

Life from Headwaters to the Coast

GUNUNG PENRISSEN

The Roof of Western Borneo

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Reptiles

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A total of 86 species of reptiles are now known from Gunung Penrissen. The earliest account in 1900 (based on his collections in 1899) by William Shelford included 24 species. As with the amphibian fauna, faunal turnover with elevation is distinct, with the lowlands inhabited by generalised Bornean lowland reptiles, the upper (> 1,200 m above sea level) elevations showing several Bornean endemics, including a few only otherwise known from Gunung Kinabalu, in northern Borneo.

Reptiles were recorded during transect walks across several vegetation types, as well as road-cruising. No crocodylians have been reported in the region, and a single turtle, the Malayan Softshelled Turtle, has been recorded from the rocky streams at the foothills. Additional species of hardshelled turtles may, however, be expected, when the lowland forests and streams are



Fig. 1. *Ahaetulla prasina*.

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sampled further. The reptile fauna of Penrissen, thus comprises almost entirely of squamates, snakes (50 species) and lizards (33 species), with a single turtle species, as enumerated below.

Species shared with Gunung Kinabalu and apparently absent in the intervening lowland regions include the Kinabalu Flying Gecko and the Stoliczka's Stream Snake. For a few species, the Penrissen record extends their respective known ranges, either longitudinally- the Bornean Black Snake, whose nearest record is in central Sarawak, a distance over 300 km to the north-east, or elevationally- the Sunbeam snake, reportedly a lowlands species, recovered in Penrissen at an elevation of over 850 m above sea level. Additionally, a taxonomically cryptic Coral Snake was found, whose closest relative has been collected in similar montane habitats in Sumatra. Discoveries amongst the lizard fauna in the past two years include two new species of Litter Skinks of the same genus which, surprisingly, are not related to each other.

Reptiles collected from Penrissen thus will remain absorbing material for future research on ecology, taxonomy, phylogeny and biogeography, and we hope such information will be valuable inputs into conservation and management.



Fig. 2. *Dryocalamus subannulatus*.



Fig. 3. *Dendrelaphis kopsteini*.



Fig. 4. *Stegonotus borneensis*.



Fig. 5. *Cyllindrophis lineatus*.



Fig. 6. *Enhydrius enhydrius*.



Fig. 7. *Pareas nuchalis*.



Fig. 8. *Parias sumatranus*.



Fig. 9. *Xenopeltis unicolor*.

Fig. 10. *Gonocephalus grandis*.



Fig. 11. *Ptychozoon horsfieldii*.



Fig. 12. *Phoxophrys* cf. *nigrilabris*.



Fig. 13. *Aeluroscalabotes felinus*.



Fig. 14. *Aeluroscalabotes felinus*.



Fig. 15. *Takydromus sexlineatus*.



Fig. 16. *Eutropis rudis*.



Fig. 17. *Sphenomorphus* sp.



Fig. 18. *Tytthoscincus batupangah*.

