THE REPTILES

OF THE

INDO-AUSTRALIAN ARCHIPELAGO.
THE REPTILES

OF THE

INDO-AUSTRALIAN ARCHIPELAGO

II

OPHIDIA

with 117 illustrations

BY

Dr. NELLY DE ROOIJ
Curator of the Zoological Museum, Amsterdam.

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E. J. BRILL Ltd.
PREFACE.

In bringing this second volume of the indo-australian Reptiles before the public, I may be allowed gratefully to acknowledge the industry and constant application of Miss DE ROOIJ, which were necessary to complete in so short a space of time the first comprehensive work about the Reptiles, living in the indo-australian region.

In the present volume 84 genera and 318 species of snakes are described. Only very few of them have not yet been found in the Archipelago. They are none the less included because Miss DE ROOIJ rightly supposes that they will be discovered in future also in this part of the world.

With the present volume the work about the indo-australian Reptiles is completed.

It will certainly be of great help to students of this group of animals. Besides, I hope not to be wrong in supposing that it will also be of interest to residents in the Archipelago, many of whom are attracted by the animals living around them, but who lack works to guide them. Such a guide they will find in the work of Miss DE ROOIJ. The numerous figures, so ably and accurately drawn by Mr. J. F. OBBES will greatly facilitate the use of the descriptions.

To promote the study of animals in the Archipelago in both directions, was the aim, when the publication of a series of volumes describing the Vertebrates of the indo-australian Archipelago, was planned. In a previous volume we have explained how their appearance was realised by the interest and help of the late Prof. M. TREUB and by his successor Dr. KONINGSBERGER.

Miss DE ROOIJ has already gratefully acknowledged the assistance she had received from many institutions and indi-
viduals, while being engaged in working out the Reptiles of the indo-australian region.

In conclusion I have the pleasure to offer my thanks to the publishing firm late E. J. BRILL. In bringing out this volume the publisher had to overcome many and various difficulties, caused by the present sad conditions of life.

Prof. Max Weber
Director of the Zoological Museum of the University of Amsterdam.
INTRODUCTION.

The second volume of the Indo-Australian Reptiles contains descriptions of all the species of snakes living in the Indo-Australian Archipelago. The material has been treated in the same way as in the first volume, dealing with the Lacertilia, Chelonia and Emydosauria, and I have been able to use the same large collections mentioned in that volume, sent from the western part of the Archipelago: Sumatra and its neighbouring islands, as well as from New Guinea in the east. Moreover, some species have been mentioned living nearest to this region, which may be found there also though they have not yet been discovered.

The specimens I could examine myself have a! behind the name of the place where they were collected. Length of head and body means the distance between the tip of the snout and the vent.

Among the localities is enumerated: Pulu Babi. This is one of the three small islands near Simalur bearing the same name; of these three is meant the one lying southwards of Simalur; on 2° 7' N. and 96° 40' E. The same small island is mentioned in the first volume.

For the Snakes too exist excellent lists of synonyms composed by G. A. BOULENGER in the Catalogues of the British Museum; therefore I followed this work for the names, except where some doubt arose or when I was of another opinion.

The extraordinary circumstances by which nearly the whole world is oppressed, made it difficult for me to finish my task; objections were made to send out rare species for examination, letters did not reach their destination and last but not least the paper question was an urgent one. Still I beg to return my sincere thanks to all who have rendered me their help in different ways. Dr. VAN LIDTH DE JEUGE placed the collection of the Leiden Museum at my disposal, which contains
so many valuable objects; not only that Dr. BOULENGER was so kind as to allow me to examine each snake in the British Museum I wanted to see, but he also gave me his advice on different matters. Specimens for examination were obtained from Prof. WIREN in Upsala, Dr. ANNANDALE in Calcutta and Dr. ROUX at Basle, so that descriptions and figures could more easily be made.

Prof. TORNIER of the Berlin Museum and Prof. LOHMAN in Hamburg did not think it safe to send specimens but gave information of the doubtful points; the latter sent a figure made by Dr. DUNCKER to clear up my question, for which I am very grateful. Professor JACOBI of the Dresden Museum informed me about a specimen of Python belonging to that Museum.

For this volume too Mr. OBBES was willing to draw all the figures, in which he succeeded admirably. To the end Prof. MAX WEBER showed his interest in the work by suggesting emendations, which I thankfully applied.

Amsterdam, November 1917.

NELLY DE ROOIJ.
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IV. Order OPHIDIA.

Quadrate bone distally free; temporal region with one temporal arch; the two parts of the mandible connected by ligament; teeth not in alveoli. Anal opening transverse; copulatory organ present, paired.

Snakes have no movable eyelids, the lid forms a transparent disk over the eye; the ear-opening is absent; the tongue is long and slender, forked, and retractile into a basal sheath. Limbs are absent.

They may be divided into nine families, seven of which are represented in the Indo-Australian fauna. Poisonous snakes only belong to two of these, Colubridae and Viperidae.

Synopsis of families.

A. Eyes under the shields; body covered with uniform scales; mandible toothless .................................. Typhlopidae p. 2.

B. Eyes exposed; median ventral scales usually enlarged; jaws toothed.

I. Maxillary horizontal.

a. Traces of hind limbs, ending in a claw, often visible on each side of the anal opening.


2. Tail not prehensile, very short .................. Ilysiidae p. 34.

b. No traces of hind limbs.

1. Mental groove present.

† A large azygous occipital present; praemaxillary toothed ............ Xenopeltidae p. 39.

†† No azygous occipital; praemaxillary toothless ..................... Colubridae p. 41.


II. Maxillary short, vertically erectile ..................... Viperidae p. 279.
I. Fam. **Typhlopidae.**

Body small, worm-like, covered with uniform, cycloid scales; eyes covered by shields. Head-bones solidly united; no ektopterygoid; pterygoids short, not reaching the mandible; no supratemporal; maxillary small, vertical, loosely fixed and bearing a few teeth; mandible toothless; coronoid present. Pelvis reduced to a single bone.

They lead a subterranean life, usually feeding on worms, and may be found in rotten trees. Oviparous, the few eggs large and long. A single genus.

1. **Typhlops** Schneider.


Head covered with large shields; nasal single or divided. Tail very short.

Distribution. Borders of the Mediterranean; Africa; S. Asia; Australia; C. and S. America; West Indies.

**Key to the Indo-Australian species.**

_A_. No praeocular; no subocular; ocular in contact
with the second and third labials . . . . . 1. *T. lineatus* p. 4.

_B_. Praeocular present, in contact with the third, or second and third labials; no subocular; ocular in contact with the labials.

_I_. Praeocular in contact with the third labial only

_II_. Praeocular in contact with the second and third labials (fig. 1).


b. Nasal cleft proceeding from the first labial.

1. Snout rounded.

† Nostril inferior.

_aa_. Rostral about \(\frac{1}{3}\) the width of the head, not extending to the level of the eyes; nasal completely divided; 20 scales round the body.


_bb_. Rostral about \(\frac{1}{2}\) the width of the head, extending to the level of the eyes; nasal incompletely divided; 22 scales round the body.

+++ Nostril lateral; 22 scales round the body. 6. T. elberti p. 7.

2. Snout with sharp edge.
† Rostral extending to between the eyes. 7. T. multilinicus p. 7.
‡‡ Rostral not extending to between the eyes.
  1. Rostral three fifths the width of the head. 8. T. olivaceus p. 8.
  2. Rostral not quite half the width of the head. 9. T. lorenzi p. 8.

c. Nasal cleft proceeding from the second labial.
  1. Nasal completely divided.
  aa. Snout rounded; nostril lateral; scales in 26 rows. 10. T. kapaladna p. 9.
  bb. Snout with a sharp edge; nostril inferior; scales in 24 rows. 11. T. depressiceps p. 9.

2. Nasal incompletely divided.
× Nostril inferior.
  a. Rostral $\frac{2}{5}$ the width of the head, extending nearly to the level of the eyes; 18 scales round the body. 12. T. conradi p. 10.
  b. Rostral large; 22 scales round the body. 13. T. bipartitus p. 10.
  c. Rostral $\frac{1}{4}$ the width of the head, not extending to the level of the eyes; 22 scales round the body. 14. T. florensis p. 10.

×× Nostril lateral.
  1. 20 scales round the body; rostral $\frac{1}{3}$ the width of the head, extending to the level of the eyes. 15. T. leucoproctus p. 11.
  2. 22 scales round the body; rostral narrow, the upper portion $\frac{1}{3}$ the width of the head, extending nearly to the level of the eyes. 16. T. flaviventer p. 11.
  3. 26 scales round the body; rostral narrow, the upper portion $\frac{1}{3}$ the width of the head, extending to between the eyes or nearly so. 17. T. nigroalbus p. 12.
  4. 26 or 28 scales round the body; rostral $\frac{1}{4}$ the width of the head, not extending to the level of the eyes. 18. T. müller i p. 12.
C. Praeocular present; one or two suboculars.

I. Praeocular not in contact with the labials;
   18 scales round the body.
   b. Two suboculars. . . . . . . . . . . . . . . . . . . 20. *T. bisubocularis* p. 13.

II. Praeocular in contact with the second, third and fourth labials; a single subocular: 20 scales round the body. . . . . . . . . 21. *T. inornatus* p. 14.

1. *Typhlops lineatus* Boie.

*Typhlops lineatus*, Boie, Isis 1827, p. 563.
*Typhlops lineatus*, Boulenger, Cat. Snakes I 1893, p. 15.

Snout rounded, strongly projecting; nostrils inferior. Rostral very large; nasal incompletely divided, the cleft proceeding from the first labial; a single large ocular on each side behind the nasal; eyes not distinct; prefrontal, supraoculars and parietals enlarged, transverse; four upper labials. Body with 22 scales round the middle; its diameter 40 to 60 times in the total length; tail about as long as broad, ending in a spine.

Blackish above, each scale spotted with yellow, or yellow or pale brown with dark brown longitudinal lines between the series of scales; head and lower surface yellowish. Total length 485 mm.

Habitat: Nias!; Sumatra (Atjeh, Labuan, Tandjong, Langkat, Deli!, Battak Highlands 800—1000 M., Indragiri); Borneo (Singkawang, Kuching); Java (Gadok, Buitenzorg!, Salak, Preanger, Sinagar!, Tjibodas 1425 M., Wonosobo, Ambarawa, Salatiga!). — Malay Peninsula; Singapore; Penang; Siam.

var. *sumatrana* Werner.


Mouth-opening U-shaped, with parallel borders; 24 scales round the body. Pale yellowish with indistinct longitudinal lines. Total length 320 mm.; tail 7 mm. (After Werner; not seen by me).

Habitat: Sumatra; Java (Buitenzorg).


Snout rounded, projecting; nostrils lateral. Rostral about one third the width of the head, not extending to the level of the eyes; nostril between two nasals, the anterior in contact with the first and second labials; praeocular present, as broad as the ocular, in contact with the third labial only; eyes distinct; head-scales feebly enlarged; four upper labials. Body with 24—26 scales round the middle; its diameter 40 to 42 times in the total length; tail as long as broad, ending in a spine.

Blackish-brown; lower surface of head and middle of belly yellowish. Total length 265 mm.

Habitat: Kei Islands!

3. Typhlops braminus (Daud.).


*Typhlops braminus*, Boulenger, Cat. Sn. I 1893, p. 16 (s. syn.).

Snout rounded, projecting; nostrils lateral. Rostral narrow, its upper portion about one third the width of the head, not extending to the level of the eyes; nostril between two nasals, the anterior in contact inferiorly with the praeocular and extending to the upper surface of the head; praeocular present, nearly as large as the ocular, in contact with the second and third labials; eyes distinct; head-scales a little larger than the scales of the body; four upper labials. Body with 20 scales round the middle; its diameter 35 to 55 times in the total length; tail as long as broad or a little more long than broad, ending in a spine.

Brown, grey or black above; snout, anal region and end of tail whitish. Lower surface light. Total length 175 mm.

Nom. indig. Ular hitam (Borneo); duwa or ular duwel (mal.).

Habitat: Nias!; Sumatra (Atjeh, Medan!); Riou; Banka; Java (Gadok, Weltevreden!, Buitenzorg!, Pekalongan!, Kediri!); Madura; Borneo! (Labuan, Kuching, Buntok); Flores!; Lombok!; Sumba; Timor; Celebes (Manado, Kema, Macassar!, Tamangura); Saleyer!; Buton; Ambon!; Ceram; Ternate; Halmahera; Kei Islands; Aru Islands. — Malay Peninsula; Christmas Island; Andamans; Ceylon; India; Siam; Burma; Formosa; Hongkong; Philippines; Islands of the Indian Ocean; Arabia; S. Africa; Madagascar; Mexico.

A very common form throughout the Archipelago.
4. Typhlops erycinus Werner.


Snout rounded, strongly projecting; nostrils inferior. Rostral hardly one third the width of the head, not extending to the level of the eyes; nasal completely divided, nasal cleft proceeding from the first upper labial and extending on the upper surface of the head; praecocular present, a little larger than the ocular, in contact with the second and third labials; eyes distinct; praefrontal, supraoculares and parietals enlarged, latter shields separated in the middle by a scale; four upper labials, increasing in size posteriorly. Body with 20 scales round the middle; its diameter 44 times in the total length; tail a little more long than broad, ending in a spine.

Greyish-brown above, base of scales dark brown; snout yellow. Lower surface yellow. Total length 350 mm.; tail 10 mm. (After WERNER; not seen by me).

Habitat: German New Guinea.

5. Typhlops polygrammicus Schlegel.

*Typhlops polygrammicus*, Schlegel, Abbild. 1844, p. 40, pl. XXXII, fig. 35—38. *Typhlops polygrammicus*, Boulenger, Cat. Sn. I 1893, p. 34 (s. syn.).

Snout rounded, projecting; nostrils inferior. Rostral about half the width of the head, extending to the level of the eyes, the inferior portion more long than broad; nasal incompletely divided, the cleft proceeding from the first labial to the upper surface of the head; praecocular present, narrower than the ocular, in contact with the second and third labials; eyes distinct; praefrontal, supraoculares and parietals much enlarged; four upper labials. Body with 22 scales round the middle; its diameter 31 to 50 times in the total length; tail one time and one fourth to two times as long as broad, ending in a spine.

Brown or olive above, the scales edged with light. Lower surface whitish, each scale with a brownish spot. Total length 717 mm.

Type-specimen examined in the Leiden Museum.

Habitat: Java (Batavia); Timor!; New Guinea 1). — N. and E. Australia.


Snout rounded, strongly projecting; nostril lateral. Rostral about one third the width of the head, extending to the level of the eyes; nasal completely divided, the cleft proceeding from the first labial; praeocular present, narrower than the ocular, in contact with the second and third labials; eyes distinct; praefrontal and supraoculars enlarged; praefrontal forming a broad suture with the rostral. Body with 22 scales round the middle; its diameter 33 times in the total length; tail more long than broad, ending in a spine.

Brownish-black above, the scales edged laterally with yellowish-white, so as to form 11 parallel lines, the inferior lateral line of which is a little indistinct. Lower surface also with longitudinal lines, a little lighter than those of the back; between lateral and ventral lines on the flanks three series of scales, with a dark punctuated median part. Total length 235 mm.; tail 8 mm. (After Roux; not seen by me).

**Habitat:** Lombok.


*Typhlops multilineatus*, Schlegel, Abbild. 1844, p. 40, pl. XXXII, fig. 39—42.

*Typhlops multilineatus*, Boulenger, Cat. Sn. I 1893, p. 50.

Snout with a sharp edge, strongly projecting; nostril inferior. Rostral very large, finely granulated, extending to between the eyes, the inferior part as broad as long; nasal incompletely divided, the cleft proceeding from the first labial; praeocular present, nearly as broad as the ocular, in contact with the second and third labials; eyes distinct; head-scales much broader than the scales of the body; four upper labials. Body with 20 scales round the middle; its diameter 50 to 60 times in the total length; tail nearly twice as long as broad, ending in a spine.

