, on 6-VII-1927. MZB Amph. 2937-2939 (ex. 398). 3 ex, 2 females and 1 male. Rana Mese, Flores Island, by Fr. J. M. Vianney, on 10-IV-1958. MZB Amph. 1025-1026. 2 ex, males, Hinga, Adonara Island, by Fr. J. M. Vianney, on 10-V-1959. MZB Amph. 1024, 1 ex, male, Wure, Adonara Island, by Fr. J. M. Vianney, on 3-V-1959. MZB Amph. 2952-2956 (ex. 2507), 5 ex, Sariberu, near Simpasai market, Monta county, Bima, Sumbawa Island, by M. Siluba, on 7-II-1984. MZB Amph. 2943-2945 (ex. 2651), 3 ex, 2 males, 1 female, Jaran Pasang, Lombok Island, by D. Hardjono, on 8-14-III-1978. MZB Amph. 2941-2942 (ex. 2652), 2 ex, male and female, Jaran Pasang, Lombok Island, by D. Hardjono, on 8-III-1984. MZB Amph. 2946-2948 (ex. 2653), 3 ex, 2 males and 1 female, Jaran Pasang, Lombok Island, by D. Hardjono, on 14-III-1978. MZB Amph. 2949-2951 (ex. 2645), 3 ex, 2 males and 1 female, from west of Lombok Island, no exact locality by Rachmatun, on V-1982. MZB Amph. 2654. 1 ex, male, Jaran Pasang, Lombok Island, by D. Hardjono, on 14-III-1984. MZB Amph. 2957-2958 (ex. 2805), 2 ex, male and female, along stream creek near Air Merah, Batu Hijau, southwest of Sumbawa Island, by K. Martin, on II-1994.

Rana rhacoda Inger, Boeadi & Taufik, 1996.

Current status.- *Limnonectes rhacoda* (Inger, Boeadi & Taufik, 1996)

Holotype.- MZB Amph. 2991, an adult female from Kalang River, Mentaya Hulu District, East Kotawaringin, (1.25'S; 112.20'E), Central Kalimantan, Indonesia by A. W. Taufik, on I-1995.

Paratypes.- MZB Amph. 2992-2994, 3 ex, same data as for the holotype.

Rana asperata Inger, Boeadi & Taufik, 1996.

Current status.- *Limnonectes asperatum* (Inger, Boeadi & Taufik, 1996)

Holotype.- MZB Amph. 3117, an adult female from Kalang river, Mentaya Hulu District, East Kotawaringin, (1° 25'S/112° 20'E), Central Kalimantan, Indonesia, by Agustinus W. Taufik and E. Roezzaman, on I-1995.

Paratypes.- MZB Amph. 3118-20, 3 ex, collected together with the holotype.

Genus: *Meristogenys* Yang, 1991

Amolops orphnocnemis Matsui, 1986.

Current status.- *Meristogenys orphnocnemis* (Matsui, 1986)

(Holotype.- OMNH Am. 8052, Bundu Tuhan, Kinabalu, Malaysia at 990 m asl., by M. Matsui.)

Paratypes.- MZB Amph. 2721-2728, 8 ex., Muruk river, at 1050-1150 m, near Pa Nado, Sarawak border of Krayan county, North Borneo, Malaysia by M. Matsui.

Genus: *Platymantis* Günther, 1858

Platymantis batantae Zweifel, 1966.

(Holotype.- AMNH 74192, Mt. Besar, Wailebet, 1500 ft, Batanta Island, by S. Somadikarta and G. Gilliard)

Paratype.- MZB Amph. 2084, 1 ex., female from Mt. Besar, above Wailebet at 1500 ft, Batanta Island, West of Papua, by S. Somadikarta and G. Gilliard on 20-VI-1964.

Platymantis papuensis occidentalis Menzies, 1998

Holotype MZB Amph. 2470 (ex. UPNG 5258) from near Piliana, south coast of Seram Island, Indonesia, by J. I. Menzies.

Paratypes.- MZB Amph 2471-2473, 3 ex, from near Piliana, south coast of Seram Island, Indonesia by J. I. Menzies.

