*THE RAFFLES BULLETIN OF ZOOLOGY* 2001 **49**(1): 7-11


# CATALOGUE OF HERPETOLOGICAL TYPES IN THE COLLECTION OF THE RAFFLES MUSEUM OF BIODIVERSITY RESEARCH, NATIONAL UNIVERSITY OF SINGAPORE

**Indraneil Das**
*Institute of Biodiversity and Environmental Conservation, Universiti Malaysia Sarawak, 94300 Kota Samarahan, Sarawak, Malaysia. Email: idas@mailhost.unimas.my*

**Kelvin K. P. Lim**
*Raffles Museum of Biodiversity Research, National University of Singapore, Lower Kent Ridge, Singapore 119260. Email: dbslimkp@nus.edu.sg*

***ABSTRACT.*** – The Raffles Museum of Biodiversity Research, which incorporates the Zoological Reference Collection at the National University of Singapore, contains the largest zoological reference collection in south-east Asia. Being the inheritor of the collections of the old Raffles Museum, and subsequently, the National Museum, it is a respository of historical specimens collected by pioneering south-east Asian biologists including R. Hanitsch, J. C. Moulton, F. N. Chasen and M. W. F. Tweedie. Name-bearing types of some of the older specimens appeared in papers authored by M. A. Smith and W. Hennig, among others. In the catalogue of herpetological types compiled here, types of seven amphibian and 13 reptile species are indicated, comprising a total of 48 type material (nine holotypes, 27 paratypes and 12 syntypes).

***KEY WORDS.*** – Amphibians, reptiles, type catalogue, Zoological Reference Collection, Raffles Museum of Biodiversity Research, Singapore.

## INTRODUCTION

The Zoological Reference Collection of Singapore was started in 1849 at the Raffles Museum, which was named after the founder of Singapore city, Sir Thomas Stamford Raffles (1781-1826). This collection was renamed the National Museum of Singapore in 1961. In 1972, when the National Museum decided to concentrate on its role as an ethnological, historical and art museum, the zoological collections, as well as library, were transferred to the National University of Singapore (NUS), where it incorporated the collections of the former University of Singapore and the Nanyang University. Due to problems of storage space, the collection was moved four times, till it finally settled, in 1987, at the present facility in the Science Library Building at the NUS's Kent Ridge Campus where it became the Zoological Reference Collection (ZRC). In 1998, the ZRC became part of the new Raffles Museum of Biodiversity Research (see Ng, 2000).

The early collections were mostly donations from the landed gentry (including Whampoa Hoo Ah Kay, Lim Boon Keng and His Royal Highness, the Sultan of Johore). Eminent local and European naturalists who served as staff of the Museum include Karl Richard Hanitsch (1860-1940), the first Curator and Librarian between 1895-1919; John Coney Moulton (1886-1926), former Curator of the Sarawak Museum, and Director of the Raffles Museum between 1919-1923; Cecil Boden Kloss (1877-1949), Director between 1923-1932; Frederick Nutter Chasen (1897-1942), Assistant Curator between 1921-1932, becoming Director between 1932-1942; Michael Wilmer Forbes Tweedie (1907-1993), Assistant Curator in 1932, becoming Curator in the same year, until 1941, and Director between 1946-1971; Carl A. Gibson-Hill (1911-1963), Curator between 1947-1957, becoming Director in 1957 till 1963; and Eric R. Alfred, Curator between 1957-1967, and Director between 1967-1972.

The first expedition of the Museum was conducted by Hanitsch, in 1895, to the neighbouring islands of Pulau Brani and Pulau Blakang Mati (at present Sentosa Island). Subsequently, the Museum organized a major expedition to Mount Kinabalu in Borneo, from where important collections of virtually all groups of animals were made (see Hanitsch,

Received 26 Nov 1999 Accepted 14 Mar 2000

1900b, for a description). Since 1920, the collections have grown, with expeditions conducted to many neighbouring areas, including Malaysia, Thailand, Vietnam, Laos, Cambodia, Indonesia, Brunei Darussalam, and the Australian territories of Cocos-Keeling Islands and the Christmas Island.