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A Checklist of Reptiles

Family	Scientific Name	Common Name
Trionychidae	<i>Dogania subplana</i> (Geoffroy Saint-Hilaire, 1809)	Malayan Softshell Turtle
Colubridae	<i>Ahaetulla prasina</i> (Boie, 1827)	Oriental Vine Snake
	<i>Boiga cynodon</i> (Boie, 1827)	Dog-toothed Cat Snake
	<i>Boiga dendrophila</i> (Boie, 1827)	Mangrove Cat Snake
	<i>Boiga drapiezii</i> (Boie, 1827)	White-spotted Cat Snake
	<i>Boiga jaspidea</i> (Duméril, Bibron & Duméril, 1854)	Jasper Cat Snake
	<i>Boiga nigriceps</i> (Günther, 1863)	Black-headed Cat Snake
	<i>Calamaria bicolor</i> Duméril, Bibron & Duméril, 1854	Bicoloured Reed Snake
	<i>Calamaria everetti</i> Boulenger, 1893	Everett's Reed Snake
	<i>Calamaria schlegelii</i> (Duméril, Bibron & Duméril, 1854)	Red-headed Reed Snake
	<i>Coelognathus flavolineatus</i> (Schlegel, 1837)	Yellow-striped Trinket Snake
	<i>Dendrelaphis caudolineatus</i> (Gray, 1834)	Stripe-tailed Bronzeback Tree Snake
	<i>Dendrelaphis kopsteini</i> Vogel & van Rooijen, 2007	Kopstein's Bronzeback Tree Snake
	<i>Dryocalamus subannulatus</i> (Duméril, Bibron & Duméril, 1854)	Half-banded Bridled Snake
	<i>Dryocalamus tristrigatus</i> Günther, 1858	Three-banded Bridled Snake
	<i>Gongylosoma balodeirum</i> (Boie, 1827)	Orange-bellied Snake
	<i>Gonyosoma margaritatum</i> Peters, 1871	Royal Tree Snake
	<i>Gonyosoma oxycephalum</i> (Boie, 1827)	Red-tailed Racer
	<i>Lycodon borneensis</i> (Boulenger, 1900)	Dusky Wolf Snake
	<i>Lycodon effraenis</i> Cantor, 1847	Brown Wolf Snake
	<i>Lycodon subcinctus</i> Boie, 1827	White-banded Wolf Snake
	<i>Oligodon purpurascens</i> (Schlegel, 1837)	Purple Kukri Snake
	<i>Pseudorabdion longiceps</i> (Cantor, 1847)	Dwarf Reed Snake
	<i>Ptyas carinata</i> (Günther, 1858)	Malayan Keeled Rat Snake

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Family	Scientific Name	Common Name
	<i>Stegonotus borneensis</i> (Schlegel, 1837)	Bornean Black Snake
	<i>Xenelaphis ellipsifer</i> Boulenger, 1900	Ornate Brown Snake
Cylindrophiiidae	<i>Cylindrophis lineatus</i> Blanford, 1881	Lined Pipe Snake
Elapidae	<i>Bungarus flaviceps</i> Reinhardt, 1843	Red-headed Krait
	<i>Calliophis bivirgatus</i> (Boie, 1827)	Blue Coral Snake
	<i>Calliophis intestinalis</i> (Laurenti, 1768)	Malayan Striped Coral Snake
	<i>Calliophis</i> sp.	Montane Coral Snake
	<i>Naja sumatrana</i> Müller, 1887	Sumatran Cobra
	<i>Ophiophagus hannah</i> (Cantor, 1836)	King Cobra
Homalopsidae	<i>Enhydris enhydris</i> (Schneider, 1799)	Rainbow Water Snake
Natricidae	<i>Hebius flavifrons</i> (Boulenger, 1887)	White-fronted Keelback
	<i>Hebius saravacense</i> (Günther, 1872)	Sarawak Keelback
	<i>Psammodynastes pulverulentus</i> (Boie, 1827)	Mock Viper
	<i>Rhabdophis conspicillatus</i> (Günther, 1872)	Red-bellied Keelback
	<i>Xenochrophis maculatus</i> (Edeling, 1864)	Malayan Spotted Keelback Water Snake
	<i>Xenochrophis tringuligerus</i> (Boie, 1827)	Red-sided Keelback Water Snake
Pareidae	<i>Aplopeltura boa</i> (Boie, 1828)	Blunt-headed Slug-eating Snake
	<i>Asthenodipsas laevis</i> (Boie, 1827)	Smooth Slug-eating Snake
	<i>Pareas nuchalis</i> (Boulenger, 1900)	Collared Slug-eating Snake
Pythonidae	<i>Malayopython reticulatus</i> (Schneider, 1801)	Reticulated Python
	<i>Python breitensteini</i> Steindachner, 1881	Bornean Short Python
Typhlopidae	<i>Ramphotyphlops lineatus</i> (Schlegel, 1839)	Lined Blind Snake
Viperidae	<i>Parias sumatranus</i> (Raffles, 1822)	Sumatran Pit Viper
	<i>Popeia sabahi</i> (Regenass & Kramer, 1981)	Sabah Green Pit Viper
	<i>Trimeresurus borneensis</i> (Peters, 1871)	Bornean Palm Pit Viper