CLASS REPTILIA
ORDER: SQUAMATA

Family: Agamidae

Genus: *Aphaniotis* Peters, 1864

Japalura nasuta de Jong, 1930

Current status.- *Aphaniotis ornata* (van Lith de Jeude, 1893)

Holotype.- MZB Lace. 175a. 1 ex, male, from North Kalimantan, by Mohari, in 1912.

Paratypes.- MZB Lace. 175b, 3 ex, sex undetermined, same data as for the holotype.

Note.- Two other paratypes are in ZMA.

Family: Gekkonidae

Genus: *Aeluroscalabotes* Boulenger, 1885

Aeluroscalabotes dorsalis multituberculatus Kopstein, 1927

Current status.- *Aeluroscalabotes multituberculatus* Kopstein, 1927

Holotype.- MZB Lace. 073, 1 ex, male from Sanana, Sula Island, by Tarip, in 1914.

Paratype.- MZB Lace. 076, 1 ex, male from Kalimantan, by Mohari, in 1912.

Note.- MZB has another specimen (MZB Lace. 075) from Sula Island, collected together with the holotype, but it does not have type status. The species is considered doubtfully valid. However, further studies, perhaps also using molecular data, are needed to determine its systematic status. The Bornean paratype, clearly belongs to *A. felinus*, is at present in the SMF collection.

Genus: *Cyrtodactylus* Gray, 1827

Cyrtodactylus laevigatus Darevsky, 1964

(Holotype.- ZIP 17617, from Komodo Island at 1000 ft., 2-VIII-1962 by I. S. Darevsky).

Paratype.- MZB Lace. 979, 1 ex, female, from Komodo Island at 1000 ft., by I. S. Darevsky, on 2-VIII-1962.

Genus: *Lepidodactylus* Fitzinger, 1843

Lepidodactylus intermedius Darevsky, 1964

(Holotype.- ZIP 17614 from Komodo Isl. at 100 m 27-VIII-1962, by I. S. Darevsky.)

Paratype.- MZB Lace. 978, 1 ex, female from Komodo Island, at 100 m, by I. S. Darevsky, on 27-VIII-1962.

Note.- Auffenberg (1980) consider this form at most as a subspecies of *L. lugubris*, but it was listed as a distinct species by Kluge (2001).

Genus: *Luperosaurus* Gray, 1845

Luperosaurus iskandari Brown, Supriatna & Ota, 2000

Type.- MZB Lace. 2114, 1 ex., adult female, from Mt. Tompotika, Siuna, Pagimana, Banggai Island, Central Sulawesi, By R. M. Brown, on 15-VI-1998.

Family: Scincidae

Genus: *Cryptoblepharus* Wiegmann, 1834

Cryptoblepharus sumbawanus Mertens, 1928
(Holotype.- SMF 22096 from Sumbawa Besar, Sumbawa Isl., by Sunda Expedition Rensch).

Paratypes.- MZB Lace. 364. 8 ex., sexes undetermined, from Sumbawa Besar, Sumbawa Island., on 30-III-1927, by Sunda Expedition Rensch.

Genus: *Emoia* Gray, 1845

Lygosoma mivarti obscurum de Jong, 1927

Current status.- *Emoia obscura* de Jong, 1927

Holotype.- MZB Lace. 369, 1 ex, sex undetermined Prauwenbivak, Idenburg River, Papua by W.C. van Heurn on XI-1920

Paratype.- MZB Lace. 372, 1 ex, sex undetermined, North New Guinea, by K. Gjellerup, in 1911.

Note.- *Emoia obscura* was described from eight specimens, four from the type locality, three from Pioneerbivak, Mamberamo river, and another one from North New Guinea. Among them, MZB Lace. 369 is clearly labelled as “*typen nov. var*” and signed by de Jong himself as indicated in the original description. As shown by Brown (1953), the type serie of this form are composite based on the ZMA and RMNH specimens. Article 74a of the ICZN Code (1985) sets aside the lectotype designation of of the ZMA paratype (ZMA 11445, was designed as

lectotype by Brown, 1991), because the holotype still exist. Daan and Hillenius (1966) stated that other than their specimen, there is another specimen in RMNH and other specimens are considered as lost.