The herpetological specimens at present number over 3,300 amphibians (representing about 100 species) and 3,500 reptiles (representing about 238 species). Herpetological types represented include seven amphibian and 13 reptile taxa (including 48 type specimens, comprising nine holotypes; 27 paratypes and 12 syntypes), and historical material include types of species named by Malcolm Arthur Smith (1875-1958) and Emil Hans Willi Hennig (1913-1976).

## ABBREVIATIONS OF SYSTEMATIC INSTITUTIONS

Leviton et al. (1985) recommended USDZ as the abbreviation for the present collection, although most workers, including the museum itself, continues to use the ZRC prefix, which is what we have followed in the present catalogue. Other institutional abbreviations, where available, follow Leviton et al. (1985).

AMS – Australian Museum, Sydney, Australia.

BMNH – Natural History Museum, London, United Kingdom.

FMNH – Field Museum of Natural History, Chicago, U.S.A.

MCZ – Museum of Comparative Zoology, Harvard University, Cambridge, U.S.A.

MNHN – Musée National d'Histoire Naturelle, Paris, France.

MTKD – Staatliches Museum für Tierkunde, Dresden, Germany.

NMB – Naturhistorisches Museum, Basel, Switzerland.

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

SMF – Natur-Museum und Forschungs-institut Senckenberg, Frankfurt am Main, Germany

WHT – Wildlife Heritage Trust of Sri Lanka, Colombo, Sri Lanka.

ZFMK – Zoologisches Forchunginstitut und Museum Alexander Koenig, Bonn, Germany.

ZMA – Zoological Museum, Amsterdam, the Netherlands.

ZMB – Zoologisches Museum Humboldt-Universität, Berlin, Germany.

ZMH – Zoologisches Institut und Museum, Universität Hamburg, Hamburg, Germany.

ZRC – Zoological Reference Collection, Raffles Museum of Biodiversity Research, National University of Singapore, Singapore.

## LIST OF HERPETOLOGICAL TYPES

### Amphibians

### Bufonidae

*Bufo kumquat* Das & Lim, 2001. *Raffles Bull. Zool.* **49**(1):1-6; Figs. 1-2.

Types: ZRC 1.3137 (holotype), from "0.63 km from 35 km point on the Sungei Besar - Tanjung Malim Road, Sabak Bernam, North Selangor, West Malaysia"; ZRC 1.3138-3141 (4 paratypes), ZRC 1.3142 (1 paratype), from same locality as holotype; ZRC 1.3584 (1 paratype), from "Sabak Bernam, North Selangor, West Malaysia".

Current status: *Bufo kumquat* Das & Lim, 2001.

### Microhylidae

*Microhyla annectans* Boulenger, 1900. *Ann. & Mag. nat. Hist. ser. 7,* 5: 188.

Types: ZRC 1.125-26 (two syntypes), from "Larut Hills at 4000 feet" (in Perak State, West Malaysia).

Current status: *Microhyla annectans* Boulenger, 1900.

Remarks: Additional syntypes are BMNH 1900.6.14.34-35 (Parker, 1934: 130).

### Ranidae

*Amolops kinabaluensis* Inger, 1966. *Fieldiana Zool.* 52: 266.

Types: ZRC 1.205-06 (two paratypes), from "Mount Kina Balu" (in Sabah, East Malaysia; Borneo).

Current status: *Meristogenys kinabaluensis* (Inger, 1966).

Remarks: Reallocated to the genus *Meristogenys* by Yang (1991). The holotype is FMNH 109798. Additional paratypes are in the BMNH, FMNH, MNHN and NMB (see Inger, 1966).

*Limnonectes kirtisinghei* Manamendra-Arachchi & Gabadage, 1996. *J. south Asian nat. Hist.* 2(1): 32 ; Figs. 1, 3a, 4a, 5a, 6-8.

Types: ZRC 1.3274-75 (two paratypes), from "Sri Lanka: Koskulana near Panapola (Sinharaja Rain Forest), alt. 460 m (06°25'N, 80°27'E)"; ZRC 1.3276 (paratype), from "Sri Lanka: Waitalawa near Urugala (Knuckles), alt. 915 m, (07°19'N, 80°49'E)"; ZRC 1.3277 (paratype), from "Sri Lanka: Usgala, Ambagahakanda (near Maliboda), alt. 700 m (06°52'N, 80°26'E)".