Grey above, each scale with a dark spot, the spots forming dark brown longitudinal lines on the series of scales. Lower surface lighter. Total length 370 mm.

**Habitat:** Ceram; Kei Islands; New Guinea (Sermowai river!, Angadi, Fak Fak).
8. Typhlops olivaceus (Gray).

Onychophis olivaceus, Gray, Cat. 1845, p. 133.
Typhlops olivaceus, Boulenger, Cat. Sn. I 1893, p. 50.

Snout with a narrow, sharp, transverse edge, strongly projecting; nostril inferior. Rostral large, the upper part three fifths the width of the head, not extending to the level of the eyes, the inferior part as broad as long; nasal incompletely divided, the cleft proceeding from the first labial; preocular present, about as broad as the ocular, in contact with the second and third labials; eyes distinct; praefrontal much enlarged; four upper labials. Body with 20 or 22 scales round the middle; its diameter 50 to 68 times in the total length; tail two times and a half as long as broad, ending in a spine.

Habitat: Borneo (Baram); Sangir Islands; Misol.—Philippines; N. W. Australia.

9. Typhlops lorenzi Werner.


Snout with a sharp horizontal edge, projecting; nostril inferior. Rostral not quite half the width of the head, not extending to the level of the eyes; nasal incompletely divided, the cleft proceeding from the first labial; preocular present, about as broad as the ocular, in contact with the second and third labials; eyes very distinct; scales between the eyes a little enlarged; four upper labials, increasing in size. Body with 22 scales round the middle; its diameter 56 times in the total length; tail a little more long than broad, ending in a spine.

Greyish-green above; rostral brown, bordered with light. Lower surface light olive-green. Total length 337 mm. (After Werner; not seen by me).

Habitat: Pulu Miang besar, east off Borneo.


Snout rounded, obtuse, projecting; nostril lateral. Rostral one third to half the width of the head, extending to the level of the eyes behind, separating the nasals completely; nasal completely divided, the cleft proceeding from the second labial and not reaching the upper surface of the head; praeocular present, larger than the ocular, in contact with the second and third labials; eyes barely distinguishable; supraoculars large, frontal and parietals feebly developed.

Body stout, with 26 scales round the middle, its diameter 27 times in the total length; tail much more broad than long, ending in a spine.

Olive-brown above, each scale with a pale edge; head-scales broadly edged with yellow; a yellow \(\underline{\text{ ] }}\) on the snout and a wedge-shaped yellow marking behind each eye; lower part of rostral and labials yellow. Lower surface yellow. Total length 280 mm.; tail 4 mm.

Type-specimen received from the Indian Museum, Calcutta, examined.

**Habitat:** "Malay Archipelago"! (Java?).

II. *Typhlops depressiceps* Sternfeld.


Head depressed; snout strongly projecting, with a sharp horizontal edge; nostril inferior. Rostral about three fifths the width of the head, not extending to the level of the eyes; nasal completely divided, the cleft proceeding from the second labial; praeocular present, much larger than the ocular, in contact with the second and third labials; eyes distinct; praefrontals a little enlarged.

Body with 24 scales round the middle, its diameter 70 times in the total length; tail about two times and a half as long as broad.

Brownish-yellow above; head and lower surface a little lighter. Total length 328 mm. (After Sternfeld; not seen by me).

**Habitat:** New Guinea.
12. Typhlops conradi Peters.

Typhlops conradi, Peters, Mon. Berl. Ac. 1874, p. 162, pl. without number, fig. 1.

Snout rounded; nostril inferior. Rostral two fifths the width of the head, extending nearly to the level of the eyes; nasal incompletely divided, the cleft proceeding from the second labial; praecocular present, much larger than the ocular, in contact with the second and third labials; eyes distinct; head-scales enlarged; four upper labials. Body with 18 scales round the middle; its diameter 58 times in the total length; tail a little more broad than long.

Brown above; head and end of tail white. Lower surface light. Total length 175 mm. (After Peters; not seen by me).

Habitat: N. Celebes.

Note. Boulenger supposes, that T. conradi Peters may be the same as T. ater Schleg. and that the presence of a subocular has not been observed (see Proc. Zool. Soc. 1897, p. 217).


Typhlops bipartitus, Boulenger, Cat. Sn. I 1893, p. 37.

Snout rounded; nostrils inferior. Rostral large; nasal incompletely divided; praecocular present, as broad as the ocular; eyes distinct in one specimen, not visible in another; four upper labials. Body with 22 scales round the middle; tail more long than broad, ending in a small spine.

Yellowish-green above; light brown below. Total length 250 mm. (After Sauvage; not seen by me).

Habitat: N. New Guinea (Tidore Island?).

14. Typhlops florensis Boulenger.


Snout rounded, projecting; nostril inferior. Rostral about one fourth the width of the head, not extending to the level of the eyes, the lower portion half as broad as long; nasal incompletely divided, the cleft proceeding from the second labial and extending to the upper surface of the snout; praecocular

---

1) Tidore Island is a small island near Ternate; but T. bipartitus has been enumerated in a list of reptiles from the northern part of New Guinea.
present, narrower than the ocular, in contact with the second and third labials; eyes distinguishable; prefrontal, supraoculars and parietals enlarged; four upper labials. Body with 22 scales round the middle; its diameter 42 times in the total length; tail twice as long as broad, ending in a spine.

Olive-grey above; whitish below. Total length 255 mm. Type-specimen examined in the British Museum.

Habitat: Flores!.

15. Typhlops leucoproctus Boulenger.


Snout rounded, projecting; nostril lateral. Rostral about one third the width of the head, extending to the level of the eyes; nasal incompletely divided, the cleft proceeding from the second labial; preocular present, a little narrower than the ocular, in contact with the second and third labials; eyes distinguishable; head-scales a little enlarged; four upper labials. Body with 20 scales round the middle; its diameter 40 to 65 times in the total length; tail one time and a half to two times as long as broad, ending in a spine.

Dark brown above, the scales with a light anterior margin in the anterior part of the body; lighter below; labials and anal region yellowish. Total length 220 mm.

Habitat: New Guinea (Fly River!). — Queensland; Murray Island.


Typhlops flaviventer, Boulenger, Cat. Sn. I 1893, p. 25.

Snout rounded, strongly projecting; nostril lateral. Rostral narrow, its upper part one third the width of the head, extending nearly to the level of the eyes; nasal incompletely divided, the cleft proceeding from the second labial; preocular present, nearly as large as the ocular; eyes distinct; head-scales a little enlarged; four upper labials. Body with 22 scales round the middle; its diameter 50 to 60 times in the total length; tail two times as long as broad, ending in a spine.

Blackish-brown above; yellowish below. Total length 300 mm.
Habitat: Batjan; Ternate; Halmahera; New Guinea (Fak Fak!, Mansinam Adorēh, Sattelberg).

17. Typhlops nigroalbus D. & B.


Snout rounded, strongly projecting; nostril lateral. Rostral narrow, its upper part about one third the width of the head, extending to between the eyes or not quite so far; nasal incompletely divided, the cleft proceeding from the second labial; praecocular present, broader than the ocular, in contact with the second and third labials; eyes distinct; head-scales much enlarged; four upper labials. Body with 26 scales round the middle; its diameter 30 to 33 times in the total length; tail more broad than long, ending in a spine.

Black above; yellowish below. Total length 360 mm.
Nom. indig. Ular balang.
Habitat: Nias!; Sumatra (Pakanten!, Surian!, Padang!); Borneo (Samarinda!). — Malay Peninsula; Penang; Singapore; Siam.

18. Typhlops mülleri Schlegel.

*Typhlops mülleri*, Schlegel, Abbild. 1844, p. 32, pl. XXXII, fig. 25—28.
*Typhlops mülleri*, Boulenger, Cat. Sn. I 1893, p. 25.

Differs from *T. nigroalbus* on the following points: Rostral broader and shorter, half the width of the head, not extending
to the level of the eyes. Scales in 26 or 28 series. Total length 285 mm.

Type-specimen examined in the Leiden Museum.

Habitat: Sumatra (Bila Penang, Labuan, Deli, Indragiri, Padang!).

19. *Typhlops* *ater* Schlegel.

*Typhlops* *ater*, Schlegel, Abbild. 1844, p. 39, pl. XXXII, fig. 29—31.

*Typhlops* *ater*, Bouleneger, Cat. Sn. I 1893, p. 53.

Snout rounded, nostril lateral. Rostral oval, long, extending to the level of the eyes; nasal completely divided, the cleft proceeding from the second labial; praeocular present, separated from the labials by a subocular; ocular in contact with the third and fourth labials; eyes distinct, under the suture between the praeocular and the ocular; four upper labials. Body with 18 scales round the middle; its diameter 68 times in the total length; tail nearly two times as long as broad, ending in a very small spine.

Black or dark brown above; reddish-brown below, inferior part of head and anal region white. Total length 164 mm.; tail 6 mm.

Type-specimen examined in the Leiden Museum.

Habitat: Java!; Celebes (Tomohon!); Ternate; Halmahera.

20. *Typhlops* *bisubocularis* Böttger.


*Typhlops* *bisubocularis*, Bouleneger, Cat. Sn. III 1896, p. 590.

Snout rounded, projecting; nostril lateral. Rostral about a third the width of the head; nostril between two nasals, the anterior small and in contact with the first and second labials; praeocular present, longer and narrower than the ocular, separated from the labials by two large suboculars, the anterior smaller than the posterior; borders of eyes not distinct; head-scales in three transverse series, broader and nearly two times as long as the scales of the body, especially the praefrontal; four upper labials. Body with 18 scales round the middle; its diameter 44 times in the total length; tail one time and a half as long as broad, with a very small and short spine at the end.

Dark grey above, each scale with narrow light edges. Lower surface light grey with broad light edges; edges of the head-scales, snout, chin, end of tail and some spots of the anal
region white. Total length 131 mm.; tail 4.5 mm. (After Böttger; not seen by me).

Habitat: West-Java.


Snout rounded, depressed, projecting; nostril lateral. Rostral nearly half the width of the head, not extending to the level of the eyes; nostril between two nasals, the anterior in contact with the first and second labials; preocular present, larger than the ocular, in contact with the second and third labials; a single subocular; eyes distinct; head-scales a little enlarged; four upper labials, third largest. Body with 20 scales round the middle; its diameter 43 times in the total length; tail a little more long than broad, ending in a spine.

Black above; a little lighter below; mouth bordered with yellow; anal region or end of tail yellow. Total length 170 mm.

Type-specimen examined in the British Museum.

Habitat: New Guinea (Sogere 1750 feet!, Albert Edward Ranges 6000 feet!).

2. Fam. *Boidae*.

Body strong, covered with uniform scales above; ventral scales transversely enlarged; eyes exposed. Ectopterygoid present; pterygoids, palatines and maxillaries movable, the former extending to the quadrate or mandible; supratemporal present, suspending quadrate; praefrontal in contact with nasal. Jaws toothed; mandible with coronoid; a mental groove. Small parts of pelvis and hind limbs, latter usually ending in a claw, visible on each side of the anal opening (fig. 5).

**Key to the Indo-Australian subfamilies and genera.**

A. Supraorbital bone present . . . . . . . . . . . . . . . . . . . . . . . *Pythoninae.*

1. Praemaxillary toothed.

   a. Rostral and anterior upper labials without or with shallow pits; tail not or slightly prehensile.
1. Nostril lateral, between two nasals.  
2. Nostril supero-lateral in a partly divided nasal.  
3. Rostral and anterior upper labials deeply pitted; tail prehensile.  
4. Praemaxillary toothless.  
5. No supraorbital bone; praemaxillary toothless.

II. Praemaxillary toothless.

Head slightly distinct from neck, covered with symmetrical shields; nostril lateral, between two nasals, which are separated from their fellows by the internasals; some of the lower labials pitted; eye small, pupil vertical; praemaxillary toothed; anterior teeth very long. Body a little compressed, covered with smooth scales. Tail short, not or slightly prehensile; most of the subcaudals in two rows:

Distribution. New Guinea; Bismarck Archipelago.
A single species.

1. Nardoa boa (Schlegel).

*Nardoa boa*, Boulenger, Cat. Sn. I 1895, p. 76.

Rostral about twice as broad as deep, not visible from above; internasals more broad than long, two fifths to one third the length of the praefrontals; one pair of praefrontals; frontal as long as broad or a little more long; two pair of parietals; loreal small; one large praecocular; two (three) postoculars; nine to twelve upper labials, two or three entering the eye; three or four of the posterior lower labials pitted. Scales in 35—39 rows; ventrals 245—267; anal entire; subcaudals 47—52.

Brown with black rings or uniform blackish-brown; a light spot behind the eye. Young specimens with black and orange rings. Length of head and body 830 mm.; tail 120 mm.; largest specimen known 1540 mm.
Feeds on mice; nocturnal.

2. Liasis Gray.


Head distinct from neck, covered with symmetrical shields; nostril in a semi-divided nasal; a pair of internasals, separating the nasals; rostral and upper labials pitted or without pits; some lower labials pitted; eye rather small; pupil vertical; praemaxillary toothed; anterior teeth very long. Body cylindrical or a little compressed, covered with small smooth scales. Tail moderate or short, not or very slightly prehensile; subcaudals in two rows or the greater part only.
Distribution. Timor; New Guinea; N. Australia.

Key to the Indo-Australian species.

A. Rostral without pits ............... 1. L. fuscus p. 16.
B. Rostral with a pit or groove on each side.

I. Two pair of praefrontals,
   a. Rostral scarcely visible from above; two post-oculars; first and second upper and five lower labials pitted ............... 2. L. mackloti p. 17.
   b. Rostral clearly visible from above; three post-oculars; first, second and third upper and three lower parietals pitted. ............... 3. L. tornieri p. 18.

II. A single pair of praefrontals.
   1. Upper labials 12 or 13, two or three anterior pitted; 6 lower labials pitted; parietals followed by small shields; subcaudals 62—79. ......... 4. L. albertisi p. 18.
   2. Upper labials 10 or 11, two or three anterior pitted; 4 lower labials pitted; parietals as long as frontal; subcaudals 82—88 ......... 5. L. papuanus p. 19.

1. Liasis fuscus Peters.

Liasis fuscus, Boulenger, Cat. Sn. I 1893, p. 78 (s. syn.).

Rostral more broad than deep, just visible from above, not pitted; internasals more long than broad, half the length of the praefrontals, which extend to the frontal or are separated
from it by a small shield; a second pair of much smaller praefrontals, separated from one another by the first pair of praefrontals; frontal about one time and a half as long as broad, slightly shorter than its distance from the tip of the snout; one or two pair of parietals; a single large loreal; one praef- and two postoculars; ten to twelve upper labials, first with a shallow pit, fifth and sixth or sixth and seventh entering the eye; three or four posterior lower labials pitted. Scales in 47 or 49 rows; ventrals 275—291; anal entire; subcaudals 65—72.

Brown above; yellowish below. Length of head and body 1140 mm.; tail 190 mm.

Habitat: Timor 1); New Guinea (Fly river!). — Islands of Torres Straits; N. Australia.

2. Liiasis mackloti D. & B.

Liiasis mackloti, Boulenger, Cat. Sn. I 1893, p. 79.

Rostral more broad than deep, scarcely visible from above, with a feeble pit on each side; internasals a little more long than broad, hardly half the length of the praefrontals, which separate the posterior, smaller pair of praefrontals; frontal about one time and a half as long as broad, as long as its distance from the tip of the snout; a pair of parietals, followed by smaller shields; a large loreal; one praef- and two postoculars; eleven upper labials, first and second pitted, fifth and sixth entering the eye; five posterior lower labials pitted.

Scales in 49—55 rows; ventrals 267—302; anal entire; subcaudals 64—49.