Emoia irianensis Brown, 1991

(Holotype.- RMNH 21239, female from Tussen Tage, Paniai lake, Papua by L. D. Brongersma, M. Boeseman and party, 3 Jan 1955)

Paratypes.- MZB Lace. 1087-97, 8 ex; MZB Lace. 1079-86 from Hitalipa, 8 ex., from Kumopa; MZB Lace. 1055-56, 2 ex., from Beoga; MZB Lace. 1078 from Usaciga, Central Mountains of Papua, Indonesia, by the same collectors as for the holotype.

Emoia kitcheneri How, Durrant, Smith & Saleh, 1998

Holotype.- MZB Lace. 4152 (WAM R101877) from Ngalu (10° 06' 30"S, 120° 41' 30"E), East Sumba, Indonesia, by R.A. How, D. J. Kitchener, N. K. Cooper, J. Dell & A Suyanto, on 8-VI-1989.

Paratypes.- MZB Lace. 4153-4165 (WAM R 101867, 101873, 101874; 101875; 101883; 101886; 101888; 101889; 101891; 101893; 101884; 101892; 101890) 13 ex, same data as for the holotype.

Leiolopisma kadarsani kadarsani Darevsky, 1964

Current status.- *Emoia similis* Dunn, 1927

Holotype.- MZB Lace. 976, 1 ex., female, from Komodo Island., at 500 m asl., by I. S. Darevsky, on 2-VIII-1962.

Leiolopisma kadarsani padariensis Darevsky, 1964

Current status.- *Emoia similis* Dunn, 1927

Holotype.- MZB Lace. 978, 1 ex., female, from Komodo Island, at 500 m asl., by I. S. Darevsky, on 6-VIII-1962.

Leiolopisma sembalunicum rintjana Darevsky, 1964

Current status.- *Emoia similis* Dunn, 1927

Holotype.- MZB Lace. 977, 1 ex, female, Rinca Island, by I.S. Darevsky, on 10-VIII-1962.

Note.- Auffenberg (1980) considered *Leiolopisma kadarsani* (with two subspecies) and *L. sembalunicum rintjana*, all described by

Darevsky, as synonymous with *Emoia similis*. No other specimens of *E. similis* and *L. sembalunica* have been collected since the original description despite careful investigations at the type locality by several major expeditions. The description of *E. similis* is similar to the two *Leiolopisma* species and a larger series show that the supranasal scale might be present or absent that leads to the separation of *E. similis* and *Leiolopisma*. Solving of this problem leads to the removal of the genus *Leiolopisma* from the fauna of Indonesia.

Genus: *Eugongylus* Fitzinger, 1843

Lygosoma (Riopa) sulaense Kopstein, 1927

Current status.- *Eugongylus sulaensis* (Kopstein, 1927)

Holotype.- MZB Lace. 361, Sanana, Sula Island, by Tarip in 1914.

Paratype.- MZB Lace. 4166 (ex 361b), 1 ex, same data as for the holotype.

Note.- Originally described from three specimens, all from the type locality. One other paratype is probably in RMNH as mentioned in the original description. The species is variously considered as a synonym of *Eugongylus rufescens*, but such decision necessities examination of the types.

Genus: *Mabuya* Fitzinger, 1843

Mabuya multifasciata balinensis Mertens, 1927a

(Holotype.- SMF, 22087 from Gitgit, Bali Island, by R. Mertens)

Paratypes.- MZB Lace. 564, 1 ex, juv. from Gitgit, North Bali, 500 m asl., by R. Mertens, on 1-VIII-1927. MZB Lace. 2132, 2133, 2134, 2257, 2259, (ex. 569), 5 ex., from Gitgit, North Bali, 500 m asl., by R. Mertens, on 1-VIII-1927. MZB Lace. 570, 5 ex., from Baturiti, Central Bali at 850 m asl., by Sunda Expedition Rensch, on 4-VIII- 1927.