Current status: *Limnonectes kirtisinghei* Manamendra-Arachchi & Gabadage, 1996

Remarks: The holotype is AMS R 148272; additional paratypes are in AMS and WHT.

*Rana nitida* Smedley, 1931. *Bull. Raffles Mus.* 6: 107; Pl. II.

Type: ZRC 1.849 (syntype), from "Tanah Rata" (in the Cameron Highlands, Pahang, West Malaysia); ZRC 1.850 (syntype), from "Brinchang Rd" (in the Cameron Highlands, Pahang, West Malaysia).

Current status: *Limnonectes nitidus* (Smedley, 1931).

Remarks: Allocated to *Limnonectes* by Dubois (1987). The

following are additional syntypes: BMNH 1947.2.1.35 (formerly BMNH 1931.10.8.1) and BMNH 1931.10.8.2 (apparently not re-registered in 1947, but still extant, B. T. Clarke, pers. comm., 1999).

*Rana pileata* Boulenger, 1916. *J. nat. Hist. Soc. Siam* 2(2): 103.

Types: ZRC 1.852-53 (two syntypes), from "Khao Cebab, Chantabun, S. E. Siam" (in Chanthaburi Province, Thailand).

Current status: *Rana pileata* Boulenger, 1916.

Remarks: Additional syntypes include BMNH 1947.2.1.97-99 and BMNH 1947.2.2.1-9 (formerly BMNH 1917.5.14.25-34), BMNH 1947.2.2.10 (formerly BMNH 1917.5.4.35) and BMNH 1947.2.2.11 (formerly BMNH 1916.4.17.1).

*Rana tweediei* Smith, 1935. *Bull. Raffles Mus.* 10: 62; Pl. IV.

Type: ZRC 1.862-63 (two paratypes), from "..near the River Yum, Headwaters Plus River, alt. 2,000 feet" (in Perak State, West Malaysia).

Current status: *Rana tweediei* Smith, 1935.

Remarks: The species was based on an adult male (described as the "type") and five "juveniles"; the entire type series, apart from the holotype (BMNH 1934.5.21.1; fide Frost, 1985: 519), must be considered paratypes. The fate of the remaining three syntypes is unknown. Considered synonymous with *Rana nitida* Smedley, 1931, by Kiew (1975), although Dring (1979) subsequently considered it valid.

## Reptiles

### Gekkonidae

*Cnemaspis assamensis* Das & Sengupta, 2000. *J. South Asian nat. Hist.* 5(1): 18; Figs. 1-2.

Types: ZRC 2.4673 (holotype), ZRC2.4675-76 (two paratypes), "Mayeng Hill Reserve Forest (25° 48'-55'N, 91° 21'-32'E), alt. ca. 90 m above msl, Kamrup District, Assam State, north-eastern India".

Current status: *Cnemaspis assamensis* Das & Sengupta, 2000.

*Cnemaspis gordongekkoi* Das, 1993. *Hamadryad* 18: 1; Pl. 1.

Types: ZRC 2.3380 (holotype), ZRC 2.3381 (paratype), from "..vicinity of Sendanggila Falls, *circa* 0.5 km south of Senaru village, Lombok, Nusa Tenggara District, Republic of Indonesia (8° 45'S, 116° 30'E)".

Current status: *Cnemaspis gordongekkoi* Das, 1993.

*Cnemaspis otai* Das & Bauer, 2000. *Russian J. Herpetol.* 7(1): 18; Figs. 1-2.

Types: ZRC 2.4710 (holotype), from "Vellore Fort, Vellore (12° 56'N; 79° 09'E), North Arcot District, Tamil Nadu State, south-eastern India"; ZRC 2.4712 (paratype), from "Balamadi Hill, Vellore, North Arcot District, Tamil Nadu State, south-eastern India"; ZRC 2.4711 (paratype); "Vellore, North Arcot District, Tamil Nadu State, south-eastern India".