Brown above, with scattered, small, yellowish and dark brown spots. Lower surface yellowish or brownish. Length of head and body 1420 mm.; tail 260 mm.

Name. indig. Ular menke (Timor).
Habitat: Savu!; Samao!; Timor!.

3. Liasis tornieri Werner.


Rostral two times as broad as deep, clearly visible from above, with a shallow groove on each side; internasals one time and a half as long as broad, two thirds the length of the praefrontals, which separate the posterior pair of small praefrontals; frontal about one time and one fourth as long as broad, as long as its distance from the rostral; a pair of parietals; a single large loreal; a large praecocular, with a very small subocular below it (on one side); three elongate postoculans; eleven upper labials, first to third with a groove, fifth and sixth entering the eye; three posterior lower labials grooved. Scales in 65 rows; ventrals 375; anal entire; subcaudals 86, of which the first four are paired, the next four single, 65 paired and 13 single.

Brown above; head with dark dots. Lower surface yellowish-white. Length of head and body 1330 mm.; tail 220 mm.; attains a length of 2 M. (After Werner; not seen by me).
Habitat: New Guinea (Stephansort).


Leiopython gracilis, Hubrecht, Notes Leyden Mus. I 1879, p. 15.
Liasis albertisii, Boulenger, Cat. Sn. I 1893, p. 80.

Rostral more broad than deep, just visible from above, with a groove or pit on each side; internasals a little more long than broad, not half as long as the praefrontals; praefrontals large, in a single pair; frontal a little more long than broad, shorter than its distance from the tip of the snout; a pair of parietals, followed by small shields; a single, large loreal; a
large praecocular and three or four postoculars; twelve or thirteen upper labials, first two or three pitted, fifth and sixth or fifth to seventh entering the eye; six posterior lower labials pitted. Scales in 49—55 rows; ventrals 262—284; anal entire; subcaudals 62—79.

Reddish-brown above; head blackish; labials yellow with black bars. Lower surface yellow. Length of head and body 1250 mm.; tail 200 mm.; attains a length of more than 2 M.


5. Liasis papuanus Ptrs. & Doria.


**Liasis papuanus**, Boulenger, Cat. Sn. 1 1893, p. 80.

Rostral more broad than deep, visible from above, with a shallow groove or pit on each side; internasals about one time and a half as long as broad, two thirds to three fourths the length of the praefrontals; praefrontals large, in a single pair; frontal one time and a half as long as broad, as long as its distance from the rostral; parietals large, equalling the frontal; a single large loreal; praecocular large; two or three postoculars; ten or eleven upper labials, first two or three pitted, fifth and sixth or sixth and seventh entering the eye; four posterior lower labials pitted. Scales in 65—71 rows; ventrals 358—390; anal entire; subcaudals 82—88.

Olive-brown above; base of scales black. Lower surface yellowish. Length of head and body 1980 mm.; tail 320 mm.; attains a length of 3½ M.

Habitat: New Guinea (Ramoi, Fak Fak!). — Ferguson Island.

3. **Python** Daudin.


Head distinct from neck, covered with symmetrical shields or small scales on the crown and with large shields on the snout; nostril in a semi-divided nasal; a pair of internasals, separating the nasals; rostral and anterior upper labials deeply pitted; some lower labials pitted; eye with vertical pupil; praemaxillary toothed; anterior teeth very long. Body a little
compressed, covered with small, smooth scales. Tail moderate or short, prehensile; subcaudals in two rows or the greater part only.

Distribution. Tropical and South Africa; S. E. Asia; New Guinea; Australia.

Fig. 8. *Python curtus* Schlegel. $\times \frac{3}{16}$.

**Key to the Indo-Australian species.**

A. Subcaudals more than 50.

1. More than 60 scales across the body.
   b. Two upper labials pitted; 60—72 subcaudals. 2. *P. molurus* p. 22.

II. Scales in 60 rows or less across the body.
   a. Crown with large shields; four upper labials pitted.
      1. Four or five postoculars; six or seven
         lower labials pitted . . . . . . . . . . . . . . 3. *P. amethystinus* p. 24.
      2. Three postoculars; five lower labials pitted. 4. *P. timorensis* p. 25.
   b. Crown with scales or small irregular shields;
      2—3 upper labials pitted . . . . . . . . . . . 5. *P. spilotes* p. 26.

B. Subcaudals 28—32; two upper labials pitted . . . . 6. *P. curtus* p. 28.

1. *Python reticulatus* (Schn.).


*Python reticulatus*, Boulenger, Cat. Sn. I 1893, p. 85 (s. syn.).
Rostral as broad as deep, visible from above, with a deep pit on each side; internasals about one time and a half as long as broad; a pair of large praefrontals; supraocular large, sometimes divided; frontal large, usually single; two praec- and three or four postoculars; twelve to fourteen upper labials, four anterior deeply pitted, seventh or eighth entering the eye; two or three anterior and five or six posterior lower labials pitted (fig. 9). Scales in 69—79 rows; ventrals 297—330; anal entire; subcaudals 78—102.

Yellowish or brown above, with large dark markings, cross-shaped or rhomboidal; a black median line on the head from the tip of the snout to the nape; an oblique dark line from the eye to the corner of the mouth. Lower surface yellowish with small brown spots or brown. Young specimens with three series of whitish, black-edged spots on the back and sides. Total length 7.25 M.; attains a length of 9 M.

Nom. indig. Ular sawah, ular santja (mal.); sawah-n-ëtëm (Simalur); ular petola (Ambon).

Habitat: Simalur!; Nias; Mentawei Islands (Sipora); Sumatra (Atjeh!, Pangkalan Brandan!, Labuan, Medan!, Bralrang!, Langkat, Serdang!, Djambi!, Kertadja, Tandjung Laut, Palembang!, Battak Highlands, Padang Bedagei, Ringgat!, Indragiri, Padang Highlands!); Banka!; Riou!; Natuna Islands; Borneo (Singkawang, Sebruang Valley, Kuching, Baram, Lundu, Oya, Rejang river, Sandakan Bay, Bulangan river, Samarinda!, Balikpapan, Muara Djawa!, Bandjemassin); Java! (Batavia, Buitenzorg, Depok, Tengger Mts. 1200 M.); Sumbawa; Flores; Timor!; Celebes (Gorontalo, Minahassa, Manado!, Kema, Konawe river, Kandari, Macassar); Buton; Obi major!; Batjan; Ternate!; Halmahera!; Ambon!; Ceram!; Banda; Timor Laut.
Singapore; Penang; Malay Peninsula; Nicobars; Burma; Siam; Indo-China; Philippines.

A very common snake, living in the neighbourhood of water and feeding on mammals and birds; nocturnal. The eggs are large, oval, soft-shelled and are incubated by the female.

2. Python molurus (L.).

Python molurus, Boulenger, Cat. Sn. I 1893, p. 87.

Rostral more broad than deep, visible from above, with a deep pit on each side; internasals about one time and a half as long as broad; a pair of large praefrontals; supraocular large; frontal divided; two prac- and three or four postoculars; sometimes a series of suboculars (fig. 10b); eleven to thirteen upper labials, two anterior deeply pitted, usually sixth or seventh entering the eye (fig. 10a); some anterior and posterior lower labials pitted. Scales in 61—75 rows; ventrals 242—265; anal entire; subcaudals 60—72.

Dark brown above, with blackish markings bordering long, subquadrangular spots; flanks with large black-edged spots, with lighter or whitish centres; head with a triangular dark marking, sometimes distinct from the tip of the snout to the nape; a dark lateral streak, passing through the eye and a dark vertical bar below the eye. Lower surface yellowish, brown-spotted on the sides. Length of head and body 2400 mm.; tail 300 mm.; reaches a length of 10 M.

Habitat: Java; Celebes (Bonthain). — Malay Peninsula; Indo-China; S. China; Siam; India; Ceylon.

Note. P. bivittatus Schleg. has been regarded by BOULENGER as a synonym of P. molurus L. WERNER (op. cit.) distinguishes P. bivittatus as a distinct species, after having seen in the Vivarium in Vienna two kinds: light Pythons (molurus) and dark Pythons (bivittatus). The difference between these two forms is in the colour, in the scaling of the head and in length. WERNER describes them as follows: In P. molurus there is one labial entering the eye; the animal does not grow longer than about 4 M. and is of a greyish- or yellowish-brown colour, with reddish-brown, dark-edged spots, those of the flanks
usually with light centres; on the head the triangular dark marking is only distinct in its posterior part, on the nape (fig. 11a). This form is found in India and Ceylon.

*P. bivittatus* is distinguished by Werner by a row of suboculars, by its greater length (10 M.) and by its darker colour, the lanceolate marking on the head is dark and distinct to the tip of the snout (fig. 11b) and the dark spots of the flanks have no light centres. The places, where this form lives are: Indo-China, S. China, the Malay Peninsula, Java and Sumatra.

After examination of the specimens in the collections of the British Museum, the Leiden and Amsterdam Museums, and the living specimens in the Amsterdam, Rotterdam and

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**Fig. 10.** representing the extremes. *a. Light Python [P. molurus (L.)]*

  *b. Dark Python [P. bivittatus Schlegel.] Nat. size.*

London Zoological Gardens, I came to the conclusion, that *P. bivittatus* cannot be held up as a distinct species, but that the specimens of *P. molurus*, living in S. China and Java belong to a darker race than those from the Indian Continent. Proofs for my supposition are the following remarks. A young, light-coloured specimen from Assam in the British Museum, with the dark marking on the head distinct as far as the prefrontals has a series of suboculars; the skin from Hyderabad-Sind in Russell’s Indian Serpents is light-coloured but the triangular marking on the head is distinct as far as the nasals; a young specimen from India, also light-coloured has the dark marking on the head sharply defined as far as the internasals,
its seventh labial shows a curious shape, it is entering the eye, but a subocular is nearly formed (figured by Boulegger, Reptiles Malay Peninsula 1912, fig. 30, p. 106). The dark form found in Java may be named *P. molurus sondaica* Werner (see: Der Zoologische Garten XL, 1899, p. 24).

![Diagram](image)

Fig. 11. representing same specimens of fig. 10. a. Light Python [*P. molurus* (l.)]

b. Dark Python [*P. bivittatus* Schleg.] Nat. size.

The specimen of *P. molurus* from Macassar, mentioned by A. B. Meyer (Abh. Mus. Dresden 1886/87, p. 13) is not found in the Dresden Museum. But the collections of this Museum contain another specimen of the same species, collected by Ribbe & Kühn near Bonthain, S. Celebes.

3. *Python amethystinus* (Schn.).


*Python amethystinus*, Boulegger, Cat. Sn. I 1893, p. 83 (s. syn.).

Rostral as broad as deep or a little more broad than deep, visible from above, with a deep pit on each side; internasals as long as broad or a little more long than broad; praefrontals large, a second pair of smaller praefrontals, separated from one another; frontal large, in contact with the anterior pair of praefrontals or separated from them by one or two shields;
supraocular large; two or three pair of parietals; loreal region covered with smaller shields (fig. 12); two or three prae- and four of five postoculars; twelve to fourteen upper labials, four anterior deeply pitted, sixth and seventh or seventh and eighth entering the eye; six or seven posterior lower labials pitted. Scales in 39—53 rows; ventrals 289—349; anal entire; subcaudals 85—120.

Yellowish- or reddish-brown above, uniform or with dark markings. Lower surface yellowish. Length of head and body 2710 mm.; tail 400 mm.; attains a length of 3\frac{1}{2} M.

Habitat: Timor; Banda; Saparua!; Ambon!; Ceram!; Haruku!; Halmahera; Batjan!; Salawatti; Misol; New Guinea (Jobi, Yule and Nicura Islands, Sorong, Fak Fak, Jakati, Mansinam, Humboldt Bay!, Jamur river, Tobadi, Setekwa river, Lorentz river!, Erina, Astrolabe Bay, Stephansort, Eitapé, Garup, Simpsonhafen, Fly river, St. Joseph river, Moroka in Bartholomew Range 2300 feet, Bara Bara); Kei Islands; Aru Islands; Timor Laut. — Trobriand Island; Bismarck Archipelago; Islands of Torres Straits; N. Queensland.

Note. Bouleguer distinguishes three groups of colour varieties:
1. Uniform brown, or with indistinct dark and light markings;
2. Pale brown with dark cross-shaped markings and two stripes on each side;
3. Dark reddish-brown, with whitish spots or irregular transverse bars.
4. Python timoriensis (Ptrs.).

Liasis amethystinus var. timoriensis, Peters, Mon. Berl. Ac. 1876, p. 533, pl. without number, fig. 3.
Rostral as broad as deep, just visible from above, with a deep pit on each side; internasals much more long than broad, as long as the anterior præfrontals; a second pair of praefrontals; supraocular and frontal large; two pair of parietals; loreal region covered with small shields (fig. 13); a large and a small præocular; three postoculars; twelve upper labials, four anterior deeply pitted, sixth entering the eye; five of the lower labials pitted. Scales in 60 rows; ventrals 288; anal entire; subcaudals 22 + ?, last 9 single.

Reddish-brown above, with blotches of dark scales; head with a median dark line. Lower surface yellow. Length of head and body 793 mm.; tail (broken) 45 mm.

Habitat: Flores! (type of Liasis Petersii Hubr.); Timor.

5. Python spilotes (Lacépède).

Python spilotes, Boulenger, Cat. Sn. I 1893, p. 82 (s. syn.).

Rostral as broad as deep, or a little more deep than broad, visible from above, with a deep pit on each side; internasals as long as broad; a pair of præfrontals, sometimes broken up into
small shields, like the other scales of the crown; sometimes a frontal and two or three supraoculars distinguishable; loreal region covered with small scales (fig. 14); eleven to thirteen upper labials, two or three anterior deeply pitted, sixth and seventh or seventh and eighth entering the eye; six or seven lower labials pitted. Scales in 45—53 rows; ventrals 251—304; anal entire or divided; subcaudals 63—92.

Black, olive-brown or pale brown above, variegated with yellow and black. Length of head and body 1750 mm.; tail 250 mm.


This tree-Python is very variable in coloration. Three forms may be distinguished:

1. Black above, each scale with a yellow dot, and sometimes with scattered yellow, black-edged spots; upper labials black-edged. Lower surface yellow, posterior ventrals and subcaudals spotted or edged with black.

2. Olive-brown above, each scale edged with black, with yellow, black-edged spots and transverse bars, or with three yellow stripes, the middle one partly interrupted; upper labials black-edged. Lower surface yellow, posterior ventrals and subcaudals spotted or edged with black.

3. Pale brown with dark brown, black-edged spots or transverse bands, or dark brown with lighter markings; upper labials yellow or anterior labials black-edged; sometimes a light, dark-edged streak on each side of the body anteriorly. Lower surface yellow, spotted with black.

var. macrospila Werner.


Differs on the following points:

Rostral followed by 3 pair of shields; five or six lower labials pitted. Scales in 41 rows. Three series of dark spots, alternating.

Length of head and body 1500 mm.; tail 250 mm. (After Werner; not seen by me).

Habitat: ?. A single male specimen in the Brussels Museum.
6. Python curtus Schlegel.

*Python curtus*, Schlegel. Dierentuin, Rept. 1872, p. 54, with fig.

*Python curtus*, Boulenger, Cat. Sn. I 1893, p. 89 (s. syn.).

Rostral more broad than deep, visible from above, with a deep pit on each side; internasals as long as broad; two pair of large prefrontals; frontal longitudinally divided; supraocular large; several pair of transverse parietals; loreal large; a preocular with small scales below it (fig. 15); one or two postoculars; sometimes a series of suboculars; ten or eleven upper labials, two anterior deeply pitted; anterior and posterior lower labials feebly pitted. Scales in 53—57 rows; ventrals 160—175, anal entire; subcaudals 26—32.