Mabuya multifasciata tjendekianensis Mertens, 1956

Holotype.- MZB Lace. 807, 1 ex., female, Cendekian Island., Karimundjawa Isls., by A. Hoogerwerf, on 17-II-1955.

Paratype.- MZB Lace. 808, 1 ex., male same data as the holotype.

Note.- These specimens have been sent to SMF on 24 May 1957, and the holotype now bears a SMF number 55147.

Genus: *Glaphyromorphus* Wells & Wellington, 1984

Sphenomorphus mertensi Darevsky, 1964

Current status.- *Glaphyromorphus mertensi* (Darevsky, 1964)

Holotype.- MZB Lace. 975, 1 ex, female, Padar Island., at sea level, by I. S. Darevsky, on 8-VIII-1962

Glaphyromorphus butlerorum Aplin, How & Boeadi, 1993

Holotype.- MZB (WAM R101829) from Ngalu, (10° 06' 30"S, 120° 41' 30"E) Sumba Island

Paratype.- MZB (WAM R101908) same data as for the holotype.

Note.- These specimens are still in WAM, for a long-term loan and have not yet been catalogued.

Genus: *Sphenomorphus* Fitzinger, 1843

Sphenomorphus puncticentralis Iskandar, 1996

Holotype.- MZB Lace. 1865, 1 ex, female?, from Batu Raden, Southern slope of Mt. Slamet at 1200 m asl., by D. T. Iskandar on IX-1976.

Lygosoma dammermani Kopstein, 1927

Current status.- *Sphenomorphus undulatus* (Peters & Doriae, 1878)

Holotype.- MZB Lace. 339, 1 ex, sex undetermined Sula Island, by Tarip, in 1912.

Note.- This holotype, the only specimen from Sula Island, is partially destroyed, especially the head and the forelimbs are practically no more discernable when examined on 23-X-1976.

Family: Varanidae

Genus: *Varanus* Merrem, 1820

Varanus cerambonensis Philipp, Böhme & Ziegler, 1999.

Holotype.- MZB (ZMFK 70617) adult male from Laimu (3° 19'S; 129° 44'E) Seram Island, Indonesia, by H. Kotter, X-1996

Paratypes.- MZB (ZMFK) 2 ex., same data as for the holotype.

Note.- These specimens (the holotype and paratypes) have not yet been sent back to Indonesia.

Varanus komodoensis Ouwens, 1912.

Syntype.- MZB Lace. 946, 1 ex., juv. Komodo Isl. near Flores, by S. Hensbroek and R. Bitjara in 1908

Note.- Other syntypes could not be found in the MZB collections, and are probably in RMNH, where they were sent after the Second World War. Dunn (1927) stated that he has the opportunity to examine the entire type series in MZB in September 1927.

ORDER OPHIDIA

Family Typhlopidae

Genus: *Ramphotyphlops* Fitzinger, 1843

Typhlops iridescens de Jong, 1930

Current status.- *Ramphotyphlops erycinus* (Werner, 1901)

Holotype.- MZB Oph. 261. 1 ex., sex undetermined, Albatros bivak, Mamberamo river, Papua, by W. Docteurs van Leeuwen, on V-1926.

Typhlops polygrammicus brongersmai Mertens, 1930

Current status.- *Ramphotyphlops polygrammicus brongersmai* (Mertens, 1930)

(Holotype.- ZMA 11179 from Mao Maru, Kananggar, Sumba Island, by K.W. Dammerman).

Paratype.- MZB Oph. 251, 1 ex, sub-adult, Kananggar, South-east Sumba, at 700 m. asl., by K.W. Dammerman.

Note.- Daan and Hillenius (1966) note that this paratype was probably deposited in SMF.

Genus: *Typhlops* Oppel, 1811

Typhlops schmutzi Auffenberg, 1980

(Holotype.- UF 29507, Loho Lavi, Komodo Island. 12 m asl., by W. Auffenberg & colls., I-1970).