Current status: *Cnemaspis otai* Das & Bauer, 2000.

*Cnemaspis yercaudensis* Das & Bauer, 2000. *Russian J. Herpetol.* 7(1): 22; Figs. 4-5.

Type: ZRC 2.4709 (holotype), from "Yercaud Town (11° 48'N; 78° 14'E), in the Shevaroyan (Shevroy) Range, Salem District, Tamil Nadu, south-western India, altitude 1,515 m ASL".

Current status: *Cnemaspis yercaudensis* Das & Bauer, 2000.

*Cyrtodactylus tiomanensis* Das & Lim, 2000. *Raffles Bull. Zool.* 48(2): 223-231; figs. 1-2.

Types: ZRC 2.3412 (holotype), ZRC 2.3413a-b (two paratypes), ZRC 2.3508-011 (three paratypes), from "Kampung Tekek-Juara trail, Pulau Tioman (02° 35'N; 104° 15'E), Pahang, Malaysia"; ZRC 2.3515 (paratype), Gunung Kajang, Pulau Tioman, Pahang, Malaysia".

Current status: *Cyrtodactylus tiomanensis* Das & Lim, 2000.

*Gonatodes nigridius* Smith, 1925. *Sarawak Mus. J.* 3(8): 22.

Material: ZRC 2.1114-115 (non-types; see 'Remarks'); from "Mt. Gadin" (= Gunung Gading, Sarawak, East Malaysia; Borneo).

Current status: *Cnemaspis nigridius* (Smith, 1925).

Remarks: Reviewed by Das and Bauer (1998). The holotype is BMNH 1946.8.22.90 (formerly BMNH 1925.9.1.8). Smith (1925b) designated only a single 'type' (= holotype) of his new species, although his description was clearly based on several specimens: ZRC 2.1114-115 as well as MCZ 39024, which do not therefore have the status of types.

### Agamidae

*Draco formosus laetepictus* Hennig, 1936. *Temminckia* 1: 217.

Types: ZRC 2.517 (paratype), from "Mentawei-Inseln (...S. Pagi..)" (in Sumatera Province, Indonesia); ZRC 2.518 (paratype), from "Mentawei-Inseln (Siberut..)" (in Sumatera Province, Indonesia).

Current status: *Draco obscurus laetepictus* (Hennig, 1936); but see 'Remarks'.

Remarks: Tentatively considered a subspecies of *Draco obscurus* Boulenger, 1887, by Musters (1983), which Inger (1983) considered *D. formosus* Boulenger (1890) as synonymous with *D. obscurus* Boulenger (1887). The holotype (from "Mentawei-Inseln (Siberut..)" (in Sumatera Province, Indonesia) was in MTKD 2574, which was destroyed during the bombing of Dresden during World War II (Obst, 1977). The whereabouts of a third paratype from "Mentawei-Inseln (Siberut..)" (in Sumatera Province, Indonesia), is not known.

*Draco quinquefasciatus longibarba* Hennig, 1936. *Temminckia* 1: 193.

Types: ZRC 2.659 (holotype), from "Borneo, Baram, Sarawak" (in East Malaysia). According to the original description, there were two paratypes in this institution

from "Borneo, Samauang river, N. Sandakan" (in Sabah, East Malaysia) and "Borneo, Kiau, Mt. Kinabalu" (in Sabah, East Malaysia); these cannot be located at present.

Current status: Subjective synonym of *Draco quinquefasciatus* Hardwicke & Gray, 1827.

Remarks: Synonymised under *Draco quinquefasciatus* Hardwicke & Gray, 1827, by Musters (1983). Paratypes include ZMA 11022-23 (from Samarinda, Kalimantan, Indonesia; Borneo; Daan and Hillenius, 1966; van Tuijl, 1995) and RMNH 4996 (Musters, 1983). Hanitsch (1900) mentioned a specimen in the collection of the ZRC from Baram, one of the type localities.

**Scincidae**

*Lygosoma trifasciatum* Tweedie, 1940. *Bull. Raffles Mus.* 16: 83.

