

A CHECKLIST OF THE SNAKES OF BORNEO

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ABSTRACT. - A checklist of Bornean snakes was compiled based on literature records and museum collections, incorporating substantial new material acquired from Malaysian Borneo over the last twenty years. The Bornean fauna possesses a much stronger relationship to the fauna of Sundaland, than to the fauna of neighboring land masses such as the Philippines and Sulawesi. Endemic species contribute approximately one third of the total of 145 species, and the majority of the latter are from three genera: *Calamaria*, *Oligodon* and *Amphiesma*. Distribution of terrestrial snake species within Borneo appears to be non-uniform, with only four snake species shared exclusively between Sabah and Kalimantan, compared to 34 species shared between Sabah and Sarawak. Geologic activity in Sabah during prehistoric times may have possibly affected the present distribution. The species total for marine snakes is similar to that reported from the Straits of Malacca.

INTRODUCTION

The island of Borneo covers an area of approximately 451,865 sq. km and lies at the southern edge of the Sunda shelf within the equatorial zone of Southeast Asia. Until the 20th century virtually the whole of Borneo was covered by tropical moist forests, such as mangrove and dipterocarp forests in the lowlands and oak or other montane tree species above about 1000 m. The forested areas are drained by several meandering river systems such as the Kinabatangan and Padas in Sabah, the Rajang and Baram systems of Sarawak, and the Barito and Kapuas Rivers in Kalimantan. A range of mountains bisects Borneo from southwest to northeast, separating major portions of the northern, southern and eastern watersheds from each other. This rather complex series of mountain ranges forming the continental divide culminates at its most northern extremity in the 4101 m peak of Mt. Kinabalu in the present Malaysian State of Sabah. Mt. Kinabalu exceeds all other Bornean peaks in height by at least 1500 m.

The biotic communities of Borneo are variable, but tend to change gradually inland from mangrove to karangas/heath forests, which in turn grade into lowland hardwood forests dominated by the Dipterocarpaceae. From about 1000 m upwards, the forests change to a drier community dominated by oaks, which is eventually transformed above about 1500 m into a stunted low vegetation type consisting of trees and bushes which do not form a continuous canopy.

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Some of the earliest collections of snakes from Borneo were made by Everett and Whitehead, most of which were obtained from the coastal regions of Sarawak and Sabah. Beginning in 1929 with the expedition of the Raffles Museum of Singapore (under the supervision of colonial curators Chasen and Pendlebury), Mt. Kinabalu became the focus for collecting efforts and many new species were obtained from then North Borneo (now Sabah). Through the efforts of a number of naturalists beginning with Malcolm Smith and followed up over the next forty years by curators of the Sarawak Museum, the snake fauna of northern Borneo became increasingly well documented. A listing of the fauna of southern Borneo was indirectly accomplished first by De Rooij (1917) and subsequently by De Haas (1950), though collections from Kalimantan's considerably more extensive territory were relatively few. The most recent summary concerning the Bornean snake fauna was published by Haile (1958), though no locality data were provided. The diverse genus *Calamaria* was revised (concurrent with the naming of several new species) by Inger & Marx (1965). Finally, a significant amount of new material has recently been added to the Bornean ophidian collections from the 1950's to the present through collecting programs in Sarawak and Sabah initiated by the Field Museum of Natural History in Chicago (R. F. Inger) and the Museum of Zoology, Universiti Kebangsaan Malaysia, Sabah Campus.

MATERIALS AND METHODS

This checklist is based on surveys of the literature and computerised lists obtained from museum collections made since De Haas (1950) and Haile (1958). Specimens listed from the Field Museum of Natural History (FMNH) and National Museum of Natural History, Smithsonian Institution (USNM) or the Sarawak Museum (SMK) were all examined and identified by R. F. Inger of the Field Museum, while all specimens reported from the collections of the Universiti Kebangsaan Malaysia, Sabah Campus (UKMS), Sabah State Museum (SSM), and Kinabalu Park (KNP) were examined and identified by the author. Questionable species records have been omitted where no independent corroboration is available, as in the case of *Trimere-surus borneensis*, which was reported as doubtful by Haile (1958) and whose status remains in question.

The most significant of the new collections have been assembled by the Field Museum of Natural History, Chicago (FMNH) and to a lesser extent by the Museum of Zoology, Universiti Kebangsaan Malaysia, Sabah Campus (UKMS) over the past 20 years. Although entirely from the northern Bornean States of Sabah and Sarawak, these collections provide substantial new information on species distributions.

The nomenclature used in this checklist is derived principally from De Haas (1950), Haile (1958), Gyi (1970) and Tweedie (1983), with assistance in specialized groups from publications by Malnate (1960), Inger & Marx (1965), Hoge & Romano-Hoge (1981) and Kharin (1984).

For convenience, the classification of Families follows the arrangement used by McDowell (1987). Species have been arranged alphabetically under each subfamily. I have refrained from comment on systematic arrangement except where recent publications have suggested a nomenclatural change, e.g. for the species *Lapemis hardwickii* = *Lapemis curtus* (Gray) (fide Voris & Gritis, 1990); or for the genus *Hydrophis* = *Leioselasma* (fide Kharin, 1984).

The synonymy is in a summary form, in which reference is made to the original description, followed by de Haas (1950) and Haile (1958), as well as by any other publication relevant to the most recent taxonomic status of the species. References to specimens are given in parentheses referring either to the institution where the specimens are held (e.g. FMNH), or to a published account, e.g., (12) in which the number refers to an entry in the Literature Cited section. New records in the checklist are designated exclusively by museum identification references, (e.g., FMNH, UKMS) without accompanying citation from the literature, to indicate that the species has not been previously reported from the locality mentioned.

DISCUSSION

Biogeographically, the herpetofauna of Borneo is an integral part of Sundaland, and is also related to the fauna of mainland Southeast Asia (Inger & Marx, 1965). In den Bosch (1985) compared faunal resemblance factors for snakes between various components of the Malaysian Archipelago, and found that faunal resemblance between Borneo, Sumatra and the Malay Peninsula is approximately two times greater than that existing between Borneo and its two nearest neighbours, Sulawesi and the Philippines. Only about one-third of the Bornean snake fauna is endemic to the island, and perhaps only one genus, *Calamaria*, appears to have a major centre of evolution there (Inger & Marx, 1965). A majority of the endemic species are from just three genera: *Calamaria*, *Amphiesma* and *Oligodon*. Of the latter two, *Oligodon* has more species in Borneo than elsewhere in Southeast Asia.

Distribution of species within the areas of Borneo appears non-uniform, as less than 40% of the snake fauna is common to Sabah, Sarawak and Kalimantan. This imbalanced distribution is largely the result of uneven collecting efforts. Obvious omissions, such as the lack of a record for *Ramphotyphlops braminus* from Kalimantan support this view. Undeniably, the fauna of Sabah and Sarawak has been the most intensively studied, with Kalimantan specimens generally not as well represented in collections. Collecting intensity has been high in the two Malaysian states by the Sarawak Museum, the British Museum and the Field Museum of Natural History over the past 50 years. There are however anomalies in the apparent distribution of species which are probably not entirely attributable to collecting bias. For example, Sabah possesses three times the number of exclusive records as Sarawak, and more than four times that of Kalimantan. The five snake species known exclusively from Mt. Kinabalu, which has always been considered a center of endemism, contribute only slightly to this phenomenon. Furthermore, comparison of the three Bornean states shows little overlap (four species) in terms of shared species between Sabah and Kalimantan, even though the former shares 34 species with Sarawak, and Sarawak 10 species with Kalimantan. At first glance the current political division of Borneo might seem to have little biogeographical significance. Nevertheless, these political boundaries have been drawn to a large extent based upon geographical features, such as the Klingkang and Niuwenhuis Mountains dividing most of Sarawak and Kalimantan (except for the westernmost region). Secondly, the areas of Sabah contiguous with Kalimantan (eastern Sabah), while not separated by mountains, represent a zone of high geologic activity which might have functioned as a barrier to impede species dispersal. There is good evidence that eastern Sabah has been an area of considerable instability, experiencing significant marine intrusions, repetitive cycles of uplift and subsidence as well as significant volcanism since Miocene times (Hamilton, 1979; Tongkul, 1990). Thus the dispersal of land snakes into eastern Sabah may have been affected by instability within this geological area, possibly causing a historical constriction of the dispersal routes to and from Kalimantan through a narrow inland

corridor (bordered approximately by the Crocker, Maitland and Wittl Ranges). Interestingly, 1) all four species common only to Sabah and Kalimantan have been found on Sabah's west coast, and 2) initial results show comparatively higher snake diversity on the west vs. the east coast of Sabah. Further collecting is however required in order to determine whether geological or collecting history is more relevant to the current problem.

Borneo's marine snake fauna is evidently only slightly less diverse than that of Peninsular Malaysia, with the number of species (19) forming more than two-thirds of the number that have been reported from the Straits of Malacca (24 species: Stuebing & Voris, 1990). Substantial collections made recently from the west coast of Sabah have not altered this view. It is likely that collections from Borneo's eastern coasts may not produce any significant change in the record, based on the high degree of species overlap between western Borneo and Sulawesi (Inden Bosch, 1985).

There remains a dearth of ecological information on Bornean snakes. Recent studies of the anurans of northwestern Borneo (Inger & Stuebing, in press) have indicated distinct altitudinal zonation in this group, as well as an increased tendency towards endemism within the montane fauna. Similar patterns may exist among the snakes, as indicated by the recent discovery on Mt. Lumaku (Sipitang) of three specimens of *Oreocalamus hanitschi*, whose only previously known Bornean locality was Mt. Kinabalu. Another area of interest for the future is community structure. Now that some progress in obtaining reasonably large samples has been achieved, one unusual feature of forest floor snake communities that is evident is an apparently large number of invertebrate predators (R. F. Inger, pers. comm.). An investigation of resource partitioning among the members of this community could shed light on rather striking differences in abundance and diversity between habitats.

SYSTEMATICS

Family Typhlopidae

Ramphotyphlops braminus (Daudin)

Eryx braminus Daudin, 1803, *Hist. Nat. Rept.*, 7: 279.

Typhlops braminus - De Haas, 1950: 514; Haile, 1958: 766.

Ramphotyphlops braminus - Tweedie, 1983: 25.

Type locality. - Vizagapatam, India.

Distribution in Borneo. - SABAH: Kota Kinabalu (UKMS), Labuan (22). SARAWAK: Buntok (30), Kuching (30), Samarinda (30), Singkawang (30).

Ramphotyphlops lineatus (Schlegel)

Typhlops lineatus Schlegel, 1939, *Abbild. Amphib.*, 39: Pl. 32, Figs. 32-34; De Haas, 1950: 518; Haile, 1958: 766.

Ramphotyphlops lineatus Robb, 1966: 676.

Type locality. - Java.

Distribution in Borneo. - SARAWAK: Mt. Poi (33), Pesu River (FMNH). KALIMANTAN: Singkawang (30).

***Ramphotyphlops lorenzi* Werner**

Typhlops lorenzi Werner, 1909, *Mitt. Naturh. Mus. Hamburg*, 26: 209; De Haas, 1950: 518; Haile, 1958: 766.

Typhlina (= *Ramphotyphlops*) *lorenzi* - McDowell, 1974: 40.

Type locality. - Miang Besar Island, East coast of Borneo.

Distribution in Borneo. - SABAH: Miang Besar Island (8, 21).

***Ramphotyphlops olivaceus* (Gray)**

Onychophis olivaceus Gray 1845, *Cat. Liz. Brit. Mus.*: 133.

Typhlops olivaceus - De Haas, 1950: 519; Haile, 1958: 766.

(*Typhlina*) (= *Ramphotyphlops*) *olivace* - McDowell, 1974: 43.

Type locality. - Philippines.

Distribution in Borneo. - SARAWAK: Baram (22). KALIMANTAN: Sangihe Island (9).

***Typhlops koekkoeki* Brongersma**

Typhlops koekkoeki Brongersma, 1934, *Zool. Meded.*, 17: 186, Figs. 13-15; De Haas, 1950: 517.

Type locality. - Bunju Island, Kalimantan.

Distribution in Borneo. - KALIMANTAN: Bunju Island.

***Typhlops muelleri* Schlegel**

Typhlops muelleri Schlegel, 1839, *Abbild. Amphib.*: 39, Pl. 32, Figs. 25-28.

Typhlops diardii muelleri - De Haas, 1950: 515.

Typhlops diardi - Haile, 1958: 766. *Typhlops muelleri* - Rieppel, 1979: 162.

Type locality. - Padang, West Sumatra.

Distribution in Borneo. - BORNEO.

Family Uropeltidae

Subfamily Cyliodrophinae

***Cyliodrophis lineatus* Blanford**

Cyliodrophis lineatus Blanford, 1881, *Proc. Zool. Soc. London*: 217, Pl. 20; De Haas, 1950: 526; Haile, 1958: 766.

Type locality. - "Singapore" (in error).

Distribution in Borneo. - SARAWAK: Matang (30), Pangkalan Ampat (30).

***Cylindrophis rufus* (Laurenti)**

Anguis ruffa Laurenti, 1768 *Syn. Rept.*: 71.

Cylindrophis rufus rufus - De Haas, 1950: 527.

Cylindrophis rufus - Haile, 1958: 766.

Type locality. - “Surinami: (in error)

Distribution in Borneo. - SARAWAK: Baram (30, 33), Bintulu Dist. (FMNH), Labang River (FMNH), Kuching (9, 33) (FMNH), Mt. Gading (33), Pesu River (FMNH) (USNM). KALIMANTAN: Pontianak Dist. (USNM), Tenggarong (USNM).