Brown or red above, with round pale spots, sometimes confluent, on the vertebral line; flanks with grey, black-edged spots or wavy bands; head with a black median line, followed by white, black-edged spots; a broad dark band on each side of the head, with an oblique white streak from the eye to the corner of the mouth. Lower surface whitish, sometimes spotted with brown. Length of head and body 1250 mm.; tail 120 mm.; attains a length of 3 M.

Habitat: Sumatra (Medan in Deli!, Surbo Dolok in Raja Mts.); Borneo (Kuching, Lawas in Bruni, Sibu, Telang). — Singapore; Malay Peninsula.

Likes swampy country; feeds chiefly on rats.


Head distinct from neck, covered with small scales; nostril in a single or divided nasal; a pair of internasals, separating the nasals, and separated from each other by small scales;
rostral, anterior upper labials and a few lower labials deeply pitted; eye with vertical pupil; praemaxillary without teeth; anterior teeth large, posterior small. Body a little compressed, covered with small, smooth scales. Tail moderate, prehensile; subcaudals in two rows.

Distribution. New Guinea; Aru Islands.

A single species.

1. *Chondropython viridis* (Schlegel).

*Python viridis*, Schlegel, Dierentuin, Rept. 1872, p. 54.

*Chondropython viridis*, Boulenger, Cat. Sn. 1 1893, p. 90 (s. syn.).

Rostral as broad as deep, or a little more narrow than deep; a pair of nasals and a pair of internasals; head covered with small scales, 17—20 from eye to eye on the forehead; scales round the eye not larger than the others; twelve to fifteen upper labials, two or three anterior pitted; sixth to eighth or eighth and ninth entering the eye; seventh to twelfth, eighth to thirteenth, or ninth to fourteenth lower labials pitted. Scales in 57—65 rows; ventrals 227—254; anal entire; subcaudals 68—129.

Green above, uniform or with small yellow spots along the back; or red with bluish, black-edged spots. Lower surface whitish or yellowish. Young specimens pinkish or yellow, with red or red-brown markings or rust-brown with sulphurous spots. A young specimen from the Lorentz river, S. New Guinea showed the following colours: reddish-brown above; a narrow dark line from the nape to the tail not broader than one scale; on each side of this line a series of triangular yellow spots, bordered with brown, most of them alternating; along each side of the body a series of small yellow spots, covering about three or four scales; on each side of the head a line from the nostril to the temporal region, passing through the eye; two yellow spots between the eyes; on the occiput a |-shaped band; just behind the head an elongate yellow spot, bordered with brown; tail with dark brown transverse lines. Length of head and body 1250 mm.; tail 200 mm.

Nom. indig.: Yamomong (German New Guinea).

Type-specimen examined in the Leiden Museum.

Habitat: Aru Islands! (Manumbai on Kobroor); New Guinea (Jobi, Mafoor, Mt. Arfak, Mansinam, Andai!, Humboldt Bay!, lake Sentani, Mimika-, Setekwa- and Lorentz! rivers, Eitapé,
Fig. 16. *Chondropython viridis* (Schleg.) $\times \frac{1}{2}$.

Head $\times \frac{1}{8}$. 
Bogadjim, Bongu, Astrolabe Bay, Sattelberg 800 M., Bara Bara, Albert Edward Range 6000 feet, Dinawa in Owen Stanley Range, Milne Bay, St. Joseph river); Schouten Islands (Mysore).

Subfamily Boinae.

5. **Enygrus** Wagler.


Head distinct from neck, covered with small scales; eye with vertical pupil; praemaxillary without teeth; anterior teeth large, posterior small. Body compressed, covered with keeled scales. Tail short, prehensile; subcaudals single.

Distribution. Moluccas; New Guinea; Polynesia.

**Key to the Indo-Australian species.**

A. Two or three labials entering the eye . . . . . . . 1. *E. carinatus* p. 31.

B. A series of suboculars.

1. Subcaudals 14—22 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2. *E. asper* p. 32.

2. Subcaudals 50—62 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3. *E. australis* p. 33.

1. **Enygrus carinatus** (Schn.).


*Enygrus carinatus*, Boulenger, Cat. Sn. I 1893, p. 107 (s. syn.).

Snout very prominent, obliquely truncate; canthus rostralis angular; rostral more broad than deep, not visible from above; sometimes some supraocular scales enlarged; head with small, irregular scales, with small tubercles or short keels, five to ten scales between the eyes on the forehead; eye bordered by 10—14 scales; ten to thirteen upper labials, two or three entering the eye. Scales in 33—43 rows, all strongly keeled, the keels forming straight lines; ventrals 160—200; anal entire; subcaudals 38—56.

Yellowish or pale reddish-brown above with dark brown markings. Length of head and body 790 mm.; tail 110 mm.

**Habitat**: Celebes (Minahassa); Sangir Islands; Salibabu Islands!; Halmahera!; Ternate!; Batjan!; Ceram!; Ambon!; Haruku!; Saparua!; Banda; Goram; Timor Laut; Misol; Batanta; Salawatti; New Guinea (Jobi, Rubi, Dorei, Sorong, Andai, Mansinam, Djamna Island, Wendesi, Mawes, Humboldt Bay, Tanah Merah Bay!, Kaiserin-Augusta or Sepik river!, Mimika river, Lorentz river, Tami, Bongu, Bogadjim, Simpsonhafen,
Friedrich-Wilhelmshafen, Erima, Astrolabe Bay, Huon Bay, Bukaua, Sattelberg, Bara Bara, Haveri); Valise Island; Schouten Islands (Mysore). — Ferguson Island; Trobriand Island; Woodlark Island; Louisiade Archipelago; Solomon Islands; Bismarck Archipelago; Pelew Islands.

Three groups of colour varieties may be distinguished:

1. Yellow or pale brown above, with dark markings and stripes; lores and temples dark brown with yellow spots. Lower surface yellow, with dark brown blotches or a stripe on each side and speckled with brown in the middle.

2. Yellow or brown above, with a dark zigzag dorsal band or rhomboidal blackish spots; head with a dark streak on each side. Lower parts spotted with black.

3. Yellow or pale red-brown above, uniform or with dark spots. Lives on trees.

2. Enygrus asper (Gthr.).


Snout prominent, oblique, truncate; canthus rostralis angular; rostral more broad than deep, not visible from above; head covered with small irregular scales with small tubercles or short keels; 8—11 scales between the eyes on the forehead; eye bordered by 10 to 15 (18) scales; nine to thirteen upper labials separated from the eye. Scales in 33—39 rows,
all strongly keeled, the keels forming oblique lines; ventrals 130—153; anal entire; subcaudals 14—22.

Red-brown above, with a series of large, dark, black-edged spots on the back, sometimes confluent into a zigzag stripe. Lower surface yellow, uniform or brown-spotted. Length of head and body 930 mm.; tail 55 mm.

Habitat: Goram; Misol!; Batanta; Salawatti; Waigeu!; New Guinea (Jobi, Sorong, Fak Fak, Andai, Mawes, Moaif, Matterer Bay, Humboldt Bay!, Moosso river, Tami river, lake Sentani!, Koimé river!, Pokembo, Cyclop Mts., Parau, Kaiserin-Augusta or Sepik river!, Mimika river, Lorentz river!, Eitapé, Bongu, Simpsonhafen, Berlinhafen, Friedrich-Wilhelmshafen, Erima, Stephansort, Astrolabe Bay, Bukaua, Sattelberg, Dinawa in Owen Stanley Range, Madew on St. Joseph river 2—3000 feet); Seleo Island; Valise Island; Schouten Islands (Mysore). — Duke of York Island; Bismarck Archipelago.

Note. A specimen from Matterer Bay, N. New Guinea was caught at sea.

3. Enygrus australis (Montrouzier).

Boa australis, Montrouzier, Rev. et Mag. Zool. XII 1866, p. 95.

Snout prominent, truncate; canthus rostralis rounded; rostral more broad than deep, not visible from above; head covered with small, irregular scales with tubercles or short keels; 11—14 scales between the eyes on the forehead; eye bordered by 14—18 scales; ten to fourteen upper labials, separated from the eye. Scales in 37—41 rows, all strongly keeled, the keels forming straight lines; ventrals 232—295; anal entire; subcaudals 50—62.

Brown, olive or reddish above, with or without a series of large dark spots, sometimes forming a zigzag band or a dark vertebral stripe, edged with yellow; sometimes a series of light spots along each side; a dark streak on each side of the head, passing through the eye and a dark bar between the eyes. Lower surface uniform yellowish or spotted with black. Length of head and body 990 mm.; tail 140 mm.

Habitat: Woodlark Island. — Solomon Islands; Bismarck Archipelago; New Hebrides; Loyalty Islands; Samoa.
3. Fam. Ilysiidae.

Body round, covered with uniform scales above; ventrals not or feebly enlarged. Bones of the head more or less solidly united; ectopterygoid present; pterygoid extending to the quadrate; supratemporal small, between the other bones; quadrate short; prefrontal in contact with nasal. Mandible with coronoid; jaws and palate toothed. Parts of pelvis the same as in preceding family, ending in a claw, usually visible on each side of the anal opening.

This family is intermediate between the Boidae and the Uropeltidae, an Indian and Ceylonese group of burrowing snakes.

Key to the Indo-Australian genera.

A. No mental groove. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1. Anomalochilus p. 34.
B. Mental groove present . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2. Cylindrophis p. 35.

1. Anomalochilus Lidth.


Head small, not distinct from neck, covered with large, symmetrical shields; nostril in a single nasal, touching the second upper labial and forming a suture with its fellow behind the nostril; no loreal or preocular; a postocular; eye small, distinct from the surrounding shields; praemaxillary toothless; no mental groove (fig. 18). Body round, covered with smooth scales, in 21 rows; ventrals scarcely enlarged. Tail short and blunt; subcaudals single, paired at the end.

Distribution. Sumatra.

A single species.

1. Anomalochilus weberi Lidth.


Head very small, depressed; the distance between the corners of the mouth equals that between an angle of the mouth and the tip of the snout; rostral large, more deep than broad; frontal nearly two times as large as the supraciliary, quadrangular, the anterior angle obtuse, the posterior almost right; parietals not enlarged; postocular small, triangular; four upper labials, third largest, touching the prefrontal and the eye.
Scales in 21 rows; ventrals scarcely differing from the others, 244; anal divided; subcaudals 8, 6 undivided.

Brown above, the scales edged with light; a series of about 28 round, light spots on each side of the back, paired or alternating; an interrupted whitish line on the flanks; prefrontals and frontal each with a light spot; two small, round spots on the tip of the tail. Lower surface with irregular light spots, placed in pairs or confluent; anal whitish; lower part of tail with a white cross band.

Type-specimen examined in the Leiden Museum.

Habitat: Sumatra (Kaju tanam!).

2. Cylindrophis Wagler.

(WAGLER, Icon. Amph., 1828).

Head small, not distinct from neck, covered with large, symmetrical shields; nostril in a single nasal; no loreal or preocular; a postocular; eye small, distinct from the surrounding shields, with round or vertically elliptic pupil; praemaxillary toothless; 10—12 subequal teeth in each maxillary; mental groove present (fig. 19). Body round, covered with smooth scales in 19—23 rows; ventrals not or feebly enlarged. Tail short and blunt.

Distribution. S. E. Asia; Ceylon.
Key to the Indo-Australian species.

A. Ventrals broader than the surrounding shields.
   I. Diameter of the eye about half its distance from the nostril; scales in 19 or 21 rows .... 1. C. rufus p. 36.
   II. Diameter of the eye one third to one fourth its distance from the nostril.
      a. Intercocular width equal to the length of the snout; scales in 21 rows ........... 2. C. lineatus p. 37.
      b. Intercocular width more than the length of the snout; scales in 23 rows .......... 3. C. opisthornodus p. 38.

B. No enlarged ventrals.
   1. Nasals forming a suture behind the rostral;

1. Cylindrophis rufus (Laur.).

Cylindrophis rufus, Boulenger, Cat. Sn. I 1893, p. 135 (s. syn.).

Diameter of the eye about half its distance from the nostril; the distance between the eyes more than the length of the snout; nasals forming a suture; frontal at least as large as the supraocular, larger than the parietals, as long as its distance from the rostral or longer; six upper labials, third and fourth entering the eye. Scales in 19 or 21 rows; ventrals not twice as large as the neighbouring scales, 185—245; anal divided; subcaudals 5—10.

Fig. 19. Cylindrophis rufus (Laur.) × 1/2. Lower view of head. × 4/3.
Brown or black above, iridescent, uniform or with alternating light transverse bands, sometimes an orange collar. Lower surface white, with transverse black spots or bands or black with white transverse bands; lower part of tail bright vermilion. Total length 825 mm.

**Nom. indig.** Ular kapala dua (mal.); ular gelenggang; oraj teropong (sund.); majara (Toradja-name).

**Habitat:** Sumatra (Labuan, Medan!, Langkat, Stabat, Assahan, Bedagei, Indragiri, Padang, Kertadjaja, Benakat, Lematang ilir in Palembang); Banka!; Riou; Java (Batavia, Buitenzorg, Sukabumi!, Kagok in Tegal!, Pekalongan!, Semarang!, Ambarawa, Kediri!, Ngawi, Tengger Mts. 1200 M., Surabaia!); Borneo (Baram river, Rejang river, Sadong, Kuching, Buntok, Barito river, Mt. Dulit, Singkawang, Sintang, Landak!, Balikpapan, Bandjermassin, Pontianak); Celebes! (Manado, Posso!, Matinang Mts. 3300 feet, Tomohon, Tempe!, Macassar!); Sangir Islands; Batjan. — Singapore; Penang; Malay Peninsula; Burma; Siam; Cambodja.

This burrowing snake is viviparous; when worried it remains flat on the ground and raises its tail so that it resembles the head, hence the malay name, which signifies: two-headed snake; in Central Celebes it is also designed as the snake with two heads.

**2. Cylindrophis lineatus** Blanford.


*Cylindrophis lineatus*, Boulenger, Cat. Sn. 1 1893, p. 137.

Diameter of the eye about one third to one fourth its distance from the nostril; the distance between the eyes equals the length of the snout; nasals forming a suture; frontal about as large as the supraocular, a little larger than the parietals; six upper labials, third and fourth entering the eye. Scales in 21 rows; ventrals almost twice as large as the neighbouring scales, 210—215; anal divided; subcaudals 9—10.

Dark brown or black above, iridescent, with two longitudinal whitish or red bands on the back; head and tail yellowish or red. Lower surface white, with alternating black transverse bands; lower part of tail white. Total length 730 mm.

**Habitat:** Borneo (Matang!, Pangkalan ampat). — Malay Peninsula? 1).

1) See BOULENGER, Reptiles Malay Peninsula 1912, p. 112.
3. Cylindrophis opisthorhodus Boulenger.


Diameter of the eye about one third its distance from the nostril; the distance between the eyes greater than the length of the snout; nasals forming a suture; frontal as large as the supraocular, slightly larger than the parietals, as long as its distance from the rostral; six upper labials, third and fourth entering the eye. Scales in 23 rows; ventrals only a little larger than the neighbouring scales, 184—187; anal divided, subcaudals 6—7.

Pale brown or buff above, with small, irregularly disposed black spots; head yellowish, black-spotted. Lower surface white, with continuous or alternating black transverse bars, which are connected on the sides by a black stripe from behind the head to the base of the tail; an interrupted black stripe along the middle of the belly; anal region black; lower part of tail of a bright pink colour. Total length 230 mm.

Type-specimens examined in the British Museum.

Habitat: Lombok 1500 feet.


Diameter of the eye about one third its distance from the nostril; the distance between the eyes equals the length of the snout; nasals forming a suture; frontal larger than the supraocular, much larger than the parietals, triangular, the anterior border as long as its distance from the snout and a little longer than its length; six upper labials, third and fourth entering the eye. Scales in 20 rows; no enlarged ventrals; subcaudals 6.