Paratypes.- MZB Oph. 1750, 6 ex. (ex. UF 29502, 29503, 29505, 29509, 29510, 29511), same data as for the holotype, except collected between 1970-1973.

Typhlops soensis de Jong, 1930

Current status.- *Ramphotyphlops polygrammicus soensis* (de Jong, 1930).

Paratypes.- MZB Oph. 264, 6 ex. adults and subadults, Soe, south-central Timor, at 880 m asl., Mrs. Walsch.

Note.- Described from nine specimens, consisting of the holotype, six paratypes in MZB plus two in ZMA. The holotype was deposited in MZB, but we were unable to trace it. This form may be synonymous with *R. polygrammicus*, but such decision needs to be based on further study.

Family: Cylindrophiiidae

Genus: *Cylindrophis* Wagler, 1863

Cylindrophis yamdena Smith & Sidik, 1998

Holotype.- MZB (WAM R112252) from Latdalam (7° 59' S, 131° 09'E), Yamdena, Tanimbar Islands, Indonesia, by R.E. Johnstone, D.J. Kitchener & R.A. How on 23-IV-1993

Paratypes.- MZB (WAM) 2 ex, same data as for the holotype.

Note.- These specimens are still in WAM on long-term loan, and have not been catalogued.

Family: Colubridae

Subfamily: Natricinae

Genus: *Tropidonophis* Jan, 1863

Natrix mairii multiscutellata Brongersma, 1948

Current status.- *Tropidonophis multiscutellatus* (Brongersma, 1948)

(Holotype.- RMNH 8669, Alkmaar, Lorentz river, by W.C. van Heurn).

Paratypes.- MZB Oph. 045, 2 ex. Prauwen bivak, Mamberamo river, north-western Irian Jaya, by W.C. van Heurn on 11-VII-1920 (noted as 18-IX-1920 in the original description).

Note.- The original description indicated that MZB has five specimens, but only two are traceable. Those from Manokwari and Albatros river, Batavia Rapid are probably lost. Unfortunately these two remaining specimens are now completely destroyed. The generic allocation follows Malnate and Underwood (1989)

Subfamily: Colubrinae

Genus: *Boiga* Fitzinger, 1826

Boiga dendrophila atra Kopstein, 1936

Current status.- *Boiga dendrophila gemmicincta* (Duméril & Bibron, 1854)

Holotype.- MZB Oph. 813, 1 ex, sex undetermined, Ba Ebunta, Masamba, Central Sulawesi, by M. Mansjur, on 27-VIII-1934.

Paratypes.- MZB Oph. 806 1 ex, male from Kolaka, South East Sulawesi, by Indonesian surgeon, on VI-1935. MZB Oph. 811, 1 ex., female from Palopo, Central Sulawesi, by an Indonesian veterinarian, on 15-XII-1934. MZB Oph. 815. 1 ex, Ba Ebunta, Masamba, central Sulawesi, by M. Mansjur, on 27-VII-1934.

Note.- This taxon is a melanistic form of the Sulawesi subspecies. However Kopstein is not the first one who described a black Sulawesi *Boiga*. *Naja celebensis* (Ahl 1933) may have priority, as Mertens (1961) examined the type of *Naja celebensis* and found that it to be a *Boiga dendrophila*. All old individuals became black, and colour variation is merely ontogenetic characteristics and not a case of melanism.

Genus: *Dendrelaphis* Boulenger, 1890

Ahaetulla boiga intermedia Mertens, 1927

(Holotype.- SMF 22093, Sumbawa Besar, Sumbawa Island., by Sunda Expedition Rensch).

Current status.- *Dendrelaphis inornatus* Boulenger, 1897

Paratypes.- MZB Oph. 195, 196, 784, 784a, 785, 792, 794, (ex 101), 7 ex, all from Sumbawa Besar, by Sunda Expedition Rensch, on 25-IV-1927.

MZB Oph. 1177, 1211 (ex. 010), 2 ex, Dompu, Sumbawa Island, by Sunda Expedition Rensch, on 24-V-1927.