Types: ZRC 2.1862 (syntype), from Tanah Rata, alt. 4500', Cameron Highlands, Pahang (in West Malaysia); ZRC 2.1864 (syntype), from Telom Valley at 5000', Pahang (in West Malaysia); ZRC 2.1865-66 (two syntypes), from Cameron Highlands at 4-5000', Pahang (in West Malaysia).

Current status: *Larutia trifasciata* (Tweedie, 1940).

Remarks: Reallocated to the genus *Larutia* by Böhme (1981). The species was based on eight syntypes.

**Cylindrophiidae**

*Cylindrophis engkariensis* Stuebing, 1994. *Raffles Bull. Zool.* 42(4): 969; Figs. 1-2.

Type: ZRC 2.3398 (field number RBS 8821; holotype), from "Nanga Segerak (1° 25'N 112° 00'E), 245 m asl, headwaters of the Engkari River, Lanjak-Entimau Wildlife Sanctuary, Lubok Antu District, Second Division, Sarawak, Malaysia" (in Borneo).

Current status: *Cylindrophis engkariensis* Stuebing, 1994.

**Colubridae**

*Collorhabdium williamsoni* Smedley, 1931. *Bull. Raffles Mus.* 6: 120.

Types: ZRC 2.2168-69 (two syntypes), from "Tanah Rata, Cameron Highlands, Malay Peninsula" (in Pahang State, West Malaysia). The ZRC register gives the altitude of collection of the two syntypes as 4,500 feet (ZRC 2.2168) and 4,600 feet (ZRC 2.2169).

Current status: *Collorhabdium williamsoni* Smedley, 1931.

Remarks: A third syntype is BMNH 1946.1.6.55 (formerly BMNH 1931.10.8.4).

*Macrocalamus tweediei* Lim, 1963. *Bull. Natl. Mus. Singapore* 32: 99; Pl. 2.

Type: ZRC 2.2174 (holotype; formerly Institute for Medical Research, Kuala Lumpur R57,656), from "Gunung Brinchang, Cameron Highlands, Pahang, at an elevation of 6,000 ft." (in West Malaysia).

Current status: *Macrocalamus tweediei* Lim, 1963.

Remarks: The paratype (formerly Institute of Medical Research, Kuala Lumpur, R54,070) is FMNH 109868.

*Macrocalamus schulzi* Vogel & David, 1999. *Raffles Bull. Zool.* 47: 318; Pl. 1, 4, 5, 9-12 ; Figs. 1-2.

Type: ZRC 2.3697 (paratype), from "Tanah Rata (ca. 4°29'N, 101°23'E), Cameron Highlands, Pahang, Malaysia".

Current status: *Macrocalamus schulzi* Vogel & David, 1999.

Remarks: The holotype is ZFMK 51159; additional paratypes include MNHN 1997.3269, 39360, 3268, SMF 78368, ZFMK 65036 and ZMB 49143.

**Crotalidae**

*Trimeresurus chaseni* Smith, 1931. *Bull. Raffles Mus.* (5): 29.

Type: ZRC 2.2173 (paratype), from "Kiau" (in Kinabalu Park, Sabah, East Malaysia; Borneo).

Current status: *Ovophis chaseni* (Smith, 1931).

Remarks: Allocated to the genus *Ovophis* by Hoge and Romano-Hoge ("1979" 1981). The sampling altitude at Kiau was "3,000 ft.", according to the original description of Smith (1931: 6). The holotype is BMNH 1946.1.18.84 (Toriba, 1993).

## ACKNOWLEDGEMENTS

We thank Peter K. L. Ng and Chang Man Yang and our respective institutions, NUS and UNIMAS, for supporting the preparation of this catalogue. Visits to NUS by the first author was supported by research grants from UNIMAS (120/98 [9] and 192/99[4]). Barry T. Clarke and Colin J. McCarthy (BMNH), Jakob Hallerman (ZMH), John Cadle and José Rosado (MCZ), Uwe Fritz (MTKD), Rainer Günther (ZMB), Marinus Hoogmoed (RMNH), and Alain Resetar (FMNH) supplied information on their holdings relevant to the preparation of this catalogue and/or permitted us to examine material under their care. Aaron M. Bauer and Van Wallach provided literature critical for the preparation of the catalogue. Finally, we thank Aaron M. Bauer and Djoko Iskander for comments on the manuscript.