Black above; a white wavy line on the upper labials; on each side of the nape a triangular spot, the point directed posteriorly. Lower surface greyish-black with yellowish-white transverse bands of 2—3 rows of scales; subcaudals white. Total length 550 mm. (After ROUX; not seen by me).

Habitat: Wetar.

5. Cylindrophis isolepis Boulenger.


Diameter of the eye two fifths its distance from the nostril;
the distance between the eyes equals the length of the snout; nasals separated by the rostral, which is in contact with the praefrontals; frontal a little larger than the supraocular, much larger than the parietals, as long as its distance from the tip of the snout; six upper labials, third and fourth entering the eye. Scales in 22 rows; no enlarged ventrals; subcaudals 5.

Black above, each scale white-edged. Lower surface black with two alternating series of large, white blotches; lower part of tail orange. Total length 430 mm.

Type-specimen examined in the British Museum.

Habitat: Djampea Island!.

4. Fam. Xenopeltidae.

Body round, covered with uniform scales above, enlarged ventrals beneath. Bones of the head more or less solidly united; ectopterygoid present; pterygoid extending to the quadrate; supra-temporal present, suspending quadrate; praefrontal in contact with nasal. Jaws, palate and praemaxillary toothed; mandible without coronoid; a mental groove.

A single genus.

1. Xenopeltis Reinw.

(Reinwardt, in Boie, Isis p. 564, 1827).

Head not distinct from the neck; eye small, with vertically elliptic pupil; nostril between two nasals; frontal in contact with a large azygous interparietal, which is bordered by four parietals; mental groove present; dentary bone movable on the apex of the articular; numerous small, equal teeth, 4 on each side of the praemaxillary, 33—38 in the maxillary and 35 or 36 on each side of the mandible. Body cylindrical, covered with smooth scales in 15 rows; ventrals large. Tail short; subcaudals in two rows.

Distribution. India; Indo-China; Malay Peninsula and Archipelago.

A single species.

1. Xenopeltis unicolor Reinw.

Xenopeltis unicolor, Reinwardt in Boie, Isis 1827, p. 564.
Xenopeltis unicolor, Boulenger, Cat. Sn. I 1893, p. 168 (s. syn.).
Head depressed, snout rounded; nostril between two nasals; frontal as long as its distance from the rostral; praeocular large; two postoculars, upper one largest; a small supraocular, smaller than the upper postocular; a large, azygous interparietal, in the middle of four parietals; eight upper labials, first in contact with the internasal, fourth and fifth entering the eye; a pair of small chin-shields, in contact with the three anterior lower labials. Scales in 15 rows, smooth; ventrals 164—193; anal divided; subcaudals 26—31.

Brown or blackish above, iridescent, the scales light-edged; upper lip pale yellow. Lower surface white. In young specimens the head is whitish and a yellow collar is present. Length of head and body 900 mm.; tail 100 mm.

**Nom. indig.** Ular ekor merak; Soratu (Simalur); Ulen tana (C. Celebes).

**Habitat:** Simalur!; Nias!; Sumatra (Pulu Weh!, Atjeh, Medan!, Labuan, Langkat, Indragiri, Singkarah!, Rau, Gunung Sahilan!, Agam, Ringgat!, Padang!, Palembang!); Siak!; Riou!; Banka!; Java (Gadok, Buitenzorg!, Preanger, Salatiga!, Tengger Mts. 1200 M.); Borneo! (Kuching, Singkawang, Kapuas river, Kutei, Bulangan river, Balikpapan, Bandjermassin); Celebes
(Manado!, Posso!, Kema, Kandari). — Singapore; Penang; Malay Peninsula; Siam; Indo-China; Burma; S. India.
Generally lives underground, burrowing; feeds on small mammals and other snakes.

5. Fam. Colubridae.

Body round or compressed, covered with imbricate or juxta-posed scales, with or without apical pits, smooth or keeled; ventrals usually transversely enlarged. Bones of head movable; ectopterygoid present; pterygoid extending to the mandible or the quadrato; supratemporal suspending quadrato; praefrontal not in contact with the nasal. Maxillary horizontal; jaws toothed, praemaxillary without teeth; mandible without coronoid; a mental groove.

With regard to the teeth, the Colubridae may be divided into three groups:

A. Teeth not grooved, solid .................................. 1. Aglypha p. 41.
B. One or more posterior maxillary teeth grooved;
   more or less poisonous ........................................ 2. Opisthoglypha p. 179.
C. Anterior maxillary teeth grooved or perforated;

Each group is composed of a number of subfamilies:

Aglypha.
1. Postfrontal bone produced over the supraorbital region; scales not imbricate. Aquatic. ........ Acrochordinae p. 41.
2. Postfrontal bone not produced over the supraorbital region; scales imbricate. Aquatic, terrestrial or arboreal. .......... Colubrinae p. 46.

Opisthoglypha.

Proteroglypha.

Subfamily Acrochordinae.

Key to the Indo-Australian genera.

A. No distinct ventral shields.
II. Body and tail compressed, a fold below . . . . . 2. Chersydrus p. 43.

B. Ventral shields well developed.
   a. Head covered with uniform scales . . . . . . 3. Xenodermus p. 44.
   b. Head covered with symmetrical shields . . . . . 4. Stoliczkaia p. 45.

Aquatic snakes. Scales not imbricate.

1. Acrochordus Hornstedt.


Head not distinct from neck, small, covered with small juxtaposed scales; nostrils on the top of the snout, close together; eye very small; pupil vertically elliptic; teeth almost equal, about 15 in each maxillary. Body stout, a little compressed, covered with small, tubercular, spinose scales; no ventral shields. Tail short, round, prehensile.


Fig. 22. Acrochordus javanicus Hornst. \( \times \frac{1}{2} \).

Side view of head; \( n \) nostril.
1. Acrochordus javanicus Hornst.

*Acrochordus javanicus*, Boulenger, Cat. Sn. 1 1893, p. 173.

No shields on the head, but very small, rough scales, larger near the mouth; 120—150 scales round the body, dorsals largest.  
Brown or olive above, spotted or marbled with black. Lower surface lighter. Length of head and body 1855 mm.; tail 245 mm.; attains a length of nearly 3 M.

Nom. indig. Ular belalei gajah (mal.).  
Habitat: Sumatra (Upper Langkat, Indragiri); Siak!; Java! (Buitenzorg); Borneo! (Baram district, Sadong river, Sarawak); New Guinea (Mimika river, Lorentz river, Fly river). — Malay Peninsula; Siam; N. Queensland (rivers of the Gulf of Carpentaria).

Aquatic, living in ditches and canals. A female in captivity brought forth 27 young ones, which were very active. Feeds on water beetles and fruit.

2. Chersydrus Cuvier.

(Cuvier, Règne Anim. II p. 75, 1817).

Head not distinct from neck, small, covered with small juxtaposed scales; nostrils on the top of the snout, close together; eye very small; pupil vertically elliptic; teeth almost equal, 12—15 in each maxillary. Body stout, compressed, covered with small, rhomboidal, juxtaposed scales with a tubercle-like keel, spinose beneath; no ventral shields; a fold of the skin along the middle of the belly. Tail short, compressed, prehensile.

Distribution. S. E. Asia; Papuasia.

A single species.

1. Chersydrus granulatus (Schn.).

*Chersydrus granulatus*, Boulenger, Cat. Sn. 1 1893, p. 174 (s. syn.).

No rostral; a series of larger shields on the lips, separated from the mouth by a row of very small scales; no chin-shields. About 100 scales round the body, dorsals largest.  
Olive or blackish with lighter transverse bands or annuli, sometimes disappearing in the adult. Length of head and body 900 mm.; tail 100 mm.

Nom indig. Ular kadut (mal.).
Habitat: Sumatra (Atjeh!, Deli, Djambi!, Gunung Sahilan!, Ringgat!, Taluk!); Java (Batavia, Pekalongan river!, Pasuruan!); Flores!; Timor!; Borneo (Buntal); Celebes (North Celebes!, Kema, Macassar!); Ambon!; Ternate!; New Guinea (Fak Fak, Lorentz river, Merauke, Fly river, Jobi); Schouten Islands (Mysore). — Penang; Singapore; Malay Peninsula; Andamans; Siam; Cochin China; Burma; Madras; Ceylon; Philippines; N. Queensland.

Lives in rivers; often found at sea. Viviparous. Feeds on fish.

3. *Xenodermus* Reinh.

*(Reinhardt, Overs. Vid. Selsk. Forh. p. 6, 1836)*.

Head distinct from neck, covered with small juxtaposed scales; nostrils in a single nasal, directed forwards; eye moderate; pupil round; teeth almost equal, about 15 in each maxillary. Body slender, compressed, covered with small, keeled, juxtaposed scales and longitudinal rows of large tubercles; ventrals well developed. Tail long; subcaudals single.

Distribution. Malay Peninsula; Sumatra; Borneo; Java. A single species.

1. *Xenodermus javanicus* Reinh.


*Xenodermus javanicus*, Boulenger, Cat. Sn. I 1893, p. 175.

Rostral small, triangular, not visible from above; nasals in contact behind the point of the rostral; two pair of small shields behind them; labials enlarged, about 20 on each side. 40—48 scales round the body, the tubercles in pairs along each
side of the back, alternating with single ones on the vertebral line; ventrals 173–185; anal entire; subcaudals 128–147.

Fig. 24. Xenodermus javanicus Reinh. × ⅕.

Dark brown above; lower parts lighter. Length of head and body 225 mm.; tail 228 mm.

Habitat: Sumatra! (Perlak in S. Atjeh); Java!; Borneo (Kuching). — Penang; Malay Peninsula.

A rare species.

4. Stoliczkaia Jerdon.


Head distinct from neck, covered with large shields; nostrils directed forwards, in a single nasal; eye small or prominent; pupil round or vertically elliptic; teeth almost equal, small, about 14 in each maxillary. Body slender, compressed, covered with strongly keeled, elliptical, juxtaposed scales, larger towards the ventrals; latter well developed. Tail long; subcaudals single.

Distribution. N. E. India; Borneo.

A single species.

1. Stoliczkaia borneensis Boulenger.


Rostral moderate, triangular, not visible from above; inter-
nasals very narrow; praefrontals large, separated from the frontal and supraoculars by a series of scales; frontal more broad than long, shorter than the parietals; supraocular very small; eye prominent, with vertically elliptic pupil, bordered by the supraocular, two or three praecoculars, the fifth labial 1) and 7 or 8 small scales; nostrils large; loreal more long than deep; ten upper labials, last two longest; temporals small; a pair of small chin-shields in contact with three lower labials. Scales in 30 rows, largest on the vertebral region and near the ventrals; those between them small and separated by naked skin; ventrals 210; anal entire; subcaudals 124.

Rufous, with large blackish spots, as large as the space between them or larger, disposed in three longitudinal series. Lower surface brown, the shields edged with a yellowish colour. Length of head and body 510 mm.; tail 240 mm. (After BOULENGER; not seen by me).

Habitat: Borneo (Mt. Kina Balu 4200 feet).

Subfamily Colubrinae.

Key to the Indo-Australian genera.

A. Nostrils directed upwards.

1. Internasals absent; loreal present; maxillary and mandible with 5 or 6 solid teeth; scales in 19 rows. 5. Anoplohydryus p. 49.

2. Internasals small, trapezoid; loreal absent; maxillary, palatal and mandibular teeth with spatulate crowns, ribbed along the outer side, 23 in each maxillary; scales in 19 rows . . . . . . . . . . . . . . 6. Iguanognathus p. 50.

3. Internasals small, triangular or crescentic; loreal present; maxillary teeth small, equal, 20—25; scales in 17 or 19 rows . . . . . . . . . . . . . . 7. Opisthotropis p. 51.

4. Internasals and loreal present; maxillary teeth equal, 19 or 20; scales in 19 rows . . . . . . . . . . . . 8. Xenochrophis p. 53.

1) The species is figured with a series of suboculars, see fig. 26.
B. Nostrils lateral.

I. Teeth very small, equal, closely set, 37—50 in each maxillary, head not or slightly distinct from neck; pupil round; scales smooth, in 17 rows. 9. Polyodontophis p. 54.

II. Maxillary with less than 40 teeth.

† Head distinct from neck; internasals distinct from praefrontals.

1. Pupil round.

   a. Scales oblique, at least anteriorly.


   X X Scales in 13—15 rows.


   b. Scales in longitudinal series.

   1. Scales in even numbers, 12, 16 or 18. 13. Zaocys p. 71.

   2. Scales in odd numbers.

      + Posterior maxillary teeth longest.


         bb. Maxillary teeth 14—22, last two very large, separated from the others; scales keeled, in 19 rows. 15. Macropisthodon p. 91.


         dd. Maxillary teeth 12—20; scales smooth or keeled, in 13, 15 or 17 rows ............... 17. Zamenis p. 95.

      ++ Maxillary teeth equal.

         a. Ventrals rounded or angulate laterally; scales in 19—27 rows. . 18. Coluber p. 98.

         b. Ventrals and subcaudals with a lateral keel and a notch on each side; scales in 19 rows ............... 19. Gonyophis p. 106.

2. Pupil vertically elliptic.

   a. Anterior maxillary teeth enlarged, separated from the rest.


b. Posterior maxillary teeth largest; scales smooth.

aa. Eye moderate or small; ventrals with an obtuse lateral angle; maxillary teeth 15—20; scales in 15 or 17 rows. 22. Stegonotus p. 114.

bb. Eye large; ventrals strongly keeled on each side; maxillary teeth 8—10; scales in 13 or 15 rows. 23. Dryocalamus p. 118.

†† Head not distinct from neck; internasals distinct 1).

O Pupil round.

1. Posterior maxillary teeth smallest; scales in 15 rows. 24. Tetralepis p. 120.

2. Posterior maxillary teeth largest.


b. Maxillary teeth 6—8; pterygoid toothless; scales in 15 or 17 rows. 26. Oligodon 1) p. 127.

3. Maxillary teeth subequal.

a. Anterior temporal present.


bb. Praeocular present.

aa. Maxillary teeth about 18; scales in 15 or 17 rows. 28. Hydrablabes p. 135.

bb. Maxillary teeth 15—30; scales in 13 or 15 rows. 29. Ablabes p. 137.

cc. Maxillary teeth about 10; scales in 17 rows. 30. Oreocalamus p. 140.

b. No anterior temporal; scales in 15 rows.

1. Nostril between two shields.

X Supraocular absent; no praecocular; loreal absent. 31. Idiopholis p. 141.

XX Supraocular small; no praecocular; loreal present. 32. Agrophis p. 143.

2. Nostril in a single nasal.

a. Praeocular large, reaching or nearly reaching the nasal. 33. Rhabdophidium p. 145

b. Praeocular small or absent. 34. Pseudorhabdium p. 146.

O O Pupil vertically elliptic; scales in 17 or 19 rows. 35. Brachyorrhus p. 147.

1) Oligodon durheimi, pulcherrimus and praefrontalis have the internasals fused with the praefrontals.
††† Head not distinct from neck; internasals fused with praefrontals.

I. Nostril between two shields; scales in 15 rows. 36. Calamorhabdium p. 148.


Aquatic, terrestrial or arboreal snakes. Scales imbricate.

5. Anoplohydrus Werner.


Head short, not distinct from neck; eye small; pupil round; nostril directed upwards; nasals divided, in contact behind the rostral; internasals absent; loreal present. Maxillary and mandibular teeth 5—6, solid, anterior a little shorter than posterior; palate and pterygoid toothed. Body round, moderate, covered with smooth scales, without pits, in 19 rows.

Tail short; subcaudals partly in two rows.

Distribution. Sumatra.

A single species.

1. Anoplohydrus aemulans Werner.

Anoplohydrus aemulans, Werner, op. cit. fig. 3.