Family Boidae

***Python curtus* Schlegel**

Python curtus Schlegel, 1872, *De Dierentuin, Rept.*: 54; De Haas, 1950: 522; Haile, 1958: 766.

Type locality. - Sumatra.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Purulon River (R. F. Inger, pers. comm.). SARAWAK: Kuching (30) (FMNH), Lawas (30), Sibul (30). KALIMANTAN: Telang (30).

***Python reticulatus* (Schneider)**

Boa reticulatus Schneider, 1801, *Hist. Amph.*, 2: 264.

Python reticulatus - De Haas, 1950: 523; Haile, 1958: 766.

Type locality. - Unknown

Distribution in Borneo. - SABAH: Dewhurst Bay (FMNH), Gaya Island (UKMS), Sandakan (30) (FMNH), Kalabakan (FMNH), Malutut River (FMNH). SARAWAK: Baram (9), Kuching (22) (FMNH), Lawas (FMNH), Lundu (30), Mengiong River (FMNH) (USNM), Mulu (1), Niah (FMNH), Oya (30), Pesu River (FMNH), Rejang (30), Seran River (FMNH). KALIMANTAN: Balikpapan (30), Banjarmasin (30), Bulangan River (30), Muara Djawa (30), Pontianak Dist. (USNM), Samarinda (30) (FMNH), Singkawang (30).

Remarks. - I have encountered this snake in Danum Valley, the Klias River and Marak-Parak.

Family Xenopeltidae

***Xenopeltis unicolor* Reinwardt**

Xenopeltis unicolor Reinwardt, 1827, In: *F. Boie, Isis von Oken*, 20: 564; De Haas, 1950: 527; Haile, 1958: 766.

Type locality. - Java

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Jesselton [Kota Kinabalu] (FMNH), Penampang (UKMS), Sandakan (FMNH). SARAWAK: Kuching (30, 33), Labang River (FMNH), Mengiong River (FMNH), Seran River (FMNH), Niah (FMNH), Santubong

(FMNH), Balikpapan (30). KALIMANTAN: Banjarmasin (30), Bulangan River (30), Kapuas River (9, 30), Kutei (30), Samarinda (USNM), Singkawang (30).

Family Acrochordidae

***Acrochordus granulatus* (Schneider).**

Hydrus granulatus Schneider, 1799, *Hist. Amph.*, 1: 243

Acrochordus granulatus granulatus - De Haas, 1950: 529

Acrochordus granulatus - Haile, 1958: 766.

Chersydrus granulatus - Tweedie, 1983: 34

Acrochordus granulatus - McDowell, 1979: 79

Type locality. - India.

Distribution in Borneo. - SABAH: Buntal, (30), Kimanis Bay (FMNH) (UKMS), Marudu Bay (41), Sandakan (USNM).

***Acrochordus javanicus* Hornstedt**

Acrochordus javanicus Hornstedt 1787, *Kongl. Vet. Acad. Handl.*, Stockholm, 8: 307, Pl. 12; De Haas, 1950: 530; Haile, 1958: 766.

Acrochordus javanicus - McDowell, 1979: 75.

Type locality. - Bantam, W. Java.

Distribution in Borneo. - SARAWAK: Baram District (30), Mahakam River (USNM), Moarapau (USNM), Sadong River (30) (FMNH), Tayan (USNM).

Family Colubridae

Subfamily Xenodermatinae

***Stoliczkaia borneensis* Boulenger**

Stoliczkaia borneensis Boulenger 1899, *Ann. Mag. Nat. Hist.*, (7) 4: 452.

Stoliczkaia borneensis - De Haas, 1950: 530; Haile, 1958: 766.

Type locality. - Mt. Kinabalu, Sabah

Distribution in Borneo. - SABAH: Mt. Kinabalu (9, 30, 36), Sg. Rompon, Trus Madi (FMNH).

***Xenelaphis ellipsifer* Boulenger**

Xenelaphis ellipsifer Boulenger 1900, *Proc. Zool. Soc. London*, 184, Pl. 16; De Haas 1950 : 545; Haile 1958 : 767.

Type locality. - Sarawak River

Distribution in Borneo. - SABAH: Mt. Kinabalu (30). SARAWAK: Pangkalan Amat (30), Sarawak River (9, 30).

***Xenelaphis hexagonotus* (Cantor)**

Coluber hexahonotus Cantor, 1847, *J. Asiatic Soc. Bengal*, 16: 921.

Xenelaphis hexagonotus - De Haas, 1950; Haile, 1958: 767.

Type locality. - Penang (Great) Hill, Penang

Distribution in Borneo. - SARAWAK: Baram (9, 30, 33), Kuching (30), Lundu (30), Rejang Valley (30), Sanjawan River, Lawas (FMNH), Subis (FMNH), Tangap (FMNH). KALIMANTAN: Sebruang Valley (30).

***Xenodermus javanicus* Reinhardt**

Xenodermus javanicus Reinhardt 1836, *Overs. Vid. Selsk. Forh.*, 6; De Haas, 1950: 530; Haile, 1958: 766.

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH). SARAWAK: Kuching (30), Labang River (FMNH), Mengiong River (FMNH), Pesu River (FMNH).

Subfamily Pareatinae

***Aplopeltura boa* (Boie)**

Amblycephalus boa H. Boie 1828, *Isis von Oken*, 21: 1034.

Haplopeltura boa - De Haas, 1950: 528; Haile, 1958: 66.

Alopeltura boa - Tweedie, 1983: 39.

Type locality. - Parang, W. Java; Tapos, Mt. Pangrango.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Maliau Basin (FMNH), Mendolong (FMNH), Purulon River (FMNH), Sandakan Bay (30), Sepagaya (FMNH), Togopi River (FMNH). SARAWAK: Baram (30), Kuching (30), Niah (FMNH), Pangkalan Ampat (30), Saribas (30), Segaham River (FMNH), Seran River (FMNH).

***Pareas carinatus* (Boie)**

Pareas carinata H. Boie, 1828. *Isis von Oken*, 21: 1035. (ICZN Opinion 963).

Pareas carinatus carinatus - De Haas, 1950: 528.

Pareas carinatus - Haile, 1958: 766.

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Labuan (30). KALIMANTAN: Banjarmasin (30), Samarinda (30), Singkawang (30).

***Pareas laevis* (Boie)**

Amblycephalus laevis F. Boie 1827, *Isis von Oken*, 20: 520.

Pareas laevis - De Haas, 1950: 528; Haile, 1958: 766.

Type locality. - Java.

Distribution in Borneo. - SABAH: Bongon (30), Mendolong (FMNH), Mt. Kinabalu (30), Purulon River (FMNH). SARAWAK: Baram (30), Bukit Brayong (FMNH), Kidi Dist. (30), Kuching (30) (FMNH), Labang River (FMNH), Limbang (30), Mengiong River (FMNH), Mt. Penrissen (30), Pangkalan Ampat (22). KALIMANTAN: Banjarmasin (30).

***Pareas malaccanus* (Peters)**

Asthenodipsas malaccana Peters, 1864, *Monats. Akad. Wiss. Berlin*, 273, Pl. Fig. 3.

Pareas malaccanus - De Haas, 1950: 529; Haile, 1958: 766.

Type locality. - Malacca.

Distribution in Borneo. - SABAH: Bongon (30). SARAWAK: Mt. Dulit (30). KALIMANTAN: Samarinda (30).

***Pareas nuchalis* (Boulenger)**

Amblycephalus nuchalis Boulenger, 1900, *Proc. Zool. Soc. London*, 185, Pl. 17, Fig. 1.

Pareas nuchalis - De Haas, 1950: 529; Haile, 1958: 766.

Type locality. - Matang, Kidi Dist., Sarawak.

Distribution in Borneo. - SABAH: Purulon River (FMNH). SARAWAK: Matang (22), Saribas (30) (FMNH), Niah (FMNH), Pengkalan Lubang (FMNH), Rejang River (30), Segaham River (FMNH), Seran River (FMNH), Tanjung Datu (FMNH), Trusan River (30). KALIMANTAN: Balikpapan (30), Banjarmasin (30), Kapuas River (9, 30), Kendawanga River (USNM), Pontianak (30), Samarinda (30), Singkawang (30).

***Pareas vertebralis* (Boulenger)**

Amblycephalus vertebralis Boulenger, 1900, *Ann. Mag. Nat. Hist.*, 7(5): 307.

Pareas vertebralis - De Haas, 1950: 529; Haile, 1958: 766.

Type locality. - Maxwell's Hill, Larut, Perak, Malaya.

Distribution in Borneo. - SABAH: Poring, Mt. Kinabalu (KNP).

Subfamily Homalopsinae

***Cerberus rynchops* (Schneider)**

Hydrus rynchops Schneider, 1799, *Hist. Amph.*, 1: 246.

Cerberus rynchops rynchops - De Haas, 1950: 577

Cerberus rhynchops - Haile, 1958: 769.

Type locality. - Ganjam, India.

Distribution in Borneo. - SABAH: Dewhurst Bay (FMNH), Labuan (30), Pulau Tiga (UKMS), Sandakan Bay (30), Tuaran (FMNH). SARAWAK: Buntal (30), Labang River (FMNH), Kuching (30, 33) (FMNH), Santubong (FMNH), Seratok (33), Sibul (30) (USNM). KALIMANTAN: Banjarmasin (30), Bulangan River (30), Pontianak River (30), Samarinda (30), Singkawang (30).

***Enhydris alternans* (Reuss)**

Brachyorrhos alternans Reuss, 1834, *Mus. Senckenb.*, 1: 155, Pl. 9, Fig. 3.

Enhydris alternans - De Haas, 1950: 575; Haile, 1958: 769.

Type locality. - Java.

Distribution in Borneo. - SARAWAK: Kuching (30).

***Enhydris doriae* (Peters)**

Homalophis doriae Peters, 1871, *Monats. Akad. Wiss. Berlin*, 577.

Enhydris doriae - De Haas, 1950: 576; Haile, 1958: 769.

Type locality. - Sarawak.

Distribution in Borneo. - SABAH: Sandakan bay (30). SARAWAK: Baram (30), Kuching (30), Labang River (FMNH), Mengiong River (FMNH). KALIMANTAN: Kapuas River (40).

***Enhydris enhydris* (Schneider)**

Hydrus enhydris Schneider, 1799, *Hist. Amh.*, 1: 245.

Enhydris enhydris enhydris - De Haas, 1950: 576.

Enhydris enhydris - Haile, 1958: 769.

Type locality. - "Indiae orientalis"

Distribution in Borneo. - SARAWAK: Saribas (30), Simanggang (30). KALIMANTAN: Banjarmasin (30), Kapuas River (9, 30), Montrado (30), Singkawang (30).

***Enhydris plumbea* (Boie)**

Homalopsis plumbea H. Boie In: F. Boie, 1827 *Isis von Oken*, 20: 550.

Enhydris plumbea - De Haas, 1950: 576; Haile, 1958: 769.

Type locality. - Java.

Distribution in Borneo. - SABAH: Darau School (FMNH), Kota Kinabalu (UKMS), Labuan (30), Penampang (SMKK), Ranau (FMNH), Menggatal (UKMS) Tuaran (FMNH). KALIMANTAN: Banjarmasin (30), Samarinda (30).

***Enhydris punctata* (Gray)**

Phytolopsis punctata Gray, 1849, *Cat. Snakes Brit. Mus.*, 68

Enhydris punctata - De Haas, 1950: 577; Haile, 1958: 769.

Type locality. - India.

Distribution in Borneo. - KALIMANTAN: Singkawang (30).

***Fordonia leucobalia* (Schlegel)**

Homalopsis leucobalia Schlegel, 1837, *Phys. Serp.*, 2: 345, Pl. 13, Figs. 8, 9.

Fordonia leucobalia - De Haas, 1950: 578; Haile, 1958: 769.

Type locality. - Timor.

Distribution in Borneo. - SARAWAK: Karakit (FMNH), Kuching (30) (FMNH), Niah (30), Nyabau River (FMNH), Santubong (30), Seratok (33), Tuang Simaranan (FMNH). KALIMANTAN: Banjarmasin (30), Pontianak (30).

***Homalopsis buccata* (Linnaeus)**

Coluber buccata Linnaeus, 1758, *Syst. Nat.*, 10th ed.: 217.

Homalopsis buccata - De Haas, 1950: 577; Haile, 1958: 769.

Type locality. - India.

Distribution in Borneo. - SABAH: Labuan (30). SARAWAK: Buntal (30), Kuching (30), Rejang River (30). KALIMANTAN: Banjarmasin (30), Bulangan River (30), Landak River (30) (USNM), Mahakam River (USNM), Montrado (30), Pontianak (30), Sebruang Valley (30), Singkawang (30).

Subfamily Lycodontinae

***Lycodon albofuscus* (Dumeril, Bibron & Dumeril)**

Sphecodes albo-fuscus Dumeril, Bibron & Dumeril, 1854, *Erp. et. Gen.*, 7: 394.

Lycodon albofuscus - De Haas, 1950: 550; Haile 1958: 394.

Type locality. - Sumatra.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Mt. Kinabalu (22, 30, 36). SARAWAK: Kuching (30), Rejang River (30).

***Lycodon effraenis* Cantor**

Lycodon effraenis Cantor, 1847, *J. Asiatic Soc. Bengal*, 16 : 917, Pl. 40, Fig. 2.

Lycodon effrenis - De Haas, 1950: 551.

Lycodon effraenis - Haile, 1958: 768.

Type locality. - Penang (Great) Hill, Penang.