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Family	Scientific Name	Common Name
	<i>Tropidolaemus subannulatus</i> (Gray, 1842)	Bornean Keeled Green Pit Viper
Xenodermatidae	<i>Stoliczka borneensis</i> Boulenger, 1899	Stoliczka's Stream Snake
Xenopeltidae	<i>Xenopeltis unicolor</i> Reinwardt, 1827	Sunbeam Snake
Agamidae	<i>Bronchocela cristatella</i> (Kuhl, 1820)	Crested Green Lizard
	<i>Draco haematopogon</i> Boie in: Gray, 1831	Red-bearded Flying Lizard
	<i>Draco maximus</i> Boulenger, 1893	Large Flying Lizard
	<i>Draco sumatranus</i> Schlegel, 1844	Common Flying Lizard
	<i>Gonocephalus bornensis</i> (Schlegel, 1848)	Bornean Angle-headed Lizard
	<i>Gonocephalus grandis</i> (Gray, 1845)	Giant Angle-headed Lizard
	<i>Phoxophrys</i> cf. <i>nigrilabris</i> (Peters, 1864)	Black-lipped Shrub Lizard
	<i>Pseudocalotes sarawacensis</i> Inger & Stuebing, 1994	Bornean Long-headed Lizard
Eublepharidae	<i>Aeluroscalabotes felinus</i> (Günther, 1864)	Bornean Cat Gecko
	<i>Aeluroscalabotes</i> sp.	Montane Cat Gecko
Gekkonidae	<i>Cnemaspis kendallii</i> (Gray, 1845)	Kendall's Day Gecko
	<i>Cnemaspis</i> sp.	Penrissen Day Gecko
	<i>Cyrtodactylus consobrinus</i> (Peters, 1871)	Peters' Bent-toed Gecko
	<i>Cyrtodactylus pubisulcus</i> Inger, 1957	Grooved Bent-toed Gecko
	<i>Cyrtodactylus quadrivirgatus</i> Taylor, 1962	Four-striped Bent-toed Gecko
	<i>Cyrtodactylus</i> sp.	Penrissen Bent-toed Gecko
	<i>Gekko monarchus</i> (Duméril & Bibron, 1836)	Warty House Gecko
	<i>Gekko smithii</i> (Gray, 1842)	Smith's Giant Gecko
	<i>Hemidactylus frenatus</i> Duméril & Bibron, 1836	Asian House Gecko
	<i>Ptychozoon horsfieldii</i> (Gray, 1827)	Horsfield's Parachute Gecko

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Family	Scientific Name	Common Name
	<i>Ptychozoon kuhli</i> Stejneger, 1902	Kuhl's Parachute Gecko
	<i>Ptychozoon rhacophorus</i> (Boulenger, 1899)	Kinabalu Parachute Gecko
Lacertidae	<i>Takydromus sexlineatus</i> Daudin, 1802	Long-tailed Grass Lizard
Scincidae	<i>Apterygodon vittatum</i> Edeling, 1864	Bornean Striped Tree Skink
	<i>Eutropis multifasciata</i> (Kuhl, 1820)	Common Sun Skink
	<i>Eutropis rudis</i> (Boulenger, 1887)	Black-banded Ground Skink
	<i>Sphenomorphus shelfordi</i> (Boulenger, 1900)	Shelford's Forest Skink
	<i>Sphenomorphus</i> sp.	Penrissen Forest Skink
	<i>Tropidophorus beccarii</i> Peters, 1871	Beccari's Water Skink
	<i>Tropidophorus brookei</i> (Gray, 1845)	Brooke's Water Skink
	<i>Tytthoscincus batupanggih</i> Karin, Das & Bauer, 2016	Batu Panggah Litter Skink
	<i>Tytthoscincus leproauricularis</i> Karin, Das & Bauer, 2016	Penrissen Litter Skink
Varanidae	<i>Varanus dumerilii</i> (Schlegel, 1839)	Duméril's Monitor Lizard
	<i>Varanus rudicollis</i> Gray, 1845	Rough-necked Monitor Lizard