Rostral low, scarcely visible from above, more broad than deep; suture between the nasals as long as the praefrontal; frontal hexagonal, pointed behind, longer than its distance from the tip of the snout, shorter than the parietals; loreal more long than deep; one prae- and two post-oculars; temporals 1+2; seven upper labials, third and fourth entering the eye 1); four lower labials in contact with the anterior chin-shields; posterior chin-shields small, separated by scales; mental small, separated from the chin-shields by the first lower labials. Scales in 19 rows, ventrals 159; anal divided; subcaudals $\frac{1}{1} + 3 + \frac{30}{30} + 1$.

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1) The species is figured with 8 labials. the fifth entering the eye, see fig. 27.

INDO-AUSTRALIAN REPTILES II.
Blackish-brown above, iridescent, with narrow yellowish transverse bands, alternating on the back; flanks with broader yellow vertical spots from the third row of scales to the ventrals, partly alternating with the dorsal bands; anterior chin-shields with yellow centre. Chin and throat dark with yellowish spots in the middle of the scales. Length of head and body 374 mm.; tail 56 mm. (After WERNER; not seen by me). Habitat: Sumatra (Pudang in district Babongan).

6. Iguanognathus Boulenger.

(BouLENGER, Ann. Nat. Hist. (7) II p. 73, 1898).

Head small, slightly distinct from neck; eye small; pupil round; nostril directed upwards, between two nasals; internasals small, trapezoid; no loreal. Maxillary, palatal and mandibular teeth with spatulate crowns, ribbed along the outer side, about equal, 23 in each maxillary (fig. 28). Body round, covered with smooth scales without pits, in 19 rows; ventrals rounded. Tail moderate; subcaudals in two rows.

Distribution. Sumatra.
A single species.

1. Iguanognathus werneri

Iguanognathus werneri, BouLENGER, Ann. Nat. Hist. (7) II 1898, p. 73, tekst-fig.

Snout short and broad, rounded; rostral two times as broad as deep, just visible from above; internasals small, trapezoid, as long as broad; prefrontals as long as internasals, twice as broad; frontal twice as broad as the supraocular, longer than its distance from the tip of the snout, shorter than the parietals; three preoculars, the middle one in contact with the posterior nasal; three postoculurs; temporals 2 + 2; eight upper labials, fourth entering the eye;
four lower labials in contact with the anterior chin-shields; latter shorter than the posterior which are separated by scales. Scales in 19 rows, smooth, those on sacral region and tail striated and feebly keeled; ventrals 136; anal divided; subcaudals 53.

Dark brown above, sides lighter, with black vertical bars, spotted with white; a white line across the snout, a white, oblique streak behind the eye, widening towards the mouth; a pair of light spots on the parietals near their suture; five anterior labials with a small spot each. Lower surface whitish with black transverse bars, most of them interrupted and alternating, continued from the bars of the flanks; subcaudals black, each with a whitish spot. Length of head and body 263 mm.; tail 87 mm.

Type-specimen examined in the British Museum.

Habitat: Sumatra!.

Only one specimen known.

7. **Opisthotropis** Günther.


Head small, not distinct from neck; eye small; pupil round; nostril directed upwards; nasals divided or partly divided; internasals small, crescentic or triangular; loreal present. Maxillary and mandibular teeth small and equal, 20—25 in each maxillary. Body round, covered with keeled and striated scales, without pits, in 17 or 19 rows; ventrals rounded. Tail moderate; subcaudals in two rows.

Distribution. W. Africa; S. China; Sumatra; Borneo.

**Key to the Indo-Australian species.**

A. Scales in 17 rows; nasals separated . . . . . . . . . . . . . . 1. **O. rugosa** p. 51.
B. Scales in 19 rows; nasals in contact . . . . . . . . . . . . . . 2. **O. typica** p. 52.

1. **Opisthotropis rugosa** (Lidth).


Head depressed; rostral as deep as broad; nasal divided, separated from its fellow; internasals crescent-shaped, together forming a triangle with a rounded top; loreal large; a pair
of praefrontals; frontal as broad as long, pentagonal; one praefrontal and one postocular; temporals \(1+2\); twelve upper labials, last two smallest, third to tenth separated from the edge of the mouth by small trigonal scales and from the orbit by three suboculars; the ten anterior labials separated from the shields above them by a longitudinal groove; posterior chin-shields separated by two scales. Scales in 17 rows, strongly keeled and striated; ventrals 170; anal divided; subcaudals 95.

Olive above, the scales white-edged; anterior upper labials and outer row of scales yellow. Lower surface yellow. Length of head and body 343 mm.; tail 130 mm.

Type-specimen examined in the Leiden Museum.

Habitat: Sumatra (Kaju tanam!).

2. *Opisthotropis typica* (Mocq.).


Snout short and broad, depressed; rostral twice as broad as deep; nasals partly divided, in contact behind the rostral; internasals small, triangular; praefrontal single or double; frontal large, as long as broad, pentagonal; supraocular very small; loreal long, divided or partly divided; two praefrontals and two postoculars; temporals \(1+1+2\); eleven upper labials, separated from the orbit by three suboculars, six anterior, twice as deep as long, four last divided. Scales in 19 rows, keeled and striated; ventrals \(174-184\); anal divided; subcaudals \(76-85.\)
Olive-brown above; yellowish below. Length of head and body 295 mm.; tail 95 mm.
Type-specimen examined in the Paris Museum.
Habitat: N. Borneo (Mt. Kina Balu!).

8. **Xenochrophis** Günther.


Head slightly distinct from neck; eye small; pupil round; nostril directed upwards and slightly outwards; nasal undivided; a pair of internasals; loreal present. Maxillary teeth 19 or 20, subequal; anterior mandibular teeth largest. Body round or a little compressed, covered with keeled scales, without pits, in 19 rows; ventrals rounded. Tail moderate; subcaudals in two rows.

Distribution. India; Malay Peninsula; Sumatra.
A single species in the Indo-Australian region.

1. **Xenochrophis viperinus** Schenkel.


Head triangular, snout slightly turned up; canthus rostralis distinct, loreal region concave; rostral twice as broad as deep, visible from above; nasal undivided, but traces of a dividing groove present; internasals about as long as broad, their outer border parallel, not convergent; praefrontals larger than the internasals; frontal longer than its distance from the tip of
the snout, shorter than the parietals; loreal small, about twice as deep as long; two prae- and three or four postoculars (lower of the latter perhaps a subocular); temporals 2 + 3 + 3, the anterior very small; seven upper labials, third and fourth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior, which are separated by a scale. Scales in 19 rows; ventrals 101; anal divided; subcaudals 59.

Greyish above; head reddish-brown with small, yellow dots;

upper lip pale brown, with black spots on the lower part of the posterior labials and a yellow longitudinal line, continued on the sides of the neck and body as a yellow streak, interrupted by about 30 black transverse spots. Lower surface black; throat dotted with light. Length of head and body 176 mm.; tail 74 mm.

Type-specimen received from the Basle Museum, examined.

Habitat: Sumatra (Indragiri!).


(Boulenger, Fann. Ind. Rept. p. 301, 1890).

Head short, not or slightly distinct from neck; eye rather small; pupil round. Teeth very numerous, equal, 30—50 in each maxillary; dentary bone free from the articular posteriorly. Body round, long, covered with smooth scales, without pits, in 17 or 19 rows. Tail long; subcaudals in two rows.

Distribution. Madagascar; Comoro Islands; S. E. Asia; C. America.

A single species in the Indo-Australian region.

1. Polyodontophis geminatus (Boie).

Coluber geminatus, Boie, Isis 1826, p. 211.
Polyodontophis geminatus, Boulenger, Cat. Sn. I 1893, p. 185 (s. syn.).

Rostral twice as broad as deep, visible from above; suture between the internasals shorter than that between the prefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or slightly more deep; a preocular; two postoculars, in contact with the parietal; temporals 2 + 2; nine upper labials, fourth to sixth entering the eye; four lower labials in contact with the anterior chin-shields; latter as large as the posterior. Scales in 17 rows; ventrals 144—183; anal divided; subcaudals (51) 89—145.

Brown or black above, usually with two light longitudinal streaks, which may be black-spotted; upper lip with a white, black-edged streak; a yellow or black collar sometimes present, head yellowish, reddish-brown or dark brown above, with yellow black-edged spots. Lower surface yellowish, each ventral and subcaudal with a black spot at the outer end. Length of head and body 485 mm.; tail 335 mm. (tip broken).

Habitat: Nias; Sumatra (Serdang!); Borneo (Kina Balu, Baram, Muching, Kuching, Sarawak, Mukah, Singkawang, Pontianak river); Java (Buitenzorg, Tjipanas!, Salatiga!, Nong-kodjadjar in Tengger Mts. 1300 M.!); Lombok. — Malay Peninsula; Singapore; Siam.

Fig. 32. Polydentophis geminatus (Boie) $\times \frac{3}{4}$. Side view of head.

(Boulenger, Faun. Ind. Rept, p. 340, 1890).

Head distinct from neck, which is dilatable (fig. 33); eye large; pupil round. Maxillary teeth 20—28, increasing in size posteriorly; the last two separated from the others by an interspace and much enlarged; mandibular teeth subequal. Body round, covered with imbricate scales in 17 or 19 rows, without pits, dorsals keeled, those on the anterior part of the body narrow and in oblique series; ventrals rounded. Tail moderate; subcaudals in two rows.

Distribution. India; S. China; Java.

A single species in the Indo-Australian region.


*Xenodon inornatus*, Boie, Isis, 1827, p. 541.


Fig. 33. *Pseudoxenodon inornatus* (Boie) \( \times \frac{4}{5} \).

Young specimen with black oblique bands on the background.

Rostral more broad than deep, visible from above; inter-
nasals shorter than the praefrontals; frontal as long as or longer than its distance from the tip of the snout, shorter than the parietals; loreal more deep than long; two or three praefrontals and three postoculars; temporals $2 + 2$ or $2 + 3$; eight upper labials, fourth and fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter and the posterior pair about equal and broad. Scales in 19 rows, dorsals keeled, laterals smooth; ventrals $118—121$; anal divided; subcaudals $36—41$.

Olive-brown above; lower surface yellowish or brownish, speckled with dark brown; a light streak on each side. Young ones with a \(\wedge\)-shaped black band on the nape. Length of head and body 400 mm.; tail 70 mm.

Type-specimen examined in the Leiden Museum.

**Habitat:** Java!

**11. Dendrophis** Boie.

*(Boie, Isis, p. 520, 1827).*

Head distinct from neck, rather long; eye large; pupil round. Maxillary teeth 20—33, posterior enlarged; anterior mandibular teeth longest. Body long, compressed, covered with smooth scales with pits, in 13 or 15 rows, disposed obliquely, the vertebral row enlarged; ventrals with a lateral keel and notch. Tail long; subcaudals in two rows, keeled and notched like the ventrals.

**Distribution.** S. E. Asia; Australia.

**Key to the Indo-Australian species.**

**I.** Eye not longer than its distance from the nostril;
maxillary teeth 20—26.

1. Scales in 15 rows . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 1. *D. pictus* p. 58.

II. Scales in 13 rows.

a. Ventralts 174—211; a dark streak on each
side of the head . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2. *D. calligaster* p. 60.

b. Ventralts 159—163; a dark streak on each
side of the head . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3. *D. lorentzi* p. 62.

c. Ventralts 191—220; no dark streak on the
sides of the head . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 4. *D. punctulatus* p. 63.

**B.** Eye usually longer than its distance from the
nostril; maxillary teeth 27—33.
II. Scales in 13 rows.
b. Two postoculars.

1. Frontal as long as its distance from the
tip of the snout, as long as or a little
shorter than the parietals; upper lip yellow;
2. Frontal as long as its distance from the
tip of the snout, much shorter than the
parietals; upper lip white, sharply limited
above by a black line; subcaudals 137—147. 8. D. meeki p. 66.
3. Frontal much longer than its distance from
the tip of the snout, slightly shorter than
the parietals; upper labials yellowish-white,
with a dark band behind the eye; sub-

1. Dendrophis pictus (Gmel.).

Dendrophis pictus, Boulenger, Cat. Sn. II 1894, p. 78 (s. syn.).

Maxillary teeth 23—26; eye as long as its distance from
the nostril. Rostral more broad than deep, visible from above;
internasals as long as or slightly shorter than the praefrontals;
frontal as long as its distance from the rostral or the tip of
the snout, shorter than the parietals; loreal long; one prae-
and two postoculars; temporals 2 + 2, 1 + 1 or 1 + 2; nine
(seven or eight) upper labials, fifth and sixth or fourth to sixth
entering the eye; five (four) lower labials in contact with the
anterior chin-shields; latter shorter than the posterior, which
are separated by one anterior and two posterior scales. Scales
in 15 rows, vertebrals about as large as the outer; ventrals
151—204; anal divided; subcaudals 103—174.

Olive or brown above; a yellow lateral stripe, bordered below
by a dark line between the outer scales and the ventrals; a
black stripe on each side of the head passing through the eye
and widening or broken up into spots, separated by bluish-
green bands on the nape; upper lip yellow. Lower surface
yellowish or greenish. Length of head and body 740 mm.;
tail 440 mm.

Nom. indig. Ular tambang (mal.); telampar (jav.); duwata
and ule lewora (Toradja-names).
Habitat: Nias; Mentawei Islands (Siberut!); Sumatra (Atjeh, Labuan, Medan!, Bindjey, Pangkalan Brandan!, Gambir!, Brastagei!, Langkat, Laut Tador, Assahan, Bedagei, Indragiri, Djambi!, Sidju, Tandjung Laut and Kertadjaja in Palembang, Gunung Suagei in Lampong district, Sidjundjung!, Solok!, Fort de Kock, Singkarah!, Silago, Indrapura, Kalung!, Padang
1500—3000 feet, Agam); Banka!; Riou!; Natuna Islands; Borneo (Bulangan river, Sandakan Bay, Baram river, Mt. Dulit, Sebruang Valley, Kuching, Sungai duri, Montrado, Singkawang, Sintang, Kapuas river, Kutei, Buntok, Balikpapan, Bandjermassin, Tandjong); Java (Batavia, Anjer, Depok, Darok, Bantam, Gadok, Buitenzorg!; Sukabumi!, Cheribon!, Pekalongan!, Salatiga!, Garum!, Ambarawa, Idju!, Kediri!, Ngawi, Surabaja!); Bali; Lombok; Sumbawa; Flores!; Alor; Timor; Rotti; Buton; Celebes (Manado, Gorontalo, Kema, Kandari); Sangir Islands (Siao); Ternate; Misol; Ceram; Ambon!; — Sulu Islands; Philippines; Penang; Malay Peninsula; Andamans; Nicobars; Siam; Burma; India.

A widely distributed and common snake, living on trees, among bushes, often near rice-fields; it feeds on lizards and frogs and is ovoviviparous.

var. striata Cohn.


Snout shorter and broader than in the preceding one; chin-shields short and broad, posterior pair separated by irregular scales in the posterior part. Keel of the ventral shields beginning immediately on the throat; ventrals 152—163; subcaudals 103—142.

Light brown above, with black oblique bars from the vertebral shields to the ventrals; no yellow lateral stripe; head darker, a black stripe on each side, passing through the eye; lips yellow. Lower surface grey with lighter ventral keels or sand-colour with brown keels; throat yellow. Length of head and body 525 mm.; tail 250 mm.

Habitat: Nias!; Sumatra; (Deli!, Sungai Putih near Serdang!, Assahan, Djambi!).

2. *Dendrophis calligaster* Günther.


*Dendrophis calligaster*, Boulenger, Cat. Sn. II 1894, p. 80 (s. syn.).


Maxillary teeth 20—26; eye not longer than its distance from the posterior border of the nostril. Rostral more broad
Fig. 35. *Dendrophis pictus striata* Cohn.
than deep, visible from above; internasals as long as or longer than the praefrontals; frontal as long as its distance from the rostral or the tip of the snout, usually shorter than the parietals; loreal much more long than deep; one prae- and two (three) postoculars; temporals \(2 + 2\) or \(1 + 2\); eight or nine upper labials, fourth and fifth or fifth and sixth entering the eye; five (four) lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales in 13 rows, the vertebrals as large as the outer; ventrals 174—211; anal divided; subcaudals 118—155.