Distribution in Borneo. - SARAWAK: Baram (30), Labang River (FMNH), Seran River (FMNH), Tangap River (FMNH). KALIMANTAN: Kendawangan (USNM), Singkawang (30).

***Lycodon subcinctus* Boie**

Lycodon subcinctus F. Boie, 1827, *Isis von Oken*, 20 : 551; De Haas, 1950: 551; Haile, 1958: 768.

Type locality. - Java.

Distribution in Borneo. - SABAH: Bundu Tuhan (USNM), Danum Valley (FMNH), Sandakan (30), Sepagaya (FMNH). SARAWAK: Kuching (30), Mengiong River (FMNH), Mulu (1), Niah (FMNH), Pesu River (FMNH). KALIMANTAN: Bulangan River (30).

***Oligodon annulifer* Boulenger**

Simotes annulifer Boulenger, 1893, *Proc. Zool. Soc. London*, 524.

Oligodon annulifer annulifer - De Haas, 1950: 554.

Oligodon annulifer - Haile, 1958: 767.

Type locality. - Sabah (North Borneo).

Distribution in Borneo. - SABAH.

***Oligodon cinereus* (Günther)**

Simotes cinereus Günther, 1864, *Rept. Brit. India*, 215.

Oligodon cinereus - De Haas, 1950: 555; Haile, 1958: 767.

Type locality. - Cambodia.

Distribution in Borneo. - SABAH: Bongon (30).

***Oligodon everetti* Boulenger**

Oligodon everetti Boulenger, 1893, *Proc. Zool. Soc. London*, 524; De Haas, 1950: 555; Haile, 1958: 767.

Type locality. - Mt. Kinabalu, Sabah.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Malutut (FMNH), Mt. Kinabalu (9, 22, 30, 36). KALIMANTAN: Banjarmasin (30), Tandjong (30).

***Oligodon octolineatus* (Schneider)**

Elaps octolineatus Schneider, 1801, *Hist. Amph.*, 2: 299.

Oligodon octolineatus - De Haas, 1950: 556; Haile, 1958: 767.

Type locality. - Borneo (via lectotype designation).

Distribution in Borneo. - SABAH: Apin-Apin (FMNH), Kiansom (SSM), Kota Kinabalu (UKMS), Mt. Kinabalu (30, 36), Sandakan (30). SARAWAK: Baram River (9, 22, 33), Kuching (30, 33), Mt. Dulit (30), Mt. Gading (33), Rejang River (30), Santubong (30). KALIMANTAN: Banjarmasin (30), Duri River (30), Mahakam River (USNM), Montrado (30), Samarinda (30), Singkawang (30), Sintang (30).

***Oligodon purpurascens* (Schlegel)**

Xenodon purpurascens Schlegel, 1837, *Phys. Serp.*, 2: 90, Pl.3, Figs. 13, 14.

Oligodon purpurascens purpurascens - De Haas, 1950: 557.

Oligodon purpurascens - Haile, 1958: 767.

Type locality. - Java.

Distribution in Borneo. - SABAH: Crocker Range, Tambunan (UKMS), Labuan (30), Mt. Kinabalu (22, 30, 33), Ranau (FMNH). SARAWAK: Kidi Dist. (30), Kuching (30), Matang (30), Paku (30), Pangkalan Ampat (18), Penrissen Rd. (30), Saribas (30). KALIMANTAN: Buntok (30), Samarinda (30).

***Oligodon subcarinatus* (Günther)**

Simotes subcarinatus Günther, 1872, *Proc. Zool. Soc. London*, 595, Pl. 39, Fig. B.
Oligodon subcarinatus - De Haas, 1950: 558; Haile, 1958: 767.

Type locality. - Sarawak.

Distribution in Borneo. - SABAH: Mendolong (FMNH). SARAWAK: Kuching (30), Matang (30), Mengiong River (FMNH), Nyabau River (FMNH).

***Oligodon vertebralis* (Günther)**

Simotes vertebralis Günther, 1865, *Ann. Mag. Nat. Hist.*, 3(15): 91.
Oligodon vertebralis - De Haas, 1950: 558; Haile, 1958: 767.

Type locality. - Banjarmasin, Kalimantan.

Distribution in Borneo. - SABAH: Mt. Kinabalu (22, 30, 36). KALIMANTAN: Banjarmasin (30).

***Psammodynastes pictus* Günther**

Psammodynastes pictus Günther, 1858, *Cat. Col. Snakes Brit. Mus.*, 251; De Haas, 1950: 584; Haile, 1958: 769.

Type locality. - Sumatra.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Deramakot (FMNH), Dewhurst Bay (FMNH), Jesselton [Kota Kinabalu] (FMNH), Sepagaya (FMNH), Kalabakan (FMNH). SARAWAK: Kidi Dist. (30), Kuching (30), Mt. Dulit (30), Labang River (FMNH), Niah (FMNH) (UKMS) (USNM), Nyabau River (FMNH), Pesu River (FMNH), Rejang River (30), Seran River (FMNH), Tangap River (FMNH). KALIMANTAN: Balikpapan (30), Kapuas River (9, 30), Nunukan Island (FMNH), Telang (30).

***Psammodynastes pulverulentus* (Boie)**

Psammophis pulverulenta - H. Boie In: F. Boie, 1827, *Isis von Oken*, 20: 547.
Psammodynastes pulverulentus - De Haas, 1950: 584; Haile, 1958: 769.

Type locality. - Java.

Distribution in Borneo. - SABAH: Deramakot (FMNH), Danum Valley (FMNH) Jesselton [Kota Kinabalu] (FMNH), Mendolong (FMNH), Mt. Kinabalu (22, 30, 36), Purulon River (FMNH), Quoin Hill (SSM), Sinsuron (FMNH). SARAWAK: Mengiong River (FMNH), Mt. Gading (33), Mulu (1), Mt. Penrissen (33), Niah (FMNH), Pangakalan Ampat (30), Seran River (FMNH). KALIMANTAN: Kapuas River (9).

Subfamily Colubrinae

***Ahaetulla fasciolata* (Fischer)**

Tragops fasciolatus Fisher, 1885, *Arch. Naturgesch. Berlin*, 51: 66, Pl. 5, Fig. 4.
Dryophis fasciolatus - De Haas, 1950: 584; Haile 1958: 769.
Ahaetulla fasciolata - Tweedie, 1983: 84.

Type locality. - Kalimantan (S.E. Borneo).

Distribution in Borneo. - SARAWAK: Balui River (USNM), Bintulu (FMNH), Baram River (5, 30), Kelabit Plateau (FMNH), Kuching (30), Mengiong River (FMNH), Niah (FMNH), Segaham River (FMNH).

***Ahaetulla prasina* (Boie)**

Dryophis prasinus F. Boie, 1827, *Isis von Oken*, 20: 545.

Dryophis prasinus prasinus - De Haas, 1950: 585

Dryophis prasinus - Haile, 1958: 769

Ahaetulla prasina - Tweedie, 1983: 82.

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Bundu Tuhan (USNM), Kota Kinabalu (UKMS), Kudat (FMNH), Mt. Kinabalu (33), Marak-Parak (FMNH), Purulon River (FMNH), Ranau (FMNH), Sandakan Bay (30), Sepagaya (FMNH). SARAWAK: Banting (30), Baram River (9, 30), Bario (FMNH), Belaga (FMNH), Bintulu (FMNH), Kapit (USNM), Kelabit Plateau (FMNH), Lundu River (FMNH), Matang (FMNH), Mengiong River (FMNH), Mt. Dulit (30), Mt. Gading (33), Mulu (1), Pesu River (FMNH), Sadong (30). KALIMANTAN: Bulangan River (30), Buntok (30), Busam (30), Bandjarmasin (30), Kapuas River (9, 30), Landak (30), Mahakam River (USNM), Pontianak (30), Sama River (USNM), Samarinda (30), Sebruang Valley (30), Singkawang (30), Sintang (30), Tegora (30).

***Boiga cynodon* (Boie)**

Dipsa cynodon H. Boie In: F. Boie, 1827, *Isis von Oken*, 20: 549.

Boiga cynodon - De Haas, 1950: 580; Haile, 1958: 769.

Type locality. - Sumatra.

Distribution in Borneo. - SABAH: Kalabakan (UKMS), Keningau (UKMS), Kota Kinabalu (UKMS), Malutut river (FMNH), Sepilok (SSM), Pulau Sebatik (FMNH), Tuaran (FMNH). SARAWAK: Baram (9, 30), Bintulu (FMNH), Busau (30), Kuching (30), Labang River (FMNH), Mengiong River (FMNH), Niah Santubong (30), Segaham River (FMNH), Seran River (FMNH), Tangap River (FMNH). KALIMANTAN: Balikpapan (30), Kapuas River (7, 21), Samarinda (30), Sebruang Valley (30).

***Boiga dendrophila* (Boie)**

Dipsas dendrophilus F. Boie, 1827, *Isis von Oken*, 20: 549.

Boiga dendrophila dendrophila - De Haas, 1950: 580;

Boiga dendrophila - Haile, 1958: 769

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Deramakot (FMNH), Dewhurst Bay (FMNH), Kalabakan (FMNH), Kota Kinabalu (UKMS), Kudat (30), Labuan (30), Gaya Island, (UKMS), Ranau (USNM), Sandakan (30) (FMNH), Sepagaya (FMNH), Telupid (UKMS). (I have also seen this species on Pulau Tiga Park and in Tawau Hills Park, Sabah). SARAWAK: Bintulu (FMNH), Bukit Berayong (FMNH), Kuching (30), Labang River (FMNH), Linoi & Baloi River (USNM), Mengiong River (FMNH), Nanga Pelagus (USNM), Pesu River (FMNH), Santubong (30), Seran River (FMNH), Subis (FMNH), Tangap (FMNH),

Tubau (FMNH). KALIMANTAN: Balikpapan (30), Bandjarmasin (30), Bulangan River (22), Mahakam River (USNM), Muara Jawa (30), Pontianak River (30), Samarinda (30), Sebruang Valley (30), Singkawang (30), Sintang (30).

***Boiga drapiezii* (Boie)**

Dipsas drapiezii H. Boie In: F. Boie, 1827, *Isis von Oken*, 20: 549

Boiga drapiezii - De Haas, 1950: 582; Haile, 1958: 769.

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Ranau (FMNH) (USNM), Sandakan (30). SARAWAK: Baram (30), Kuching (30), Mulu (1), Mengiong river (FMNH), Niah (FMNH), Pangkalan Ampat (30), Pesu River (FMNH), Seran River (FMNH), Landak River (USNM).

***Boiga jaspidea* (Dumeril, Bibron & Dumeril)**

Triglyphodon jaspideum Dumeril, Bibron, Dumeril 1854, *Erpet. Gen.*, 7: 1093

Boiga jaspidea De Haas, 1950: 583; Haile, 1958: 769

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Labuan (30), Sandakan (30). SARAWAK: Baram (30), Kuching (30), Labang River (FMNH), Mulu (1), Pangkalan Ampat (30), Segaham River (FMNH), Saribas (30). KALIMANTAN: Balikpapan (30).

***Boiga nigriceps* (Günther)**

Dipsas nigriceps Günther, 1863, *Ann. Mag. Nat. Hist.*, 3(12): 359.

Boiga nigriceps nigriceps De Haas, 1950: 583.

Boiga nigriceps Haile, 1958: 769.

Type locality. - Siberut Is., Mentawi Is.

Distribution in Borneo. - SABAH: Bongon (30), Danum Valley (FMNH). SARAWAK: Bario (FMNH), Labang River (FMNH), Pesu River (FMNH), Seran River (FMNH).

***Calamaria battersbyi* Inger & Marx**

Calamaria battersbyi Inger & Marx, 1965, *Fieldiana, Zoology*, 49: 208.

Type locality. - Tandjong, Kalimantan.

Distribution in Borneo. - KALIMANTAN: Tandjong.

***Calamaria bicolor* Dumeril, Bibron & Dumeril**

Calamaria bicolor Dumeril, Bibron, Dumeril 1854, *Erp. et. Gen.*, 7: 78; De Haas, 1950: 564; Haile, 1958: 767.

Type locality. - Borneo.

Distribution in Borneo. - SABAH: Mt. Kinabalu (30, 36). SARAWAK: Entoyut River (14), Kelabit Plateau (16) (FMNH), Kuching (16), Matang (16), Niah (16) (FMNH), Paku (16, 30),

Tapuh. KALIMANTAN: Kedup (16), Kapuas River (16), Mahakam River (16), Muara Teweh (16), Nanga Padang (16), Singkawang (30), Tayan (16) (USNM).

***Calamaria borneensis* Bleeker**

Calamaria borneensis Bleeker, 1860, *Nat. Tijdschr. Ned. Ind.*, 21: 296; De Haas, 1950: 564; Haile, 1958: 767.

Type locality. - Sintang, W. Kalimantan.

Distribution in Borneo. - SABAH: Kimanis (16) (FMNH). SARAWAK: Baram (FMNH), Kelabit Plateau (FMNH), Kuching (30), Marudi (30), Matang (30), Mt. Gading (33), Mulu (1), Paku (22), Pesu River (FMNH), Simanggang (30). KALIMANTAN: Nanga Padang (16), Sintang (9, 16, 30).

***Calamaria everetti* Boulenger**

Calamaria everetti 1893, *Proc. Zool. Soc. London*, 1893: 525; De Haas, 1950: 567; Haile, 1958: 768.

Type locality. - Sarawak.