## LITERATURE CITED

Böhme, W., 1981. A new lygosomine skink from Thailand (Reptilia: Scincidae). *Bull. Mus. Civ. Stor. Nat. Verona,* **8**: 375-382.

Boulenger, G. A., 1894. *Catalogue of the snakes in the British Museum (Natural History). Volume II., containing the conclusion of the Colubridae Aglyphae.* British Museum (Natural History), London. xi + 382 pp + Pl. I-XX.

Boulenger, G. A., 1900. Description of new batrachians and reptiles from the Larut Hills, Perak. *Ann. & Mag. nat. Hist. ser. 7,* **6**(32): 186-193.

Boulenger, G. A., 1916. Description of a new frog from Siam. *J. nat. Hist. Soc. Siam,* **2**(2): 103-105; 1 pl. (with a note by M. A. Smith.)

Daan, S. & D. Hillenius, 1966. Catalogue of the type specimens of amphibians and reptiles in the Zoological Museum, Amsterdam. *Beaufortia,* **13**(158): 117-144.

Das, I., 1993. *Cnemaspis gordongekkoi*, a new gecko from Lombok, Indonesia, and the biogeography of Oriental species of *Cnemaspis* (Squamata: Sauria: Gekkonidae). *Hamadryad,* **18**: 1-9; Pl. 1.

Das, I. & A. M. Bauer, 1998. Systematics and biogeography of Bornean geckos of the genus *Cnemaspis* Strauch, 1887 (Sauria: Gekkonidae), with the description of a new species. *Raffles Bull. Zool.,* **46**(1): 11-28.

Das, I. & A. M. Bauer, 2000. Two new species of *Cnemaspis* (Sauria: Gekkonidae) from Tamil Nadu, southern India. *Russian J. Herpetol.,* **7**(1): 17-28.

Das, I. & K. K. P. Lim, 2001. A new *Bufo* (Anura: Bufonidae) from the peat swamps of Selangor, West Malaysia. *Raffles Bull. Zool.* **49**(1): 1-6.

Das, I. & L. J. Lim, 2000. A new species of *Cyrtodactylus* (Sauria: Gekkonidae) from Pulau Tioman, Malaysia. *Raffles Bull. Zool.* **48**(1): 223-231.

Das, I. & S. Sengupta.,2000. A new species of *Cnemaspis* (Sauria: Gekkonidae) from Assam, north-eastern India. *J. South Asian nat. Hist.,* **5**(1): 17-24.

Dring, J. C., 1979. Amphibians and reptiles from northern Trengganu, Malaysia, with descriptions of two new geckos: *Cnemaspis* and *Cyrtodactylus*. *Bull. British Mus. nat. Hist. Zool.,* **34**(5): 181-241.

Dubois, A., 1987. Miscellanea taxinomica batrachologica (I). *Alytes,* **5**(1-2): 7-95.

Frost, D. R. (ed.), 1985. *Amphibian species of the world. A taxonomic and geographical reference*. Allen Press, Inc., and Association of Systematics Collections, Lawrence. v + 732 pp.

Hanitsch, R., 1900a. *Check list of the reptiles and amphibians in the Raffles Museum, Singapore*. Mimeo. 6 pp.

Hanitsch, R., 1900b. An expedition to Mount Kina Balu, British North Borneo. *J. Br. Royal Asiatic Soc.*, (**34**): 48-88; 2 pl.

Hennig, W., 1936. Revision der Gattung *Draco* (Agamidae). *Temminckia,* **1**: 153-220.

Hoge, A. R. & S. A. R. W. De Lemos Romano-Hoge, "1979" 1981. Poisonous snakes of the world. Part I. Check list of the pit vipers Viperoidea, Viperidae, Crotalinae. *Mem. Instituto Butantan, São Paulo,* **42-43**: 179-310

Inger, R. F., 1966. The systematics and zoogeography of the Amphibia of Borneo. *Fieldiana Zool.,* **52**: 1-402. Reprinted 1990. Lun Hing Trading Company, Kota Kinabalu.