Bronze, olive, green or black above, the scales often black-or yellow-edged; anterior dorsal region sometimes tinged with vermilion and the scales of the vertebral row yellow; a black streak on each side of the head, passing through the eye and often meeting its fellow on the rostral, extending to the neck, were it may break up into spots; upper lip yellow. Lower surface pale olive, sometimes speckled with dark, or yellow, greenish or blackish; throat yellow. Length of head and body 840 mm.; tail 430 mm.

Habitat: Ternate; Halmahera; Waigeu!; Batanta; Salawati; Timor Laut; Kei Islands; Aru Islands; New Guinea (Jobi, Mafoor, Sorong, Fak Fak, Mt. Arfak, Kapaor, Andai, Mansinam!, Amberbaki, Mt. Epa, Supiori, Tjintan Bay, Mawes, Matterer Bay, Sermowai river!, Humboldt Bay!, Mimika and Utakwa rivers 3000 feet, Lorentz river!, Fly river, Inawi, Hula, Bara Bara, Aleya, Fife Bay! (types of *Dendrelaphis schlenckeri* Ogilby), Dinawa, Stephansort, Bogadjim, Bongu, Erima, Berlinhafen, Simbang, Germaniabucht); Valise Island; Schouten Islands (Mysore). — d’Entrecasteaux and Louisiade Archipelago; Solomon Islands; Bismarck Archipelago; Islands of Torres Straits; Queensland.


Maxillary teeth 22; eye as long as its distance from the posterior border of the nostril. Rostral more broad than deep, visible from above; internasals about as long as the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal about twice as long
as deep; one prae- and two or three postoculars; temporals 1 + 2 + 2 or 2 + 2 + 2, the upper anterior small; eight upper labials, fourth and fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales in 13 rows, the vertebrales about as long as the outer; ventrals 159—163; anal divided; subcaudals 121—140.

Olive-brown above, with black oblique bands anteriorly; neck bluish; dark spots on the parietals, frontal and supraoculars; a dark stripe along the upper border of the posterior labials to the eye; loreal, nasal and anterior labials with dark posterior sutures; an indistinct dark longitudinal band behind the head and a short stripe behind each parietal. Lower surface olive-brown; bluish below the neck, yellowish on the throat. Length of head and body 580 mm.; tail 240 mm.

Type-specimen examined in the Leiden Museum.

Habitat: New Guinea (Mimika river, Lorentz river!).

4. Dendrophis punctulatus (Gray).

Leptophis punctulatus, Gray, King's Voy. Austral. II 1827, p. 432.

Dendrophis punctulatus, Boulenger, Cat. Sn. II 1894, p. 82.

Maxillary teeth 23—26; eye not longer than its distance from the posterior border of the nostril. Rostral one time and a half to one time and two thirds as broad as deep, visible from above; internasals as long as or a little longer than the praefrontals; frontal as long as or longer than its distance from the tip of the snout, shorter than the parietals; loreal more long than deep; one prae- and two postoculars; temporals 1 + 2, 2 + 2 or 1 + 1, anterior long; seven or eight (nine) upper labials, fourth and fifth (fifth and sixth) entering the eye; five lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales in 13 rows, vertebrales about as large as outer; ventrals 191—220; anal divided; subcaudals 118—144.

Olive or brown above, uniform or with black-edged scales; some scales with yellowish outer border; upper lip yellow. Lower surface olive or brown with yellowish keels; throat and anterior ventrals yellow; the posterior ventrals sometimes marbled with black or black in the middle and the subcaudals black with yellow keels. Length of head and body 1200 mm.; tail 440 mm.

5. *Dendrophis formosus* Boie.

*Dendrophis formosa*, Boie, Isis 1827, p. 542.
*Dendrophis formosus*, Boulenger, Cat. Sn. II 1894, p. 84.

Maxillary teeth 28—31; eye large, as long as its distance from the rostral or the anterior border of the nostril. Rostral more broad than deep, visible from above; internasals longer than the praefrontals; frontal as long as its distance from the tip of the snout, as long as the parietals; loreal long; one prea- and two to four postoculars; temporals 2 + 2; nine upper labials, fifth and sixth, fourth to sixth or third to fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales in 15 rows, vertebrals larger than the outer, ventrals 174—205; anal divided; subcaudals 132—158.

Olive, bronze or yellowish-brown above, with black-edged scales and red and green tints; a black stripe on each side of the head, passing through the eye, widest on the nape; neck red-brown; sometimes two black lines along each side of the body posteriorly; upper lip greenish-yellow. Lower surface pale green. Length of head and body 940 mm.; tail 480 mm.

Habitat: Sumatra (Labuan, Deli!, Singkarah!, Padang, Indrapura, Tandjong); Borneo (Sandakan Bay, Baram, Kapuas river, Kuching, Tandjong); Java (Batavia, Buitenzorg!, Willis Mts. 5000 feet). — Singapore; Penang; Malay Peninsula; Siam.


*Dendrophis gastrostictus*, Boulenger, Cat. Sn. II 1894, p. 86, pl. IV, fig. 3.

Maxillary teeth 33; eye very large, as long as its distance from the anterior border of the nostril. Rostral more broad than deep, just visible from above; internasals as long as the praefrontals; frontal as long as its distance from the tip of the snout, much shorter than the parietals; loreal more long than deep; one prea- and three postoculars; temporals 2 + 2; eight upper labials, fourth and fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales in 13 rows, vertebrals nearly as large as outer; ventrals 162; anal divided; subcaudals 148.
Bronze above; head, nape and tail almost black; upper lip yellow; a black line passing through the eye. Lower surface yellowish, with numerous black dots and spots; throat yellow. Length of head and body 700 mm.; tail 420 mm.

Type-specimen examined in the British Museum.

Habitat: N. W. New Guinea!.


*Dendrophis lineolatus*, Boulenger, Cat. Sn. II 1894, p. 85 (s. syn.).

Maxillary teeth 27—32; eye very large, as large as its distance from the centre or the anterior border of the nostril. Rostral more broad than deep, just visible from above; internasals as long as or longer than the prefrontals; frontal as long as its distance from the tip of the snout, as long as or shorter than the parietals; loreal more long than deep; one pre- and two postoculars; temporals 2 + 2, 1 + 2 or 1 + 1; eight or nine upper labials, fourth and fifth or fifth and sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales in 13 rows, vertebrals as large as outer; ventrals 172—203; anal divided; subcaudals 131—159.

Olive above, with black-edged scales; some of the lateral scales with yellowish or white outer border; body often with black, oblique bars anteriorly; head dark; upper lip yellow. Lower surface greenish or greyish-olive with yellow keels; throat and neck below yellow; a black streak along the middle of the tail. Length of head and body 1250 mm.; tail 570 mm.

Habitat: Aru Islands; Misol; Waigeu!; New Guinea (Jobi, Mafoor, Passim, Haas, Amberbaki, Mt. Karon, lake Sentani!, Koimé river!, Humboldt Bay!, Tana, Kaiserin-Augusta river, Mimika and Setekwa rivers, Lorentz river, Merauke, Fly river, Haveri, Bara Bara, Aleya, Astrolabe Bay); Schouten Islands (Mysore). — Pelew Islands; Bismarck Archipelago; Ferguson & Woodlark Islands.

var. elegans D. Ogilby.


Indo-australian Reptiles II.

Differs from the preceding one in having squarely cut off parietals; head black above; body olive-brown with black spots, and black oblique bars anteriorly.

Misol; New Guinea (Mt. Arfak, Koimé river!, Humboldt Bay!, Lorentz river).

8. Dendrophis meeki Boulenger.


Maxillary teeth 32 or 33; eye very large, as long as its distance from the centre or the anterior border of the nostril. Rostral almost twice as long as the praefrontals; frontal as long as its distance from the tip of the snout, much shorter than the parietals; loreal more long than deep; one praec- and two postoculars; temporals 2 + 2 or 3; eight or nine upper labials, fourth and fifth or fourth to sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 13 rows, vertebrals about as large as outer; ventrals 168—179; anal divided; subcaudals 137—147.

Dark olive above; upper lip white, bordered above by a black line passing through the eye. Lower surface pale olive, freckled with dark. Length of head and body 740 mm.; tail 420 mm.

Type-specimens examined in the British Museum.


Maxillary teeth 28; eye large, as long as its distance from the anterior border of the nostril. Rostral more broad than deep, visible from above; internasals as long as the praefrontals; frontal much longer than its distance from the tip of the snout, about one time and a half as long as internasals and praefrontals together, shorter than the parietals; loreal more long than deep; one praec- and two postoculars; temporals 2 + 2 + 2 or 1 + 2 + 2; eight upper labials, fourth and fifth entering the eye; five lower labials in contact with the anterior chin-
shields; latter shorter than the posterior. Scales in 13 rows, vertebrals smaller than the outer; ventrals 176—182; anal divided; subcaudals 160—168.

Olive-green above; head and neck darker; labials yellowish-white; a dark band behind the eye on the upper labials. Lower surface light olive-green with irregular smaller and larger spots; throat yellowish. Length of head and body 460 mm.; tail 240 mm.

Type-specimens examined in the Leiden Museum.

Habitat: New Guinea (Lorentz river!).

12. Dendrelaphis Boulenger,

(Boulenger, Fauna Ind. Rept. p. 339, 1890).

Head long, distinct from neck; eye large; pupil round. Maxillary teeth 18—23, anterior maxillary and mandibular teeth longest. Body long, compressed, covered with smooth scales with pits, in 13 or 15 rows, disposed obliquely, the vertebral row not or a little enlarged; ventrals with a lateral keel and notch. Tail long; subcaudals in two rows, keeled and notched like the ventrals.

Distribution. India; Ceylon; Burma; Malay Peninsula to New Guinea.

Key to the Indo-Australian species.

A. Scales in 15 rows. . . . . . . . . . . . . . . . . . . . . . . . 1. D. inornatus p. 67.
B. Scales in 13 rows.

1. Eye longer than its distance from the nostril. 2. D. candolineatus p. 68.

II. Eye as long as its distance from the nostril.

1. Ventrals 167—182; black lines along the body and tail; nine upper labials . . . . . 3. D. terrificus p. 69.
2. Ventrals 185—190; no black lines along the body and tail; eight upper labials . . . . . 4. D. papuensis p. 70.
3. Ventrals 185—193; no black lines along the body and tail; nine upper labials . . . . . 5. D. modestus p. 70.

1. Dendrelaphis inornatus Boulenger.


Eye as long as or shorter than its distance from the nostril. Rostral more broad than deep, visible from above; internasals as long as the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal
long; one prae- and two postoculars; temporals 2 + 2; nine or ten upper labials, fifth and sixth or fourth to sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales in 15 rows, vertebrals enlarged; ventrals 191—199; anal divided; subcaudals 132—138.

Pale olive-brown above, some of the scales edged with white on the outer side; outer row of scales pale olive or greyish; a black streak on each side of the head, passing through the eye; upper lip and praecocular yellow. Lower surface greenish-grey or yellow, the outer ends of the shields pale olive or greyish. Length of head and body 820 mm.; tail 380 mm.

Type-specimens examined in the British Museum.

Habitat: Sumba; Savu!, Samao!.

2. Dendrelaphis caudolineatus (Gray).

*Haactulla caudolineata*, Gray, Ill. Ind. Zool. II 1834, pl. LXXXI.
*Dendrelaphis caudolineatus*, Boulenger, Cat. Sn. II 1894, p. 89 (s. syn.).

Eye longer than its distance from the nostril. Rostral more broad than deep, visible from above; internasals as long as or shorter than the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal long; one prae- and two postoculars; temporals 2 + 2; nine upper labials, fifth and sixth (fourth to sixth) entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 13 rows; ventrals 171—189; anal divided; subcaudals 97—118.

Brownish or greenish-yellow above, with black longitudinal lines, formed by the edges of the scales; a yellow lateral streak between two black bands, the lower band on the outer ends of the ventrals; lips yellow. Lower surface yellow; a black median line along the tail. Length of head and body 1140 mm.; tail 380 mm.

Nom. indig. Ular bandèra (Borneo).

Habitat: Pulu Babi; Nias!; Mentawei Islands (Sipora); Sumatra (Medan!, Serdang!, Stabat, Bindjey, Djambi!, Singkarah!, Silago, Padang! 1500—3000 feet); Riou!; Natuna Islands; Borneo (Sandakan Bay, Baram, Kuching, Matang, Simanggang, Limbang, Oya, Kapuas river, Buntok, Pontianak, Muara Djawa!,
Balikpapan); Java. — Malay Peninsula; Siam; Penang; Singapore; S. India; Philippines.

Fig. 36. *Dendrelaphis caudolineatus* (Gray). \( \times \frac{1}{2} \). Side view of head.


*Dendrelaphis terrificus*, Boulenger, Cat. Sn. II 1894, p. 90 (s. syn.).

Eye as long as its distance from the nostril. Rostral more broad than deep, visible from above; internasals as long as or shorter than the praefrontals; frontal as long as its distance
from the rostral, shorter than the parietals; loreal long; one prae- and two postoculars; temporals $2 + 2$; nine upper labials, fifth and sixth or fourth to sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 13 rows; ventrals 167—182; anal divided; subcaudals 92—113.

Olive above, some of the scales black-edged or with white outer border; a black stripe on each side of the head and neck, passing through the eye, sometimes continued along the body and tail. Lower surface pale yellowish-green; a black line along the outer edge of the shields; a black median line along the tail. Length of head and body 750 mm.; tail 300 mm.

Habitat: Celebes (Gorontalo, Manado!, Minahassa). — Philippines.

4. **Dendrelaphis papuensis** Boulenger.


Eye as long as its distance from the nostril. Rostral more broad than deep, visible from above; internasals as long as the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal long; one prae- and two postoculars; temporals $2 + 2$; eight upper labials, fourth and fifth entering the eye; five or six lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 13 rows; ventrals 185—190; anal divided; subcaudals 119—126.

Olive-brown above, head and neck blackish; a black streak on each side of the head and neck, passing through the eye; upper lip white; vertebral scales on anterior part of body lighter, edged with whitish in front. Lower surface pale olive. Length of head and body 740 mm.; tail 310 mm.

Type-specimens examined in the British Museum.

Habitat: Trobriand Islands!.

5. **Dendrelaphis modestus** Boulenger.

*Dendrelaphis modestus*, Boulenger, Cat. Sn. II 1894, p. 91.

Eye as long as its distance from the nostril. Rostral more broad than deep, visible from above; internasals as long as the praefrontals; frontal as long as its distance from the rostral
or the tip of the snout, shorter than the parietals; loreal long; one prae- and two postoculars; temporals $2 + 2$ or $1 + 2$; nine upper labials, fifth and sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 13 rows; ventrals $185 - 193$; anal divided; subcaudals $114 - 121$.

Olive above, with black-edged scales; an indistinct dark streak on each side of the head, passing through the eye; upper lip yellow. Lower surface pale green, the posterior ventrals and the subcaudals margined with black; head yellow below. Length of head and body $805$ mm.; tail $315$ mm.

Type-specimens examined in the British Museum.

Habitat: Ternate!; Halmahera!; Batjan.


Head long, distinct from neck; eye large; pupil round. Maxillary teeth $20 - 33$, increasing in size posteriorly; mandibular teeth about equal. Body long, slightly compressed, covered with smooth or keeled scales with pits, in $12, 14, 16$ or $18$ rows; ventrals rounded. Tail long; subcaudals in two rows.

Distribution. S. E. Asia.

**Key to the Indo-Australian species.**

*Zaocys tornieri* Werner.