Distribution in Borneo. - SABAH: Dewhurst Bay (16) (FMNH), Pahlawan (9). SARAWAK: Baram (16, 30), Kelabit Plateau (16) (FMNH), Kuching (16), Niah (16), Pangkalan Ampat (30), Senah River (16), Mt. Tibang (16). KALIMANTAN: Nunukan River (16), Sembakung River (16).

***Calamaria gervaisii* Dumeril, Bibron & Dumeril**

Calamaria gervaisii - Dumeril, Bibron & Dumeril, 1854, *Erpet. Gen.*, 7: 76.

Type locality. - "Java" (in error).

Distribution in Borneo. - SABAH: Danum Valley (FMNH)

***Calamaria grabowskyi* Fischer**

Calamaria grabowskyi Fischer, 1885, *Arch. Naturgesch. Berlin*, 51: 50, Pl. 4, Fig. 1; De Haas, 1950: 567; Haile, 1958: 768.

Type locality. - Telang and Tamianglayang Dist., Dusun Timur, Kalimantan.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Deramakot (16), Kedamaian (16), Kenokok (16), Mt. Kinabalu (14, 22, 30, 36), Malutut Tiver (FMNH), Mendolong (FMNH), Purulon River (FMNH), Quoin Hill (FMNH), Tenompok (16). SARAWAK: Bukit Berayong (16) (FMNH), Kelabit Plateau (16) (FMNH), Labang River (FMNH), Long Mujan (14), Niah (FMNH), Sarikei (FMNH), Seran River (16) (FMNH). KALIMANTAN: Long Petah (16), Muara Teweh (16), Tamianglayang (9, 16, 30), Telang (16).

***Calamaria gracillima* Günther**

Calamaria gracillima Günther, 1872, *Proc. Zool. Soc. London*, 1872: 594 Pl. 39, Fig. A; De Haas, 1950: 567; Haile, 1958: 768.

Type locality. - Sarawak.

Distribution in Borneo. - SARAWAK: Matang (16, 30), Tegora (30).

***Calamaria griswoldi* Loveridge**

Calamaria lumbricoidea griswoldi Loveridge, 1938, *Proc. Biol. Soc. Washington*, 51: 43; De Haas, 1950: 570;

Calamaria griswoldi - Haile, 1958: 768.

Type locality. - Luidan River, Bundu Tuhan, Sabah.

Distribution in Borneo. - SABAH: Bundu Tuhan (FMNH) (USNM), Mesilau (FMNH), Mt. Kinabalu (18, 22) (FMNH), Tenompok (18), Ranau (USNM).

***Calamaria hilleniusi* Inger & Marx**

Calamaria hilleniusi Inger & Marx 1965, *Fieldiana, Zoology*, 49: 96, Fig. 25.

Type locality. - Samarinda, Kalimantan.

Distribution in Borneo. - SABAH: Tuaran (16) (FMNH). SARAWAK: Samarinda (16) (SMK).

***Calamaria lateralis* Mocquard**

Calamaria lateralis Mocquard 1890, *Le Naturaliste* (2)12: 154 and *Nouv. Arch. Mus. Hist. Nat.* 3(2): 136, Pl. 8, Fig. 4; De Haas, 1950: 569; Haile, 1958: 768.

Type locality. - Mt. Kinabalu, Sabah.

Distribution in Borneo. - SABAH: Mt. Kinabalu (9, 16, 22, 30).

***Calamaria leucogaster* Bleeker**

Calamaria leucogaster Bleeker 1860, *Nat. Tijdschr. Ned. Ind.*, 21: 293; De Haas, 1950: 569; Haile, 1958: 768.

Type locality. - Ampatlawang, Palembang, Sumatra.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Kiau (16), Malutut Tiver (FMNH), Mt. Kinabalu (16, 30), Labuan (16, 30), Purulon River (FMNH). SARAWAK: Bidi (16), Ja'ong River (FMNH), Kindi Dist. (16), Kuching (16, 30), Lawas (14) (FMNH), Long Mujan (16), Lubok Antu (16), Matang (13, 21), Mengiong River (FMNH), Niah (16), Santubong (16), Tangap River (FMNH). KALIMANTAN: Long Petah (16), Upper Mahakam River (16).

***Calamaria lovi* Boulenger (= *lovi*)**

Calamaria lovi Boulenger, 1887, *Ann. Mag. Nat. Hist.*, 5(19): 169; De Haas, 1950: 570; Haile, 1958: 768.

Type locality. - Rejang River, Sarawak.

Distribution in Borneo. - SABAH: Kota Kinabalu (16) (FMNH). SARAWAK: Baram River (30), Labang River (FMNH), Long Mujan (FMNH), Mengiong River (FMNH), Niah (FMNH),

Pasang River (FMNH), Pesu River (FMNH), Rejang River (9, 30), Seran River (FMNH).
KALIMANTAN: Balikpapan (16), Long Petah (16), Merah River (16).

***Calamaria lumbricoidea* H. Boie**

Calamaria lumbricoidea H. Boie In: F. Boie, 1827. *Isis von Oken*, 20: 540

Calamaria lumbricoidea lumbricoidea - De Haas, 1950: 570.

Calamaria lumbricoidea - Haile, 1958: 768.

Type locality. - Java.

Distribution in Borneo. - SABAH: Bundu Tuhan (16) (USNM), Kenokok River (16), Kiau (16), Mt. Kinabalu (16), Sandakan (16), Tambunan (UKMS), Tenompok (16). SARAWAK: Baram District (16), Batu Song (16), Bidi (16), Kuching (16), Lawas (16), Matang (13), Mengiong River (FMNH), Niah (16) (FMNH), Nyabau River (FMNH), Pa Bryong (16), Pesu River (FMNH), Saribas (16). KALIMANTAN: Boven (16), Mahakam (16), Tandjong (16).

***Calamaria lumholtzi* Andersson**

Calamaria lumholtzi Andersson 1924, *Nyt Mag. Naturk. Kristiania*, 61: 123.

Calamaria lumholtzi De Haas, 1950: 570.

Calamaria lumholtzi Haile, 1958: 768.

Type locality. - Tumbangmarui, Kalimantan.

Distribution in Borneo. - KALIMANTAN: Merah River (16), Tumbang Maruwei (9, 16).

***Calamaria melanota* Jan**

Calamaria linnaei var. *melanota* Jan 1862, *Arch. Zool. Anat. Fis. Genova*, 2: 5.

Calamaria melanota - Boulenger 1894, *Cat. Sn.* 2: 349; De Haas, 1950: 571; Haile, 1958: 768.

Type locality. - Borneo.

Distribution in Borneo. - SARAWAK: Mulu (1). KALIMANTAN: Kuala Kapuan (16), Martapura (16), Pasir River (16), Tandjong (30).

***Calamaria modesta* Dumeril, Bibron & Dumeril**

Calamaria modesta Dumeril, Bibron & Dumeril, 1854, *Erp. Gen.*, 7: 74.

Type locality. - Java.

Distribution in Borneo. - SABAH: Bundu Tuhan (16) (USNM), Tenompok (16), Quoin Hill (FMNH).

***Calamaria prakkei* Van Lidth de Jeude**

Calamaria prakkei Van Lidth de Jeude, 1893, *Notes Leyden Mus.*, 15: 252; De Haas, 1950: 573; Haile, 1958: 768.

Type locality. - Sandakan Bay, Sabah.

Distribution in Borneo. - SABAH: Sandakan Bay (9, 16, 30).

***Calamaria rebentischi* Bleeker**

Calamaria rebentischi Bleeker, 1860, *Nat. Tijdschr. Ned. Ind.*, 21: 293; De Haas, 1950: 573; Haile, 1958: 768.

Type locality. - Singkawang, W. Kalimantan

Distribution in Borneo. - KALIMANTAN: Singkawang (9, 16, 30).

***Calamaria schlegeli* Dumeril, Bibron & Dumeril**

Calamaria Schlegeli Dumeril, Bibron & Dumeril, 1854, *Erp. et. Gen.*, 7: 81; De Haas, 1950: 573; Haile, 1958: 768.

Type locality. - Borneo.

Distribution in Borneo. - SABAH: Mt. Kinabalu (16). SARAWAK: Balui River (USNM), Labang River (FMNH), Mengiong River (FMNH), Nyabau River (FMNH), Seran River (FMNH).

***Calamaria schmidtii* Marx & Inger**

Calamaria schmidtii Marx & Inger, 1955, *Fieldiana, Zoology*, 37: 197, Fig. 27.

Type locality. - Bundu Tuhan, Mt. Kinabalu, Sabah.

Distribution in Borneo. - SABAH: Bundu Tuhan (16) (USNM), Mt. Kinabalu (22).

***Calamaria suluensis* Taylor**

Calamaria suluensis Taylor, 1922, *Snakes Phil. Ids.*: 189.

Type locality. - Deramakot, Sabah (Neotype).

Distribution in Borneo. - SABAH: Bongon (16), Bundu Tuhan (USNM), Danum Valley (FMNH), Deramakot (16), Kiau (16), Malutut River (FMNH), Marak-Parak (FMNH), Purulon River (FMNH), Ranau (16), Sandakan (16) (FMNH), Tenompok (16). SARAWAK: Mengiong River (FMNH), Sarikei (16).

***Calamaria virgulata* H. Boie**

Calamaria virgulata H. Boie In: F. Boie 1827, *Isis von Oken*, 20: 540; De Haas, 1950: 575.

Type locality. - Java.

Distribution in Borneo. - SABAH: Kenokok (16), Luidan River (16), Mesilau (FMNH), Saiap (16), Sepagaya (16) (FMNH). SARAWAK: Mt. Tibang (16). KALIMANTAN: Nunukan (16).

***Chrysopelea paradisi* Boie**

Chrysopelea paradisi H. Boie In: F. Boie 1827, *Isis von Oken*, 20: 547; De Haas, 1950: 586; Haile, 1958: 768.

Type locality. - Java.

Distribution in Borneo. - SABAH: Kota Kinabalu (SSM) (UKMS), Labuan (30), Penampang (UKMS), Gaya Island (UKMS), Quoin Hill (SSM), Sebatik Island (FMNH). SARAWAK: Baram (9), Braang (30), Ja'ong River (FMNH), Kuching (30) (FMNH), Lupar River (30), Mt. Dulit (30), Niah, Oya (30), Rejang River (30), Tubau River (FMNH).

***Chrysopelea pelias* (Linnaeus)**

Coluber pelias Linnaeus, 1758, *Syst. Nat.*, 10th ed.: 224; De Haas, 1950: 586; Haile, 1958: 768.

Type locality. - Indiis.

Distribution in Borneo. - SABAH: Poring (18), Sepagaya (FMNH). SARAWAK: Kuching (30), Mt. Gading (33), Matang (33), Nyabau (FMNH).

***Dendrelaphis caudolineatus* (Gray)**

Ahaetulla caudolineata Gray, 1834, *Ill. Indian Zool.*, 2: Pl. 81.

Ahaetulla caudolineata caudolineata De Haas, 1950: 535.

Ahaetulla caudolineata - Haile, 1958: 768.

Dendrelaphis caudolineatus - Tweedie, 1983: 64.

Type locality. - Not given in original.

Distribution in Borneo. - SABAH: Brantian River (FMNH), Danum Valley (FMNH), Kalabakan (FMNH), Dewhurst Bay (FMNH), Kota Kinabalu (32) (UKMS), Lahad Datu (FMNH), Ranau (FMNH), Sandakan (30) (FMNH), (SSM). SARAWAK: Baleh River (FMNH), Baram (8, 21, 24), Kuching (8, 21, 24), Labang River (FMNH), Lawas (FMNH), Limbang (8), Matang (30), Mt. Gading (30), Mengiong River (FMNH), Nyabau River (FMNH), Oya (30), Pesu River (FMNH), Rejang (USNM), Seran River (FMNH), Simanggang (30), Subis River (FMNH), Tibas River (FMNH). KALIMANTAN: Balikpapan (30), Buntok (30), Kapuas River (9, 30), Muara Djawa (30), Pontianak (30).

***Dendrelaphis formosus* (Boie)**

Dendrophis formosus F. Boie 1827, *Isis von Oken*, 20: 542.

Ahaetulla formosa formosa - De Haas, 1950: 535.

Ahaetulla formosa - Haile, 1958: 768.

Dendrelaphis formosus - Tweedie, 1983: 63.

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Dewhurst Bay (FMNH), Sandakan Bay (30). SARAWAK: Baram River (30), Kuching (30), Mengiong River (FMNH), Pesu River (FMNH), Seran River (FMNH), Tangap River (FMNH). KALIMANTAN: Kapus River (9, 30), Tandjong (30).

***Dendrelaphis pictus* (Gmelin)**

Coluber pictus Gmelin, 1789, *Syst. Nat.*, 13th ed., 1: 1116

Ahaetulla picta picta - De Haas, 1917: 536.

Ahaetulla ahaetulla - Haile, 1958: 768.

Dendrelaphis pictus - Tweedie, 1983: 63.

Type locality. - Java (Meise & Hennig); Borneo (Mertens).

Distribution in Borneo. - SABAH: Kota Kinabalu (FMNH) (UKMS), Labuan (USNM), Lumu-Lumu (24), Petagas (FMNH), Ranau (FMNH), Sandakan (FMNH). SARAWAK: Baram River (9, 30), Ja'ong River (FMNH), Kuching (9, 30, 33) (FMNH), Mt. Dulit (30), Mahakam (USNM), Mengiong River (FMNH), Seran River (FMNH), Subis River (FMNH), Tangap River (FMNH), Santubong (FMNH). KALIMANTAN: Balikpapan (30), Banjarmasin (30), Bulangan River (30), Kapuas River (9, 30), Kutei (30), Long Iram (USNM), Montrado (30), Singkawang (30), Sintang (30), Tandjong (30).