Inger, R. F., 1983. Morphological and ecological variation in the flying lizards (genus *Draco*). *Fieldiana Zool.* n.s., (**18**): i-iv + 1-35.

Kiew, B. H., 1975. A note on the genus *Rana*: *Rana tweediei* Smith is synonymous with *Rana nitida* Smedley. *Malayan nat. J.,* **28**(2): 107-109; Pl. I-II (= 1 plate).

Leviton, A. E., R. H. Gibbs, Jr., E. Heal & C. E. Dawson, 1985. Standards in herpetology and ichthyology: Part I. Standard symbolic codes for institutional resource collections in herpetology and ichthyology. *Copeia,* **1985**: 802-832.

Lim, B. L., 1963. *Macrocalamus tweediei*, a new species of reed snake from Malaya. *Bull. Natl. Mus., Singapore,* **32**: 99-102; Pl. 2.

Manamendra-Arachchi, K. & D. Gabadage, 1996. *Limnonectes kirtisinghei*, a new species of ranid frog from Sri Lanka. *J. south Asian nat. Hist.,* **2**(1): 31-42.

Musters, C. J. M., 1983. Taxonomy of the genus *Draco* L. (Agamidae, Lacertilia, Reptilia). *Zool. Verh., Leiden,* (**199**): 1-120, 4 pl.

Obst, F.-J., 1977. Die Herpetologische Sammlung des Staatlichen Museums für Tierkunde Dresden und ihre Typusexemplare. *Zool. Abh. Staat. Mus. Tierk. Dresden,* **34**(13): 171-186.

Parker, H. W., 1934. *A monograph of the frogs of the family Microhylidae*. British Museum (Natural History), London. (1) + viii + 208 pp. Reprinted 1966, Johnson, New York.

Smedley, N., 1931. Amphibians and reptiles from the Cameron Highlands, Malay Peninsula. *Bull. Raffles Mus.*, **6**: 105-123; Pl. II.

Smith, M. A., 1925. Contribution to the herpetology of Borneo. *Sarawak Mus. J.*, **3**(8): 15-34.

Smith, M. A., 1931. The herpetology of Mt. Kinabalu, North Borneo, 13,455 ft. *Bull. Raffles Mus.*, (**5**): 4-32; 2 pl.

Smith, M. A., 1935. On a collection of reptiles and amphibians from Perak, Malay Peninsula. *Bull. Raffles Mus.,* (**10**): 61-63; Pl. IV.

Stuebing, R. B., 1994. A new species of *Cylindrophis* (Serpentes: Cylindrophiidae) from Sarawak, western Borneo. *Raffles Bull. Zool.*, **42**(4): 967-973.

Toriba, M., 1993. *Ovophis* Burger, 1981. In: Golay, P., H. M. Smith, D. G. Broadley, J. R. Dixon, C. McCarthy, J.-C. Rage, B. Schätti & M. Toriba (eds.). *Endoglyphs and other major venomous snakes of the world: A checklist.* pp: 81-83. Azemiops S. A., Herpetological Data Centre, Geneva.

Tuijl, L. van., 1995. Revised catalogue of the type specimens of recent amphibians and reptiles in the "Zoologisch Museum" University of Amsterdam, The Netherlands. *Bull. Zoöl. Mus. Univ. Amsterdam,* **14**(8): 125-144.

Tweedie, M. W. F., 1940. Notes on Malayan reptiles. *Bull. Raffles Mus.,* **16**: 83-87.

Vogel, G. & P. David, 1999. A revision of the genus *Macrocalamus* (Serpentes: Colubridae) with description of a new species and a key to the genus. *Raffles Bull. Zool.,* **47**: 309-332.

Yang, D.-T., 1991. Phylogenetic systematics of the *Amolops* group of ranid frogs of southeastern Asia and the Greater Sunda Islands. *Fieldiana Zool.* n.s., (**1423**): 1-42.

Zhao, E.-M. & K. Adler, 1993. *Herpetology of China*. Society for the Study of Amphibians and Reptiles, Contributions to Herpetology, No. 10, Oxford, Ohio. 522 pp + 48 pl. + 1 folding map.