Note.- According to How et al. (1996), this form could not be distinguished from *D. inornatus* based on multivariate analysis.

Genus: *Oligodon* Boie, 1827

Oligodon purpurascens kangeanicus Mertens, 1959

(Holotype: SMF 55144, Kalisanga, near Ardjasa, Kangean Isl., by A. Hoogerwerf).

Paratype.- MZB Oph. 1086. 1 ex, male, Kalisanga, near Ardjasa, north-west Kangean Island, at sea level, by A. Hoogerwerf, on 2-X-1954.

Note.- The original description gives the museum number as 1066 in error.

Family: Elapidae

Genus: *Bungarus* Daudin, 1803

Maticora intermedia Westermann, 1942

Current status.- *Bungarus flaviceps flaviceps* Reinhardt, 1843

Syntype.- MZB Oph. 466, 1 ex, sex undetermined, North Kalimantan, by Mohari - Grens Expedition, in 1912 (not found).

Note.- The original description noted that this species was described based on two specimens, neither of which were chosen as the holotype. However, it was noted that the other specimen is badly damaged at the head. The second (damaged) specimen is now in RMNH (Brongersma, 1948).

Bungarus javanicus Kopstein, 1932

Current status.- *Bungarus candidus* (Linn. 1754)

Note.- The holotype (and other Kopstein's specimens collected after the description of this form) are now in RMNH, bearing the number RMNH 9007 (and 9008) from Matanghaji, Cirebon. The species was synonymized to *B. candidus* by Slowinski (1994), and recently supported by molecular studies (U. Kuch, pers. comm., 2002).

Family: Viperidae

Genus: *Vipera* Laurenti, 1768

Vipera russelii sublimitis Kopstein, 1936

Current status.- *Daboia russelii siamensis* (Smith, 1917)

Syntype.- MZB Oph. 472, 1 ex, male, Klumprik, Sepanjang, near Kembang Kuning cementary, Surabaya, East Java, by H. Neuhaus, on 16-XII-1933.

Note.- Originally described on the basis of three specimens in the MZB collection, the syntype is the first as well as the largest specimen compared to two others, although none was des-

ignated as the holotype. Brongersma (1958) designated one of the cotypes from RMNH as a lectotype. We have no information of the whereabouts of the third specimen. The status of the MZB type specimen is rather doubtful, because the original description stated that "having only a single specimen is not enough...., ... fortunately we have collected two additional specimens" is the only indication that Kopstein did have access to this specimen when he described this form as a new subspecies. By the designation of the RMNH specimen as the lectotype, this specimen is, by implication, a paralectotype.

ORDER: CHELONII

Family: Chelidae

Genus: *Elseya* Gray, 1867.

Emydura branderhorsti Ouwens, 1914

Current status.- *Elseya branderhosti* (Ouwens, 1914)

Holotype.- lost, not in the records.

Note.- The holotype was kept as living specimen at the time of description, and cannot be traced in the MZB archive at present.

Family: Geoemydidae

Genus: *Leucocephalon* McCord, W. P. J. B. Iverson, P. Q. Spinks & H. B. Shaffer. 2000.

Geoemyda yuwonoi McCord, Iverson & Boeadi, 1995

Current status.- *Leucocephalon yuwonoi* (McCord, Iverson & Boeadi, 1995)

Holotype.- MZB 10295? from Marisa, North Sulawesi, by F. B. Yuwono, in 1993.

This holotype did not reach the MZB collection, and was presumably destroyed during the flooding of Jakarta.

Family: Trionychidae

Genus: *Chitra* Gray, 1844

Chitra chitra javanica McCord & Pritchard, 2002

Holotype.- MZB Test 199, 57.0 cm male, from Pasuruan River, near Pasuruan, East Java, Indonesia by local turtle hunters. Donated by F. Yuwono.

Paratypes.- MZB. 264, a 34.2 cm subadult and MZB 265, a 15.5 cm juvenile; MZB 266 and 267, both subadult skeletons.

Note.- in addition, MZB have two other giant (skeletonized) specimens, but are not included in the types.

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