***Dryocalamus subannulatus* (Dumeril, Bibron & Dumeril)**

Odontomus sub-annulatus Dumeril, Bibron & Dumeril 1854, *Erpet. Gen.*, 7: 454.

Dryocalamus subannulatus - De Haas, 1950: 553; Haile, 1958: 769.

Type locality. - Padang, W. Sumatra.

Distribution in Borneo. - SABAH: Sandakan (FMNH).

***Dryocalamus tristigatus* Günther**

Dryocalamus tristigatus Günther, 1858, *Cat. Col. Snakes*: 121; De Haas, 1950: 554; Haile, 1958: 769.

Type locality. - Unknown.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Deramakot (FMNH), Labuan (30), Mendolong (FMNH), Sg. Rompon, Trus Madi (UKMS). SARAWAK: Kuching (30), Labang (FMNH), Marudi (30), Mengiong River (FMNH), Mulu (1, 30), Niah (FMNH), Nyabau River (FMNH), Penrissen Rd. (30), Segaham River (FMNH), Seran River (FMNH).

***Dryophiops rubescens* (Gray)**

Dipsas rubescens Gray, 1834, *Ill. Indian Zool.*, 2: Pl. 84, Fig. 2.

Dryophiops rubescens - De Haas, 1950: 586; Haile, 1958: 769.

Type locality. - Malaya?

Distribution in Borneo. - SABAH: Sandakan (30). SARAWAK: Mulu (1), Samarinda (30).

***Elaphe erythrurus* (Dumeril, Bibron & Dumeril)**

Plagiodon erythrurus Dumeril, Bibron & Dumeril 1854, *Erp. Gen.*, 7: 175.

Elaphe erythrura - De Haas, 1950: 547.

Elaphe erythrurus - Haile, 1958: 767.

Type locality. - Sulawesi (Celebes).

Distribution in Borneo. - SABAH: Kiulu (UKMS), Mt. Kinabalu (22, 36).

***Elaphe flavolineata* (Schlegel)**

Coluber flavolineata Schlegel, 1837, *Phys. Serp.*, 2: 141.

Elaphe flavolineata - De Haas, 1950: 548; Haile, 1958: 767.

Type locality. - Java.

Distribution in Borneo. - SABAH: Localities: Bongon (30), Bukit Padang (UKMS), Bundu Tuhan (USNM), Kalabakan (UKMS), Kasigui (FMNH), Kota Kinabalu (UKMS), Kanibongan (FMNH), Mt. Kinabalu (22), Ranau (USNM), Sandakan (FMNH), Sandakan Bay (30), Sepilok (FMNH), Tawau (FMNH). SARAWAK: Baram River (8, 21), Ja'ong River (FMNH), Kedup River (FMNH), Kelabit Plateau (FMNH), Kuching (9, 30, 33) (FMNH), Mengiong River (FMNH), Mulu (1), Niah (USNM), Nyabau River (FMNH), Pesu River (FMNH), Rejang River (30), Sarikei (FMNH), Tangap River (FMNH), Trusan River (FMNH). KALIMANTAN: Balikpapan (30), Bulangan River (30), Buntok (30), Kutei (30), Long Iram (USNM), Mahakam River (USNM), Singkawang (30), Sintang (30), Sungai Duri (30).

***Elaphe radiata* (Boie)**

Coluber radiatus F. Boie 1827, *Isis von Oken*, 20: 536.

Elaphe radiata - De Haas, 1950: 549; Haile, 1958: 767.

Type locality. - Java.

Distribution in Borneo. - KALIMANTAN: Kalimantan (22).

***Elaphe taeniura* Cope**

Elaphe taeniurus Cope, 1861, *Proc. Acad. Nat. Sci. Philad.* (1860), 12: 565.

Elaphe taeniura grabowskyi - De Haas, 1950: 550.

Elaphe taeniura - Haile, 1958: 767.

Type locality. - Siam and Ningpo.

Distribution in Borneo. - SABAH: Bundu Tuhan (USNM), Mt. Kinabalu (24). SARAWAK: Kelabit Plateau (FMNH), Mulu (1).

***Gonyophis margaritatus* (Peters)**

Gonyosoma margaritatum Peters, 1871, *Monats. Akad. Wiss. Berlin*: 578.

Gonyophis margaritatus - De Haas, 1950: 550; Haile, 1958: 768.

Type locality. - Sarawak.

Distribution in Borneo. - SABAH: Purulon River (FMNH). SARAWAK: Localities: Kuching (30), Mengiong river (FMNH), Mt. Dulit (30), Mt. Merinjak (30).

Remarks. - I have seen photographs of this species taken near Ranau, as well as near Long Pasia, in Sabah.

***Gonyosoma oxycephala* (Boie)**

Coluber oxycephalus F. Boie 1827, *Isis von Oken*, 20: 537.

Elaphe oxycephalus - De Haas, 1950: 548; Haile, 1958: 767.

Gonyosoma oxycephalum - Tweedie, 1983: 44.

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Deramakot (FMNH), Gaya

Island (UKMS), Kudat (UKMS), Labuan (30), Malutut River (FMNH), Ranau (30), Sandakan Dist. (30) (FMNH), Sepagaya (FMNH), Tamparuli (UKMS). SARAWAK: Baram (9, 30), Braang (30), Kuching (30), Labang River (FMNH), Mengiong River (FMNH), Mt. Santubong (FMNH), Niah (FMNH), Pengkalan Lubang (FMNH), Rejang River (30), Segaham River (FMNH), Seran River (FMNH), Tanjung Datu (FMNH), Trusan River (30). KALIMANTAN: Balikpapan (30), Banjarmasin (30), Kapuas River (9, 30), Kendawanga River (USNM), Pontianak (30), Samarinda (30), Singkawang (30).

***Lepturophis borneensis* Boulenger**

Lepturophis borneensis Boulenger, 1900, *Proc. Zool. Soc. London*, 1900: 183, Pl. 15; De Haas, 1950: 552; Haile, 1958: 768.

Type locality. - Kuching, Sarawak.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Marak-Parak (FMNH), Sepagaya (FMNH). SARAWAK: Kuching (9, 30), Labang River (FMNH), Mengiong River (FMNH), Pesu River (FMNH), Seran River (FMNH).

***Liopeltis baliodeirus* Boie**

Liopeltis baliodeirus F. Boie 1827, *Isis Von Oken*, 20: 539; De Haas, 1950: 559; Haile, 1958: 767.
Liopeltis baliodeira - Tweedie, 1983: 50.

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Maliau Basin (FMNH), Malutut River (FMNH), Marak-Parak (FMNH), Mendolong (FMNH), Sandakan (FMNH). SARAWAK: Baram (30), Kidi Dist. (30) Kuching (30), Kelabit Plateau (FMNH), Lundu (33), Mengiong River (FMNH), Mt. Penrissen (33), Niah (FMNH), Pesu River (FMNH), Segaham River (FMNH), Seran River (FMNH), Trusan River (FMNH). KALIMANTAN: Kutei (30).

***Liopeltis longicaudus* (Peters)**

Ablabes longicaudus - Peters, 1871, *Monats. Akad. Wiss. Berlin*: 574.
Liopeltis longicauda - De Haas, 1950: 560; Haile, 1958: 767.

Type locality. - Sarawak.

Distribution in Borneo. - SABAH: Danum Valley, (FMNH), Kalabakan (UKMS), Malutut River (FMNH), Purulon River (FMNH). SARAWAK: Bidi (30), Baram (22), Busau (30), Kidi Dist. (18), Matang (30), Mengiong River (FMNH), Mt. Batu, Song (FMNH), Tangap River (FMNH).

***Liopeltis tricolor* (Schlegel)**

Herpetodryas tricolor Schlegel, 1837, *Phys. Serp.*, 2: 187, Pl. 6, Figs. 16-18.
Liopeltis tricolor - De Haas, 1950: 560; Haile, 1958: 767.

Type locality. - Java.

Distribution in Borneo. - SARAWAK: Tangap River (FMNH).

***Pseudorabdion albonuchalis* (Günther)**

Geophis albonuchalis Günther, 1896, *Ann. Mag. Nat. Hist.*, 6(17): 229.

Agrophis albonuchalis - De Haas, 1950: 561; Haile, 1958: 767.

Pseudorabdion albonuchalis - Inger & Leviton, 1966: 312.

Type locality. - Sungei Pesu, Fourth Division, Sarawak (Neotype designation).

Distribution in Borneo. - SABAH: Marak-Parak (FMNH). SARAWAK: Baram (9, 30), Pesu River (FMNH).

***Pseudorabdion collaris* (Mocquard)**

Idiopholis collaris Mocquard, 1892, *Le Naturaliste*, 2(14): 35 and *Mem. Soc. Zool. France*, 5: 191, Pl. 7, Fig. 1; De Haas, 1950: 560; Haile, 1958: 767.

Idiopholis everetti - De Haas, 1950: 561; Haile, 1958: 767.

Pseudorabdion collaris - Inger & Leviton, 1966: 307.

Type locality. - Sebruang Valley, Kalimantan.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Penampang (UKMS), Sawa? (9, 30). SARAWAK: Mengiong River (FMNH), Niah (FMNH), Segaham River (FMNH). KALIMANTAN: Sebruang Valley (9, 30).

***Pseudorabdion longiceps* (Cantor)**

Calamaria longiceps - Cantor, 1847, *J. Asiatic Soc. Bengal*, 16: 910, Pl. 40, Fig. 1.

Pseudorhabdion longiceps - De Haas, 1950: 562; Haile, 1958: 768.

Type locality. - Penang (Great) Hill, Penang.

Distribution in Borneo. - SARAWAK: Ja'on River (FMNH), Kuching (30), Mengiong River (FMNH), Penrissen Rd. (30), Pesu River (FMNH), Seran River (30), Simanggang (30). KALIMANTAN: Pontianak (30), Sebruang Valley (30).

***Pseudorabdion saravacensis* (Shelford)**

Agrophis saravacensis Shelford, 1901, *Ann. Mag. Nat. Hist.*, 1(8): 516; De Haas, 1950: 561; Haile, 1958: 767.

Pseudorabdion saravacensis - Inger & Leviton, 1966: 311.

Type locality. - Kuching, Sarawak.

Distribution in Borneo. - SARAWAK: Mengiong River (FMNH), Niah (FMNH), Kuching (9, 30).

***Ptyas korros* (Schlegel)**

Coluber korros Schlegel, 1837, *Phys. Serp.*, 2: 139.

Ptyas korros korros - De Haas, 1950: 546.

Ptyas korros - Haile, 1958: 767.

Type locality. - Java and Sumatra.

Distribution in Borneo. - KALIMANTAN: Banjarmasin (30), Samarinda (30).

***Sibynophis melanocephalus* (Gray)**

Lycodon melanocephalus Gray, 1834, *Ill. Indian Zool.*, 2: Pl. 83, Fig. 2

Sibynophis geminatus geminatus - De Haas, 1950: 532.

Sibynophis melanocephalus - Haile, 1958: 769.

Type locality. - Singapore?

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Kiau (36), Malutut River (FMNH), Mt. Kinabalu (22, 36), Purulon River (FMNH). SARAWAK: Baram (9), Mengiong River (FMNH), Tangap River (FMNH).

***Stegonotus borneensis* Inger**

Stegonotus borneensis Inger, 1967: 82.

Type locality. - Nanga Tekalit, Sarawak.

Distribution in Borneo. - SABAH: Mt. Kinabalu (KNP). SARAWAK: Mengiong River (14) (FMNH).

***Ptyas carinatus* (Günther)**

Coryphodon carinatus (part) Günther, 1858, *Cat. Col. Snakes*: 112.

Zaocys carinatus - De Haas, 1950: 537; Haile, 1958: 767.

Type locality. - Borneo.

Distribution in Borneo. - SARAWAK: Kuching (30), Mulu (1). KALIMANTAN: Sebruang Valley (30).

***Zaocys fuscus* (Günther)**

Coryphodon fuscus Günther, 1858, *Cat. Col. Snakes*: 112.

Zaocys fuscus - De Haas, 1950: 537; Haile, 1958: 767.

Type locality. - Borneo.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Deramakot (FMNH), Mt. Kinabalu (22, 36), Purulon River (FMNH), Ranau (FMNH). SARAWAK: Kuching (22) (FMNH), Labang River (FMNH), Mengiong River (FMNH), Mulu (1, 30), Sibul (30). KALIMANTAN: Balikpapan (30), Buntok (30), Hantakan (USNM).

Subfamily Natricinae

***Amphiesma flavifrons* (Boulenger)**

Tropidonotus flavifrons Boulenger, 1887, *Ann. Mag. Nat. Hist.*, 5(20): 96.

Natrix flavifrons - De Haas, 1950: 540; Haile, 1958: 769.

Amphiesma flavifrons - Malnate, 1960: 50.

Type locality. - Mt. Kinabalu, Sabah (North Borneo).

Distribution in Borneo. - SABAH: Mendolong (UKMS), Mt. Kinabalu (30, 36), Sg.

Rompon, Trus Madi (UKMS), Purulon River (FMNH), Rangkam River (FMNH). SARAWAK: Bintulu (UKMS), Mengiong river (FMNH), Mt. Gading (33), Mt. Lund (USNM), Penrissen Hills (30), Pesu River (FMNH).

***Amphiesma frenata* (Dunn)**

Amphiesma frenata Dunn, 1923, *J. Malay. Branch Roy. Asiat. Soc.*, 1: 3

Natrix frenata - De Haas, 1950: 540; Haile, 1958: 769.

Type locality. - Mt. Murud, Sarawak.

Distribution in Borneo. - SARAWAK: Labang River (FMNH), Mt. Murud (32).

***Amphiesma petersi* (Boulenger)**

Tropidonotus maculatus Peters, 1871, (nec Edeling) *Monats. Akad. Wiss. Berlin*: 575 (preoccupied)

Tripidonotus petersi Boulenger, 1893. *Cat. Snakes Brit. Mus.*, 1: 225, Pl. 14, Fig. 1.

Natrix petersii - De Haas, 1950: 542.

Amphiesma petersi - Malnate, 1960: 50.

Type locality. - Borneo.

Distribution in Borneo. - SARAWAK: Kuching (30, 33), Mt. Gading (33), Saribas (30).

***Amphiesma sarawacensis* (Günther)**

Tropidonotus sarawacensis Günther, 1872, *Proc. Zool. Soc. London*, 1872: 596.

Natrix sarawacensis - De Haas, 1950: 543; Haile, 1958: 769.

Amphiesma sarawacensis - Malnate, 1960: 50.

Amphiesma sarawacensis - Tweedie, 1983: 94.

Type locality. - Matang, Sarawak.

Distribution in Borneo. - SABAH: Bundu Tuhan (USNM), Kenokok (FMNH), Lumu-Lumu (FMNH), Mesilau (FMNH), Penampang (UKMS), Sinsuron (FMNH). SARAWAK: Kuching (30), Labang River (FMNH), Matang (30), Mengiong River (FMNH), Mt. Dulit (30), Mt. Gading (33), Mt. Murud (33), Mt. Penrissen (33), Mt. Poi (33), Mulu (1), Penrissen Road (30), Seran River (FMNH). KALMANTAN: Balikpapan (30), Kapuas River (30), Samarinda (30), Sebruang Valley (30).

***Amphiesma stolata* (Linnaeus)**

Coluber stolatus Linnaeus, 1758, *Syst. Nat.*, 10th ed.: 219

Natrix stolatus - Haile, 1958: 50.

Type locality. - "America" (in error).

Distribution in Borneo. - SABAH: Penampang (SSM)

***Hydrablabes periops* (Günther)**

Alabes periops Günther, 1872, *Proc. Zool. Soc. London*, 595, Fig. 3.

Hydrablabes periops - De Haas, 1950: 559; Haile, 1958: 767.

Type locality. - Matang, Sarawak.

Distribution in Borneo. - SABAH: Kallang River (UKMS), Malutut River (FMNH), Purulon River (FMNH). SARAWAK: Matang (9, 30), Mengiong River (FMNH), Pesu River (FMNH). KALIMANTAN: Landak (30).

***Hydralabes praefrontalis* (Mocquard)**

Alabes periops var. *praefrontalis* Mocquard, 1890, *Le Naturaliste*, 2(12): 154 and *Nouv. Arch. Mus. Hist. Nat.*, 3(2): 137, Pl. 9, Fig. 1.

Hydralabes praefrontalis - De Haas, 1950: 559; Haile, 1958: 767.

Type locality. - Mt. Kinabalu, Sabah.

Distribution in Borneo. - SABAH: Mt. Kinabalu (9, 22, 30, 33).

***Macropisthodon flaviceps* (Dumeril, Bibron & Dumeril)**

Amphiesma flaviceps Dumeril, Bibron & Dumeril, 1854, *Erpet. Gen.*, 7: 738

Macropisthodon flaviceps - De Haas, 1950: 545; Haile, 1958: 769.

Type locality. - Borneo.

Distribution in Borneo. - SARAWAK: Kelabit Plateau (FMNH), Kuching (30). KALIMANTAN: Banjarmasin (30), Kutei (30), Pontianak Disk. (USNM), Samarinda (30) (USNM), Sebruang Valley (30).

***Macropisthodon rhodomelas* (Boie)**

Tropidonotus rhodomelas H. Boie In: F. Boie 1827, *Isis von Oken*, 20: 535.

Macropisthodon rhodomelas - De Haas, 1950: 545; Haile, 1958: 769.

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH) (UKMS), Sandakan Dist. (FMNH). SARAWAK: Baleh River (FMNH), Mengiong River (FMNH), Kuching (30), Limbang (30), Matang (30), Mt. Dulit (30), Mt. Gading (33), Pesu River (FMNH), Simbawang, Klumpeng Bay (USNM).

***Opisthotropis typicus* (Mocquard)**

Helicopsoides typica Mocquard, 1890, *Le Naturaliste*, 2(12) and *Nouv. Arch. Mus. Hist. Nat.*, 3(2): 141, Pl. 9, Fig. 3: 154; De Haas, 1950: 531; Haile, 1958: 767.

Type locality. - Mt. Kinabalu, Sabah.

Distribution in Borneo. - SABAH: Mt. Kinabalu (9, 22, 30, 36).

***Oreocalamus hanitschi* Boulenger**

Oreocalamus hanitschi Boulenger, 1899, *Ann. Mag. Nat. Hist.*, 8(4): 453.

Type locality. - Mt. Kinabalu, Sabah.

Distribution in Borneo. - SABAH: Lumu-lumu (USNM), Mesilau (FMNH), Mt. Kinabalu (9, 22, 30, 36), Mt. Lumaku, Mendolong (FMNH). SARAWAK: Kelabit Plateau (FMNH).

***Pseudoxenodon baramensis* (Smith)**

Natrix baramensis M. A. Smith, 1921, *J. Fed. Malay States Mus.*, 10: 199; De Haas, 1950: 538; Haile, 1958: 769.

Pseudoxenodon baramensis - Malnate, 1960: 1.

Type locality. - Mt. Dulit, Sarawak.

Distribution in Borneo. - SARAWAK: Kelabit Plateau (FMNH), Mengiong River (FMNH), Mt. Dulit (9), Mt. Murud (32).

***Rhabdophis chrysarga* (Schlegel)**

Tropidonotus chrysargos Schlegel, 1837, *Phys. Serp.*, 2: 312, Pl. 12, Figs. 6, 7.

Natrix chrysarga chrysarga - De Haas, 1950: 538.

Natrix chrysarga - Haile, 1958: 769. *Rhabdophis chrysarga* - Malnate, 1960: 48.

Type locality. - Java.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Mt. Kinabalu (18, 22, 30, 36) (KNP), Sandakan (30) (FMNH), Mendolong (FMNH), Purulon River (FMNH), Ranau (FMNH), Sugut River (FMNH). SARAWAK: Baram (FMNH), Bintulu (UKMS), Kuching (30), Labang River (FMNH), Lawas (FMNH), Mengiong river (FMNH), Mt. Dulit (30, 33), Mt. Gading (33), Mulu (1), Pesu River (FMNH), Rejang River (30), Seran River (FMNH). KALIMANTAN: Banjarmasin (30).

***Rhabdophis conspicillatus* (Günther)**

Tropidonotus conspicillatus Günther, 1872, *Proc. Zool. Soc. London*: 596, Fig. 4.

Natrix conspicillata - De Haas, 1950: 539; Haile, 1958: 769.

Amphiesma conspicillata - Malnate, 1960: 50.

Rhabdophis conspicillatus - Malnate & Underwood, 1988: 196.

Type locality. - Matang, Sarawak.

Distribution in Borneo. - SABAH: Mamut River (FMNH), Malutut River (FMNH), Mendolong (FMNH), Mt. Kinabalu (FMNH), Purulon River (FMNH), Sandakan Bay (30), Tempasuk River (30). SARAWAK: Baram River (9, 30), Kapit (UKMS), Kuching (30), Labang River (FMNH), Matang, (30), Mengiong River (FMNH), Metallum River (FMNH), Mt. Dulit (30), Mt. Gading (33), Niah (FMNH), Nyabau River (FMNH), Seran River (FMNH), Segaham River (FMNH), Simanggang (30). KALIMANTAN: Lihong Bahaya (30), Tadjong (30).

***Rhabdophis subminiatus* (Schlegel)**

Tropidonotus subminiatus Schlegel, 1837, *Phys. Serp.*, 2: 313.

Natrix subminiata subminiata - De Haas, 1950: 543; Haile, 1958: 769.

Rhabdophis subminata - Malnate, 1960: 48.

Type locality. - Java.

Distribution in Borneo. - KALIMANTAN: (Southeast Borneo).

***Xenochrophis maculatus* (Edeling)**

Tropidonotus maculatus Edeling, 1865, *Ned. Tijdsch. Dierkunde*, 2: 203.

Natrix maculata - De Haas, 1950: 540; Haile, 1958: 769.

Macropophis maculata - Malnate, 1960: 47.

Xenochrophis maculatus - Malnate & Underwood, 1988: 195.

Type locality. - Martapura, Banjarmasin.

Distribution in Borneo. - SABAH: Labuan (30), Mt. Kinabalu (22, 30, 32), Sipitang Dist. (30). SARAWAK: Baram (30, 33), Kuching (30) (FMNH), Labang River (FMNH), Lundu (30, 33), Mt. Dulit (30), Mulu (1, 30), Nyabau River (FMNH), Pesu River (FMNH), Seran River (FMNH), Tangap River (FMNH) (USNM), Tubau River (FMNH).

***Xenochrophis piscator* (Schneider)**

Hydrus piscator Schneider, 1799, *Hist. Amph.*, 1: 247.

Natrix piscator melanozostus - De Haas, 1950: 542.

Natrix piscator - Haile, 1958: 769.

Xenochrophis piscator - Tweedie, 1983: 89.

Type locality. - India.

Distribution in Borneo. - BORNEO.

***Xenochrophis trianguligera* (Boie)**

Tropidonotus trianguligerus - F. Boie 1827, *Isis von Oken*, 20: 535.

Natrix trianguligera - De Haas, 1950: 544; Haile, 1958: 769.

Sinonatrix trianguligera - Rossman & Eberle, 1977: 42.

Xenochrophis trianguligera - Malnate & Underwood, 1988: 195.

Type locality. - Java.

Distribution in Borneo. - SABAH: Bongon (30), Bundu Tuhan (USNM), Danum Valley (FMNH), Deramakot (FMNH), Dewhurst Bay (FMNH), Kasigui (FMNH), Malutut River (FMNH), Mendolong (FMNH), Mt. Kinabalu (22, 30, 36), Penampang (SSM), Ranau (FMNH), Sandakan (30) (FMNH), Sepagaya (FMNH), Tibas River, Kalabakan (FMNH). SARAWAK: Akah River, Long Lelang (FMNH), Baram (30), Kuching (FMNH), Nyabau River (FMNH), Pesu River (FMNH), Rejang River (30), Segaham River (FMNH), Seran River (FMNH), Subis River (FMNH), Tangap River (FMNH). KALIMANTAN: Kendawang (30), Pontianak Dist. (30) (USNM), Samarinda (30), Singkawang (30), Telang (30).

Family Elapidae

Subfamily Elapinae

***Bungarus fasciatus* (Schneider)**

Pseudoboa fasciata Schneider, 1801, *Hist. Amph.*, 2: 283.

Bungarus fasciatus fasciatus - De Haas, 1950: 597.

Bungarus fasciatus - Haile, 1958: 770.

Type locality. - Bengal, India.

Distribution in Borneo. - SABAH: Ranau (USNM). SARAWAK: Baram (9, 30), Kuching (30), Tangap River (FMNH). KALIMANTAN: Pontianak (USNM), Singkawang (30).

***Bungarus flaviceps* Reinhardt**

Bungarus flaviceps Reinhardt, 1843, *Vid. Selsk. Nat.*, 10: 267, Pl. 3, Fig. 4

Bungarus flaviceps flaviceps - De Haas, 1950: 597.

Bungarus flaviceps - Haile, 1958: 770.

Type locality. - Java.

Distribution in Borneo. - SABAH: Marak-Parak (UKMS), Mendolong (FMNH), Mt. Kinabalu (30, 36), Poring (FMNH) (KNP). SARAWAK: Baram (9) (FMNH), Bintulu (FMNH), Mengiong River (FMNH), Mulu (1), Pesu River (FMNH), Pangkalan Ampat (30), Sibu (30), Simanggang (30), Tangap River (FMNH). KALIMANTAN: Balikpapan (30), Samarinda (USNM).

***Maticora bivirgata* (Boie)**

Elaps bivirgata F. Boie, 1827, *Isis von Oken*, 20: 556.

Maticora bivirgata bivirgata - De Haas, 1950: 600.

Maticora bivirgata - Haile, 1958: 770.

Type locality. - Java.

Distribution in Borneo. - SABAH: Bogon (21), Dewhurst Bay (FMNH), Lawa Mandau, Menggatal (UKMS), Purulon River (FMNH). SARAWAK: Banting (21), Bario (FMNH), Bintulu (FMNH), Busau (21), Kuching (FMNH), Labang River (FMNH), Limbang (21), Matang (21), Mengiong River (FMNH), Niah (FMNH), Pangkalan Ampat (21), Pengkalan Lobang (FMNH), Pesu River (FMNH), Sandakan (21), Sibu (21), Tegora (21). KALIMANTAN: Balikpapan (21), Banjarmasin (21), Buntok (21), Kapuas River (USNM), Landak (15), Mahakam River (USNM), Muara Djawa (21), Muara Tebe (21), Pontianak (21), Sangkulirang (21), Sintang (8, 21).

***Maticora intestinalis* (Laurenti)**

Aspis intestinalis Laurenti, 1768, *Syn. Rept.*: 106.

Maticora intestinalis intestinalis - De Haas, 1950: 601.

Maticora intestinalis - Haile, 1958: 770.

Type locality. - "Africa" (in error).

Distribution in Borneo. - SABAH: Bundu Tuhan (USNM), Gaya Island (UKMS), Jesselton [Kota Kinabalu] (FMNH), Kiau (30, 36), Mt. Kinabalu (30), Labuan (30), Lumu-Lumu (18), Mendolong (FMNH), Purulon River (FMNH), Sandakan Bay (30). SARAWAK: Baleh River (FMNH), Baram (30), Mengiong River (FMNH), Niah (FMNH), Bintulu (FMNH), Busau (30), Kidi Dist. (30), Kuching (30) (FMNH), Labang River (FMNH), Lio Matoh (33), Marudi (9), Matang (30), Mt. Dulit (30), Mulu (1), Paku (30), Pangkalan (30), Pangkalan Ampat (30), Rejang (30), Santubong (FMNH), Simanggang (30), Tanjung Datu (FMNH), Tegora (30), Trusan (FMNH). KALIMANTAN: Landak (30), Mahakam River (FMNH), Tandjong (30).

***Naja sumatrana* Müller**

Naja tripudians var *sumatrana* Müller, 1887. *Verh. Naturf. Ges. Basel*, 8: 277.

Naja naja sumatrana - De Haas, 1950: 600.

Naja naja - Haile, 1958: 770.

Type locality. - Solok (Sumatra), Tadjong Morawa, and Java.

Distribution in Borneo. - SABAH: Bongon (30), Bundu Tuhan (USNM), Jesselton [Kota Kinabalu] (FMNH) (UKMS), Kiau (36), Malutut river (FMNH), Mt. Kinabalu (22, 30, 36), Kudat (30) (FMNH), Labuan (30), Pahlawan (9), Ranau (FMNH), Sandakan (FMNH), Tuaran (UKMS) (FMNH), Limbawan, Padas River (30). SARAWAK: Bario (FMNH), Bintulu (FMNH), Busau (30), Kuching (9, 30) (FMNH), Mengiong River (FMNH), Niah (FMNH), Oya (30), Paku (30), Pangkalan Ampat (30), Rejang River (30). KALIMANTAN: Balikpapan (30), Duri River (30), Long Iram (USNM), Montrado (30), Samarinda (30), Singkawang (30).

***Ophiophagus hannah* (Cantor)**

Hamadryas hannah Cantor, 1836, *Asiat. Res.*, 19: 87, Pls. 10-12.

Naja hannah - De Haas, 1950: 598; Haile, 1958: 770.

Ophiophagus hannah - Tweedie, 1983: 116.

Type locality. - Unknown.

Distribution in Borneo. - SABAH: Danum Valley (FMNH), Madai Caves (SSM), Sg. Rompon, Trus Madi (UKMS), Sandakan Dist. (FMNH). SARAWAK: Baram (30), Kapit (30), (FMNH), Ja'ong River (FMNH), Kuching (30) (FMNH), Labang River (FMNH), Lio Matoh (9), Mengiong River (FMNH), Nyabau River (FMNH), Paku (30), Pangkalan Ampat (30), Seran River (FMNH), Sibu (30), Subis (FMNH), Tangap River (FMNH). KALIMANTAN: Balikpapan (30), Bulangan River (30), Lundu (30), Sebulu (USNM).

Subfamily Laticaudinae

***Laticauda colubrina* (Schneider)**

Hydrus colubrinus Schneider, 1799, *Hist. Amph.*, 1: 238.

Laticauda colubrina - De Haas, 1950: 587; Haile, 1958: 770.

Type locality. - Unknown.

Distribution in Borneo. - SABAH: Kalampunian Damit Island (UKMS), Keraman Island, Labuan (FMNH) (UKMS), Layang-Layangan Island, Labuan (UKMS), Layang-Layang Island, Papar (UKMS).

Remarks. - I have also seen this species on Matunggung Island in Marudu Bay.

***Laticauda laticaudata* (Linnaeus)**

Coluber laticaudatus (part) Linnaeus, 1758, *Syst. Nat.*, 10th ed.: 222.

Laticauda laticaudata - De Haas, 1950: 587; Haile, 1958: 770.

Type locality. - "Indiis".

Distribution in Borneo. - SABAH: Si Amil Islands (34).

Subfamily Hydrophiinae

***Aipysurus eydouxii* (Gray)**

Tomogaster eydouxii Gray, 1849, *Cat. Snakes Brit. Mus.*: 59

Aepyurus eydouxii - De Haas, 1950 : 589.

Aepyurus eydouxii - Haile, 1958: 770.

Aipysurus eydouxii - Tweedie, 1983: 122.

Type locality. - Indian Ocean.

Distribution in Borneo. - SABAH: Kimanis Bay (UKMS), Kota Kinabalu (FMNH), Kuala Kinabatangan (FMNH).

***Enhydrina schistosa* (Daudin)**

Hydrophis schistosus Daudin, 1803, *Hist. Nat. Rept.*, 7: 386.

Enhydrina schistosa - De Haas, 1950: 590; Haile, 1958: 770.

Type locality. - Tranquebar, India.

Distribution in Borneo. - SABAH: Beluran, Sandakan (UKMS), Kimanis Bay (FMNH) (UKMS), Mumiang (41). SARAWAK: Baram (9, 30), Buntal (30), Kuching (30), Santubong (30, 33), Sarawak River (30), Trusan River (30).

***Hydrophis brookii* Günther**

Hydrophis brookii Günther, 1872, *Proc. Zool. Soc. London*, 1872: 597, Fig. 5; De Haas, 1950: 590.

Hydrophis brookei - Haile, 1958: 770.

Type locality. - Coast of Sarawak.

Distribution in Borneo. - SARAWAK: Santubong (34).

***Hydrophis caeruleus* (Shaw)**

Hydrus caeruleus Shaw, 1802, *Gen. Zool.*, 3: 561.

Hydrophis caeruleus - De Haas, 1950: 591; Haile, 1958: 770.

Type locality. - Indian Ocean.

Distribution in Borneo. - SABAH: Kimanis Bay (FMNH) (UKMS), Marudu Bay (41) (FMNH). SARAWAK: Santubong (34).

***Hydrophis fasciatus* (Schneider)**

Hydrus fasciatus Schneider, 1799, *Hist. Amph.*, 1: 240.

Hydrôphis fasciatus fasciatus - De Haas, 1950: 592.

Hydrophis fasciatus - Haile, 1958: 770.

Type locality. - East Indies (?) [not given].

Distribution in Borneo. - SABAH: Kimanis Bay (FMNH) (UKMS), Marudu Bay (41) (FMNH). SARAWAK: Bintulu (FMNH), South China Sea (FMNH).

***Hydrophis klossi* Boulenger**

Hydrophis klossi Boulenger, 1912, *Rept. Malay Penin.*: 190.

Type locality. - Thuala Selangor. Peninsular Malaysia [Kuala Selangor].

Distribution in Borneo. - SABAH: Marudu Bay (FMNH).

***Hydrophis melanosoma* Günther**

Hydrophis melanosoma Günther, 1864, *Rept. Brit. India*: 367, Pl. 25 Fig. E; De Haas, 1950: 593; Haile, 1958: 770.

Type locality. - Unknown.

Distribution in Borneo. - SABAH: Brunei Bay (30, 34).

***Hydrophis ornatus* (Gray)**

Aturia ornata Gray, 1842, *Zool. Misc.*: 61.

Hydrophis ornatus ornatus - De Haas, 1950: 593.

Hydrophis ornatus - Tweedie, 1983: 127.

Type locality. - Indian Ocean.

Distribution in Borneo. - SABAH: Kimanis Bay (FMNH) UKMS), Marudu Bay (FMNH).

***Hydrophis torquatus* Günther**

Hydrophis torquatus Günther, 1864: *Rept. Brit. India*, 376, Pl. 25, Fig. R.

Hydrophis torquatus aagaardi - M. A. Smith, 1920, *J.Fed. Malay States Mus.*: 10.

Hydrophis torquatus aagaardi - De Haas, 1950: 594.

Hydrophis torquatus - Haile, 1958: 770.

Type locality. - Coast of Penang, Malaya.

Distribution in Borneo. - Borneo (One specimen).

***Kerilia jerdoni* Gray**

Kerilia jerdoni Gray, 1849, *Cat. Snakes Brit. Mus.*: 57; Haile, 1958: 770.

Type locality. - Madras, India.

Distribution in Borneo. - SABAH: Marudu Bay (41).

***Lapemis curtus* Shaw**

Lapemis curtus Shaw, 1802, *Gen. Zool.*, 3: 562.

Lapemis hardwickii De Haas, 1950: 595; Haile, 1958: 770.

Lapemis curtus - Gritis & Voris, 1990: 7.

Type locality. - East Indies.

Distribution in Borneo. - SABAH: Kimanis Bay (FMNH) (UKMS), Marudu Bay (41) (FMNH), Mumiang (FMNH). SARAWAK: Santubong (30)

***Leioselasma spiralis* (Shaw)**

Hydrus spiralis Shaw, 1802, *Gen. Zool.*, 3: 564, Pl. 125.

Hydrophis spiralis - De Haas, 1950: 594; Haile, 1958: 770.

Leioselasma spiralis - Kharin, 1984: 1537.

Type locality. - Indian Ocean [not given].

Distribution in Borneo. - SABAH: Kimanis Bay (UKMS). SARAWAK: Muka (30), Santubong (34).

***Leioselasma cyanocincta* (Daudin)**

Hydrophis cyanocinctus Daudin, 1803, *Hist. Nat. Rept.*, 7: 383; De Haas, 1950: 591; Haile, 1958: 770.

Leioselasma cyanocincta - Kharin, 1984: 1541.

Type locality. - Bengale.

Distribution in Borneo. - SABAH: Kimanis Bay (FMNH) (UKMS), Marudu Bay (41) (FMNH), Mumiang (FMNH). SARAWAK: Sarawak River (34). KALIMANTAN: S.W. Borneo (34).

***Microcephalophis gracilis* (Shaw)**

Hydrus gracilis Shaw, 1802, *Gen. Zool.*, 3: 560.

Thassalophis microcephala Schmidt, 1852, *Abh. Nature. Hamburg*, 2: 78.

Microcephalophis gracilis microcephalus - De Haas, 1950: 596.

Microcephalophis gracilis - Haile, 1958: 770.

Type locality. - Not given.

Distribution in Borneo. - Borneo.

***Pelamis platurus* (Linnaeus)**

Anguis platura Linnaeus, 1766, *Syst. Nat.*, 12th ed.:391.

Pelamis platurus - De Haas, 1950: 596; Haile, 1958: 770.

Type locality. - Unknown.

Distribution in Borneo. - SABAH: [Northwest Borneo] (34). SARAWAK: Oya (30).

***Praescutata viperina* (Schmidt)**

Thassalophis viperina Schmidt, 1852, *Abh. Geb. Natur. Wiss. Hamburg*, 2: 79, Pl. 3.

Praescutata viperina - De Haas, 1950: 589; Haile, 1958: 770.

Type locality. - Java.

Distribution in Borneo. - Sarawak: Oya (30).

***Thalassophis anomalus* Schmidt**

Thalassophis anomala Schmidt, 1852, *Abh. Geb. Natur. Wiss. Hamburg*, 2: 81, Pl.4.

Thalassophis anomalus - De Haas, 1950: 595; Haile, 1958: 770.

Type locality. - Java.

Distribution in Borneo. - SABAH: [N. Borneo] (9). SARAWAK: Santubong (33)

Family Viperidae

Subfamily Crotalinae

***Ovophis chaseni* (Smith)**

Tremeresurus chaseni M. A. Smith, 1931, *Bull. Raffles Mus.*, 5: 29, Pl. 2, Fig. 1; De Haas, 1950: 609; Haile, 1958: 770.

Ovophis chaseni - Hoge & Romano-Hoge, 1981: 373.

Type locality. - Kiau, Mt. Kinabalu, Sabah.

Distribution in Borneo. - SABAH: Kiau (36), Maliau Basin (FMNH), Mt. Kinabalu (22, KNP).

***Trimeresurus popeorum* Smith**

Trimeresurus popeorum M. A. Smith, 1937, *Bombay Nat. Hist. Soc.*: 730; De Haas, 1950: 610; Haile, 1958: 770.

Type locality. - Sikkim, India.

Distribution in Borneo. - SABAH: Bundu Tuhan (USNM), Kenokok (36), Kiau (36), Mt. Lumaku, Mendolong (FMNH), Mt. Kinabalu (22), Saiap (30), Ranau (USNM). SARAWAK: Kuching (33), Mt. Dulit (18), Mt. Gading (33), Mt. Penrissen (33), Pangkalan Ampat (30).

***Trimeresurus puniceus* (Boie)**

Cophias punicea F. Boie 1827, *Isis von Oken*, 20: 561.

Trimeresurus puniceus - De Haas, 1950: 610; Haile, 1958: 770.

Type locality. - Java.

Distribution in Borneo. - SABAH: Kallang River (UKMS), Malutut River (FMNH), Mendolong (FMNH), Paitan (30), Parulon River (FMNH), Sandakan Bay (30). SARAWAK: Baram River (30), Kidi Dist. (22), Kuching (30, 33), Labang River (FMNH), Lundu (33), Matang (30), Mengiong River (FMNH), Mt. Dulit (30), Mt. Gading (33), Mulu (1), Pangkalan Ampat (30). KALIMANTAN: Samarinda (30).

***Trimeresurus sumatranus* (Raffles)**

Coluber sumatranus Raffles, 1822, *Trans. Linn. Soc. London*, 13: 334.

Trimeresurus sumatranus sumatranus - De Haas, 1950: 611; Haile, 1958: 770.

Type locality. - Sumatra.

Distribution in Borneo. - SABAH: Bundu Tuhan (9), Danum Valley (FMNH), Gaya Island (UKMS), Kamborangoh (18), Lumu-Lumu (36), Malutut River (FMNH), Marak-Parak (FMNH),

Mendolong (FMNH), Mt. Kinabalu (22), Purulon River (FMNH), Ranau (USNM). SARAWAK: Baram (9, 30), Mt. Dulit (30), Mengiong river (FMNH), Mulu (1). KALIMANTAN: Banjarmasin (30).

***Tropidolaemus wagleri* (Boie)**

Trigonocephalus Wagleri H. Boie In: F. Boie 1827. *Isis von Oken*, 20: 561.

Trimeresurus wagleri wagleri - De Haas, 1950: 611.

Trimeresurus wagleri - Haile, 1958: 770.

Tropidolaemus wagleri - Hoge & Romano-Hoge, 1981: 373.

Type locality. - Sumatra.

Distribution in Borneo. - SABAH: Kota Belud dist. (FMNH), Bukit Padang [Kota Kinabalu] (UKMS), Gaya Island (UKMS), Kota Kinabalu (USNM), Labuan (30), Penampang (UKMS), Purulon River (FMNH), Sulug Island (UKMS), Sandakan (30). SARAWAK: Baram (9, 30), Busau (30), Kuching (9, 30), Labang River (FMNH), Mt. Dulit (30), Mengiong River (FMNH), Mulu (1), Oya (30), Pangkalan Ampat (30), Pesu River (FMNH), Rejang River (30). KALIMANTAN: Kapuas River (9, 30), Landak (USNM), Muara Djawa (30), Sebruang Valley (30).

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A GAZETEER OF LOCALITIES FROM BORNEO

<i>Locality</i> (District)	Coordinates	<i>Locality</i> (District)	Coordinates
SABAH:		SABAH:	
Abai (Sandakan)	5° 42'N 118° 23'E	Marak-Parak (Kota Marudu Dist.)	6° 14'N 117° 48'E
Apin-Apin (Keningau)	5° 28'N 116° 17'E	Marudu Bay	6° 45'N 116° 55'E
Balung River (Tawau)	4° 07'N 118° 12'E	Mendolong (Sipitang Dist.)	4° 45'N 115° 40'E
Bongon River (Kudat)	6° 33'N 116° 47'E	Mesilau (Mt. Kinabalu)	5° 58'N 116° 37'E
Brunei Bay	5° 05'N 115° 18'E	Mt. Kinabalu (Ranau)	6° 05'N 116° 30'E
Bukit Garam (Kuantan)	5° 05'N 117° 30'E	Mt. Lumaku (Sipitang Dist.)	4° 52'N 115° 38'E
Bukit Padang (Kota Kinabalu)	5° 57'N 116° 03'E	Klias River	5° 18'N 115° 22'E
Bundu Tuhan (Mt. Kinabalu)	5° 58'N 116° 32'E	Kota Belud	6° 22'N 116° 25'E
Danum Valley (Lahad Datu Dist.)	5° 01'N 118° 03'E	Padas River (Beaufort)	5° 12'N 115° 33'E
Deramakot (Kinabatangan River)	5° 17'N 117° 33'E	Sg. Rompon Trus Madi	5° 31'N 116° 30'E
Dewhurst Bay (Kinabatangan River)	5° 35'N 118° 35'E	Penampang (Kota Kinabalu)	5° 55'N 116° 07'E
Gaya Island (Kota Kinabalu)	6° 01'N 116° 02'E	Poring (Mt. Kinabalu)	5° 59'N 116° 14'E
Kalabakan River (Tawau)	4° 20'N 117° 40'E	Purulon River (Tenom Dist.)	5° 14'N 115° 58'E
Kallang River (Tenom)	5° 10'N 115° 58'E	Quoin Hill (Tawau)	4° 25'N 118° 01'E
Kamborangoh (Mt. Kinabalu)	6° 02'N 116° 33'E	Ranau (near Mt. Kinabalu)	5° 57'N 116° 40'E
Kedamaian (Kota Belud)	6° 22'N 116° 26'E	Rangkam River (Tambunan Dist.)	5° 50'N 116° 25'E
Keraman Island	5° 14'N 115° 08'E	Saiap/Sayap (Mt. Kinabalu)	6° 14'N 116° 32'E
Kiansom (Kota Kinabalu)	5° 59'N 116° 12'E	Sandakan (East Coast Res.)	5° 50'N 118° 05'E
Kiau (Mt. Kinabalu)	6° 02'N 116° 31'E	[Pulau] Sebatik Island (Tawau)	4° 10'N 117° 45'E
Kimanis Bay	5° 44'N 115° 45'E	Sepagaya (Sandakan Dist.)	5° 40'N 118° 06'E
Kiulu	6° 03'N 116° 13'E	Sepilok (Sandakan Dist.)	5° 48'N 117° 36'E
Kota Kinabalu	5° 59'N 116° 04'E	Sinsuron (Crocker Range)	5° 44'N 116° 22'E
Kuala Kinabatangan (River)	5° 35'N 118° 35'E	Sipitang	5° 05'N 115° 33'E
Labuan (Brunei Bay)	5° 20'N 115° 15'E	Sugut River (Sandakan Dist.)	6° 26'N 117° 43'E
Lahad Datu (Lahad Datu)	5° 02'N 115° 20'E	Sulug Island (Kota Kinabalu)	5° 57'N 115° 59'E
Lamag (Kinabatangan River)	5° 30'N 117° 50'E	Tambunan (West Coast Residency)	5° 40'N 116° 21'E
Lawa Mandau	6° 04'N 116° 09'E	Tamparuli (Tuaran Dist.)	6° 08'N 116° 16'E
Layang-Layang Island	5° 46'N 115° 53'E	Tuaran River (Kota Kinabalu Dist.)	6° 11'N 116° 10'E
Layang-Layangan Island	5° 21'N 115° 11'E	Tawau River (East Coast Residency)	4° 15'N 117° 54'E
Limbawan (Padas River)	5° 19'N 116° 08'E	Tawau Hills Park	4° 20'N 117° 56'E
Lumu-Lumu (Mt. Kinabalu)	6° 00'N 116° 25'E	Telupid (Ranau Dist.)	5° 41'N 117° 05'E
Madai Caves	4° 43'N 118° 08'E	Tempasuk River (Kota Belud Dist.)	6° 25'N 116° 22'E
Maliau Basin	5° 18'N 116° 55'E	Tenompok (Mt. Kinabalu)	5° 52'N 116° 31'E
Malutut River (Tenom Dist.)	5° 15'N 115° 58'E	Tiga Island (Beaufort Dist.)	5° 43'N 115° 39'E
Mamut River (Mt. Kinabalu)	6° 03'N 116° 42'E	Tuaran	6° 11'N 116° 14'E

Stuebing : Snakes of Borneo

<i>Locality</i> (District)	Coordinates	<i>Locality</i> (District)	Coordinates
SARAWAK:		SARAWAK:	
Baleh River (3rd Div.)	2°01'N 113°01'E	Subis (4th Div.)	3°48'N 113°47'E
Balui River (3rd. Div.)	1°17'N 111°37'E	Saribas River (2nd Div.)	1°40'N 111°05'E
Baram River (4th. Div.)	4°40'N 114°00'E	Tanggap River (4th Div., Niah)	3°52'N 113°46'E
Bario (Kelabit Plateau, 4th Div.)	3°45'N 115°25'E	Tanjung Datu (1st Div.)	2°05'N 109°40'E
Batu Lintang (1st Div.)	1°01'N 111°33'E	Tapuk [Tapuh] River (1st Div.)	1°30'N 110°26'E
Batu Niah (4th Div.)	3°48'N 113°45'E	Tegora (Hill, 1st Div.)	1°17'N 110°12'E
Batu Song (4th Div.)	3°48'N 114°44'E	Telang River (4th Div.)	3°47'N 113°26'E
Bau River [Muarapau?] (1st Div.)	1°25'N 110°09'E	Temiang (Hill, 1st Div., Simunjam)	1°00'N 111°34'E
Belaga (7th Div.)	2°42'N 113°47'E	Trusan (5th Div.)	4°47'N 115°15'E
Bidi (1st Div.)	1°23'N 110°08'E	Trusan River (5th Div., Lawas)	4°55'N 115°10'E
Bintulu (2nd Div.)	3°10'N 113°02'E	Tuang River (1st Div.)	1°27'N 110°29'E
Busau (1st Div.)	1°27'N 110°11'E	Tubau River (2nd Div.)	2°53'N 114°55'E
Bukit Brayong [Prayong] (5th Div.)	4°48'N 115°22'E		
Entuat [Entoyut] River (6th Div.)	1°52'N 112°36'E	KALIMANTAN:	
Jaong River (1st Div.)	1°04'N 111°24'E	Balikpapan	1°55'N 116°30'E
Kapit (Rejang River, 3rd. Div.)	2°01'N 112°56'E	Banjarmasin	3°25'S 114°30'E
Kedup River (1st. Div.)	1°07'N 110°31'E	Barito River	3°35'S 114°25'E
Kuching (1st Div.)	1°35'N 110°20'E	Batu Lepo River (Sangkuliang)	0°58'N 117°58'E
Labang River (3rd Div.)	3°15'N 113°29'E	Batu Pengal	0°30'S 117°15'E
Lawas (5th Div.)	4°52'N 115°25'E	Bongan	0°58'N 113°40'E
Limbang River (5th Div.)	4°50'N 115°00'E	Bulangan (River)	2°23'N 125°26'E
Linei [Linoi] River (4th Div.)	4°02'N 114°27'E	Bunju Island	3°30'N 117°50'E
Lio Matoh (4th Div.)	3°10'N 115°14'E	Buntok	1°42'S 114°48'E
Long Mujan (4th Div., Baram)	3°03'N 114°50'E	(Kota) Bongon	0°15'S 116°35'E
Lundu (1st Div.)	1°40'N 109°50'E	Duri River (Pontianak Dist.)	0°35'N 109°00'E
Lupar River (2nd Div.)	1°30'N 111°00'E	Kapuas River	0°25'S 109°40'E
Matang (1st Div., W. of Kuching)	1°33'N 110°12'E	Kendawangan	2°32'S 110°12'E
Mengiong River (7th Div.)	1°39'N 113°38'E	Kutei	0°35'S 117°17'E
Metalum River (4th Div.)	3°07'N 113°49'E	Landak (River, Pontianak)	0°01'S 109°21'E
Mt. Dulit (3rd Div.)	3°25'N 114°00'E	Liang Buaya [Lihong Bahaya?]	0°10'N 116°10'E
Mt. Gadin(g) (1st Div.)	1°43'N 109°48'E	Long Iram	0°02'S 115°38'E
Mt. Meranja Kechil [Merinjak] (1st Div.)	1°03'N 110°16'E	Kong Petak [Long Petah?]	1°45'N 116°08'E
Mt. Mulu (4th Div.)	4°01'N 114°52'E	Mahakam River	0°30'S 117°15'E
Mt. Murud (5th Div.)	3°55'N 115°32'E	Martapura	3°25'N 114°51'E
Mt. Penrissen (1st Div.)	1°08'N 110°13'E	Merah River	0°50'S 115°22'E
Niah (4th Div.)	3°53'N 113°43'E	Miang Besar Island	0°43'N 118°00'E
Nyabau River (4th Div.)	3°13'N 113°03'E	Montrado	0°45'N 109°10'E
Oya (2nd Div.)	2°52'N 111°53'E	Muara Jawa [Moeara Djawa]	0°38'S 117°18'E
Paku (1st Div.)	1°25'N 110°11'E	Nunukan Island	2°08'N 118°44'E
Pelagus River (7th Div.)	2°10'N 113°03'E	Padang River	2°35'S 107°54'E
Pangkalan Empat (1st Div.)	1°11'N 110°15'E	Pontianak	0°00'N 109°20'E
Pangkalan Lubang (1st Div.)	1°35'N 110°27'E	Samarinda	0°30'S 117°15'E
Pesu River (4th Div.)	3°07'N 113°42'E	Sangkuliang	0°59'N 117°58'E
Rejang [Rajang] River (2nd Div.)	2°10'N 111°15'E	Sebruang	0°25'N 111°50'E
Sadong River (1st Div.)	1°30'N 110°40'E	Sebulu River	0°16'S 117°00'E
Sama River (2nd Div.)	2°47'N 113°51'E	Sembakung	3°49'N 117°15'E
Santubong (Hill, 1st Div.)	1°45'N 110°20'E	Singkawang	0°55'N 109°00'E
Sarikei (2nd Div., Sibul Dist.)	2°20'N 111°30'E	Sintang	0°05'N 111°15'E
Saratok (2nd Dis.)	1°44'N 111°20'E	Tayan	0°02'S 110°07'E
Sarawak River	1°38'N 110°27'E	Tanjung	2°11'S 116°08'E
Segaham River (7th Div.)	2°44'N 113°53'E	Telang	2°07'S 115°00'E
Senah River (1st Div.)	1°15'N 110°15'E	Tenggarong	0°24'S 116°58'E
Seran River (4th Div.)	3°20'N 113°29'E	(Muara) Teweh River	1°00'S 114°50'E
Sibu (3rd Div.)	2°20'N 111°40'E	Tumbang Maruwei [Tumbang Marui]	0°23'S 114°41'E
Sri Aman [Simanggang] (2nd Div.)	1°15'N 111°26'E		