Rostral twice as broad as deep; internasals as long as the praefrontals; frontal as long as its distance from the tip of the snout, a little shorter than the parietals; loreal more long than deep; no subocular; two postoculars; temporals $1 + 1$; nine upper labials, fifth and sixth entering the eye. Scales in 12 rows, two middle rows strongly keeled as far as the base of the tail; ventrals $146$; anal divided; subcaudals $131$.

Brown above; sides of head yellowish. Lower surface greenish;
a blackish median line along the lower side of the tail. Length of head and body 720 mm.; tail 410 mm. (Not seen by me).

**Habitat:** Sumatra.

2. *Zaocys fuscus* (Günther).

*Coryphodon fuscus*, Günther, Cat. 1858, p. 112.
*Zaocys fuscus*, Boulenger, Cat. Sn. I 1893, p. 378, pl. XXVII, fig. 2.

Rostral more broad than deep, visible from above; internasals shorter than the prefrontals; frontal as long as its distance from the rostral or the tip of the snout, shorter than the parietals; three loreals; one preocular; one or two small suboculars; two postoculars; temporals 2 + 2; nine upper labials, fifth and sixth (fourth and fifth) entering the eye; five lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales in 16 rows, smooth; ventrals 183—198; anal divided; subcaudals 160—179.

Olive or olive-brown above, sometimes with a red, black-edged vertebral line and dark oblique bars on the posterior part of the body; a black lateral band posteriorly, covering the outer ends of the ventrals and subcaudals. Lower surface pale yellow. Length of head and body 1900 mm.; tail 1000 mm.
Habitat: Nias!; Sumatra (Labuan, Deli!, Langkat, Lebong, donok!); Banka!; Natuna Islands; Borneo (Mt. Mulu 2000 feet, Kuching, Sibu, Buntok, Balikpapan). — Penang; Malay Peninsula.

3. Zaocys carinatus (Günther).

Coryphodon carinatus, part., Günther, Cat. 1858, p. 112.
Zaocys carinatus, Boulenger, Cat. Sn. I 1893, p. 377, pl. XXVII, fig. 1.

Rostral more broad than deep, visible from above; internasals shorter than the prefrontals; frontal as long as its distance from the rostral, shorter than the parietals; two or three loreals; one preocular; a subocular; two postoculars; temporals $2 + 2$; nine upper labials, fifth and sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales in 16 or 18 rows, the two or four median rows keeled; ventrals 208—215; anal divided; subcaudals 110—118.

Olive-brown or blackish in the anterior part, with yellow spots or irregular transverse bands, pale brown or yellowish with a black network posteriorly. Lower surface yellowish, black and yellow posteriorly. Length of head and body 2250 mm.; tail 750 mm.

Type-specimen examined in the British Museum.

Habitat: Sumatra (Labuan in Deli, Gunung Sugei in Lampong district); Borneo! (Kuching, Sebruang Valley); Java (Depok). — Singapore; Malay Peninsula.


Head generally distinct from neck; eye moderate or large; pupil round. Maxillary teeth 18—40, continuous, posterior longest; mandibular teeth about equal. Body long, round, covered with smooth or keeled scales, usually with pits, in 15—33 rows; ventrals rounded. Tail long; subcaudals in two rows.

Distribution. Europe; Asia; Africa; N. Australia; N. and C. America.

The snakes of this genus live in the neighbourhood of water, feeding on frogs and fish. Oviparous, laying 10—40 eggs.
Key to the Indo-Australian species.

A. Maxillary teeth gradually enlarged posteriorly.
  I. Internasals much narrowed in front; nostrils directed upwards and outwards; scales in 19 rows ................................. 1. T. piscator p. 75.
  II. Internasals broadly truncate in front; nostrils lateral.  
      † Upper labials 8 usually.  
      × Subcaudals less than 60.
        1. Scales strongly keeled; three or four postoculars. .............................. 2. T. picturatus p. 76.
        2. Scales feebly keeled; two postoculars. 3. T. truncatus p. 77.
        3. Scales feebly keeled; three postoculars.
          aa. Internasals shorter than praefrontals; frontal longer than its distance from the tip of the snout.
          bb. Internasals as long as praefrontals; frontal as long as its distance from the tip of the snout . . . . . .
      ×× Subcaudals usually more than 60.
        1. Ventral 137—141; subcaudals 65—75; 1 prae- and 3 postoculars. 6. T. sarasinorum p. 79.
        2. Ventral 137—170; subcaudals 51—110; 2 prae- and 3 postoculars. 7. T. mairi p. 79.
        3. Ventral 164; subcaudals 76; 2 prae- and 3 postoculars; tail with longitudinal dark bands . . . . . . .
        4. Ventral 162—165; subcaudals 72; 2 prae- and 3 postoculars; posterior part of body with dark longitudinal lines. 8. T. montanus p. 80.
      †† Upper labials 9.
        aa. Ventral 162; belly white, with 6 longitudinal rows of black dots . . . . . . . 10. T. punctiventris p. 81.
        bb. Ventral 172—180; belly white anteriorly, speckled and powdered with blackish in the middle, black posteriorly. . . . . . . . . . . . . . 11. T. halmahericus p. 82.
    b. Scales in 17 rows.
      1. Three labials entering the eye; ventrals 141—158; subcaudals 50—85 . . . . . . . 12. T. doriae p. 82.
2. Two labials entering the eye; ventrals 182—196; subcaudals 99—111. 13. *T. hypomelas* p. 83.
c. Scales in 19 rows.
2. Two anterior temporals.
† Scales of outer row smooth or feebly keeled; frontal one time and a half to one time and three fourths as long as broad. 15. *T. trianguligerus* p. 84.
†† Scales all strongly keeled; frontal one time and one third as long as broad. 16. *T. petersi* p. 85.

B. Two or three last maxillary teeth abruptly enlarged.
I. Scales in 17 rows; three labials entering the eye. 17. *T. saravacensis* p. 85.
II. Scales in 21 rows. 18. *T. chrysargoides* p. 86.
III. Scales in 19 rows.
a. Two labials entering the eye; anal entire. 19. *T. flavifrons* p. 87.
b. Three labials entering the eye; anal divided.
1. A single anterior temporal.
   aa. Third to fifth labials entering the eye. 20. *T. stolatus* p. 87.
2. Two anterior temporals.
   † Internasals shorter than praefrontals;
   scales of outer row smooth. 22. *T. subminiatus* p. 89.
   †† Internasals as long as praefrontals; all the scales strongly keeled.

I. *Tropidonotus piscator* (Schn.).

*Tropidonotus piscator*, Boulenger, Cat. Sn. I 1893, p. 230 (s. syn.).

Eye shorter than its distance from the nostril; latter turned upwards; rostral visible from above; internasals narrowed in front, as long as the praefrontals; frontal longer than its distance from the end of the snout, as long as the parietals or shorter; loreal about as long as deep; one prae- and three sometimes four postoculars; temporals 2 + 2 or 2 + 3 (1 + 2); nine upper labials, fourth or fourth and fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales keeled, of two or three outer rows
smooth, in 19 rows (rarely 17); ventrals 125—150; anal divided; subcaudals 65—90.

Yellowish or olive-brown above, usually with black spots in 5 series, the spots sometimes very large or with four black stripes on the nape, five on the body; sometimes scarlet markings on the sides; a black streak below the eye and another behind the eye; sometimes two small black-edged yellow spots on the parietals. Lower surface yellow or whitish, the shields often edged with black. Length of head and body 900 mm.; tail 300 mm.

Habitat: Sumatra (in Palembang district!); Java (Batavia, Buitenzorg!, Bantam, Depok, Gadok, Cheribon!, Pekalongan!, Garum!, Kediri!); Borneo (Landak!); Celebes (Manado, Macassar!). — Malay Peninsula; Penang; Singapore; Andamans; Burma; India; S. China; Siam.

2. Tropidonotus picturatus Schlegel.


Eye as long as its distance from the centre of the nostril; rostral visible from above; internasals about as long as the praefrontals; frontal longer than its distance from the tip of the
snout, shorter than the parietals; loreal as deep as long; two or three prae- and three or four postoculars; temporals \(1 + 1, 1 + 2\) or \(2 + 3\); eight (nine) upper labials, fourth and fifth (fifth and sixth) entering the eye, sixth largest; four lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales strongly keeled, in 15 rows; ventrals 123—137; anal divided; subcaudals 40—61.

Uniform brown above, each scale with two small yellow spots; head-shields with longitudinal black spots; sides of head yellow, with a black bar below the eye, continued on the throat, meeting its fellow in the middle and forming a short longitudinal stripe or broken up into spots; another black stripe from the eye to the angle of the mouth and continued along each side of the neck, forming a broad transverse band across the nape. Lower surface yellow, uniform or brown-spotted or with dark spots on the outer ends of the ventrals. Length of head and body 500 mm.; tail 120 mm.

Habitat: 1) Waigeu; New Guinea (Sorong, Mt. Epa, Lobo Bay!, Triton Bay, Andai, Mansinam, Amberbaki, Mt. Arfak, Rubi, Passim, Dorei, Tana, Jobi, Sepik river, Bungu, Erima, Berlinhafen, Mimika, Setekwa and Lorentz! rivers, Fly river, Moroka 2300 feet, Haveri, Fife Bay, Huon Gulf); Schouten Islands (Mysore); Aru Islands. — Ferguson Island; N. Australia.

3. Tropidonotus truncatus (Peters).


Tropidonotus truncatus, Boulenger, Cat. Sn. 1 1893, p. 216.

Snout prominent; eye moderate; rostral broad; internasals almost quadrangular, as long as the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; two prae- and two postoculars; temporals \(1 + 2\); eight upper labials, third to fifth entering the eye; four lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales keeled, in 15 rows; ventrals 142—149; anal divided; subcaudals 43.

Brown or black above; head reddish-brown with a light, black-edged streak, powdered with brown, on the upper lip.

1) Part of the Tropidonotus, recorded from New Guinea as T. picturatus possibly belong to T. mairi Gray and T. doriae Blgr., which are separated from T. picturatus Schleg. by Boulenger in 1897.
and the side of the neck. Lower surface black with whitish dots or pale brown, dotted with black. Length of head and body 425 mm.; tail 75 mm.

Habitat: Ternate; Halmahera; Batjan.


Snout truncate; eye moderate; rostral more vertical than in the preceding one; internasals quadrangular, shorter than the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; one praef. and three postoculars; temporals 1 + 2; eight upper labials, third to fifth entering the eye; four lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales keeled, smooth anteriorly, in 15 rows; ventrals 125—142; anal divided; subcaudals 45—53.

Brown above, with or without three longitudinal blackish-brown bands, separated by yellow streaks; a black collar, edged posteriorly with a yellow band, anteriorly with two yellow spots; neck sometimes with light transverse bands; lips white, powdered with black. Lower surface yellow, uniform or dotted with black. Length of head and body 360 mm.; tail 90 mm.

Habitat: Celebes! (Kandari, Buol 2000 feet).

5. Tropidonotus novae-guineae Lidth.


Eye as large as its distance from the centre of the nostril. Rostral about twice as broad as deep, visible from above; internasals as long as the praefrontals, broadly truncate anteriorly; frontal broad, as long as its distance from the tip of the snout, shorter than the parietals; loreal more deep than long; two praef. and three or four postoculars; temporals 2 + 2, the lower anterior not in contact with the postocular; eight upper labials, fourth and fifth entering the eye; four or five lower labials in contact with the anterior chin-shields. Scales in 15 rows, keeled; ventrals 137; anal divided; subcaudals 52.

Grey above, with black spots arranged in transverse rows; behind the head and near the tail these spots form trans-
verse bands; tail without spots; upper labials grey with dark sutures. Lower surface light; tail with a series of dark spots in the middle.

Type-specimen examined in the Leiden Museum.

Habitat: S. New Guinea (Lorentz river!).


Snout prominent, truncate; eye moderate, rostral more broad than deep, not visible from above; internasals as long as the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep; one praee- and three postoculars; temporals $1 + 2$ or $1 + 3$; eight upper labials, third to fifth entering the eye; four lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 15 rows, strongly keeled; ventrals 137—141; anal divided, subcaudals 65—75.

Reddish-brown anteriorly, olive or dark grey behind, with blackish transverse bands; a dark nuchal blotch in connection with a dark streak on each side of the head along the upper border of the labials, which are whitish and speckled with brown. Lower surface yellow, sides reddish, dotted with black; posterior ventrals and subcaudals in the male grey. Length of head and body 380 mm.; tail 150 mm.

One of the type-specimens examined in the British Museum.

Habitat: Celebes (Loka on Bonthain Peak 3500 feet!).


Eye larger than in *Tr. picturatus*, longer than its distance from the anterior border of the nostril; rostral visible from above; internasals slightly shorter than the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; two (rarely one) praee- and three (rarely two or four) postoculars; temporals $1 + 1$ or $1 + 2$ ($2 + 2$); eight (nine) upper labials, fourth and fifth or third to fifth (fourth to sixth) entering the eye; five (four) lower labials in
contact with the anterior chin-shields; latter shorter than the posterior. Scales strongly keeled, in 15 rows; ventrals 137—170; anal divided; subcaudals 51—110.

Olive, brown or black above, with small black spots or with transverse bars anteriorly; a black band behind the head; a black line between temporals and labials; upper lip white with black sutures. Lower surface yellowish or coral-red; ventrals and subcaudals sometimes edged with black. Length of head and body 684 mm.; tail 250 mm.

Habitat: New Guinea (Haas, Mts. Karon, Fak Fak, Pokenbo, Jamur river!, lake Sentani!, Begowre and Betêwi rivers!, Humboldt Bay!, Kaiserin-Augusta river!, Mimika river, Utakwa river 2100—2500 feet, Lorentz river!, Etna Bay, Merauke!, Moroka 2300 feet, Haveri, Borepata, Dinawa, Madew); Valise Island. — Ferguson and Trobriand Islands; Queensland.

8. Tropidonotus montanus Lidth.


Eye as large as its distance from the centre of the nostril; rostral more broad than deep, visible from above; internasals shorter than the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal more deep than long; two prae- and three postoculars; temporals 1 + 2, the anterior large; eight upper labials, fourth and fifth entering the eye; four lower labials in contact with the anterior chin-shields. Scales in 15 rows, keeled; ventrals 164; anal divided; subcaudals 76.

Reddish-brown above, with dark markings on the middle; on the tail and just before the tail the spots fuse into longitudinal bands; head grey; upper labials light, with dark sutures. Lower surface light with dark transverse streaks on each side of the ventrals; subcaudals with dark sutures. Length of head and body 610 mm.; tail 190 mm.

Type-specimen examined in the Leiden Museum.

Habitat: S. New Guinea (near Lorentz river 1360 M.!).


*Tropidonotus picturatus* var. *elongatus* Jan, Elenco d. Ofidi 1863, p. 72; Iconogr. gén. 27 1868, pl. IV, fig. 2.


Eye large, as long as its distance from the anterior border
of the nostril; rostral just visible from above; internasals broadly truncate anteriorly, as long as the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal more deep than long; two prae- and three postoculars; temporals $1 + 2$; eight upper labials, fourth and fifth or third to fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales strongly keeled, in 15 rows; ventrals 162—165; anal divided; subcaudals 72.

Blackish-brown above, with yellow transverse bands on the anterior part of the body; posterior part of body with dark longitudinal lines, the vertebral line broadest; head and neck blackish; upper lip yellow, bordered above by a dark brown line; fourth, fifth and sixth labials with a dark brown spot near the border of the mouth; outer row of scales along the neck yellowish. Lower surface yellowish anteriorly, ventrals with blackish outer ends and black spots, posteriorly blackish with yellowish outer borders. Length of head and body 621 mm.; tail 219 mm.

Habitat: Ceram!.


Eye large, as large as its distance from the anterior border of the nostril; rostral just visible from above; internasals broadly truncate anteriorly, their suture as long as the suture between the praefrontals; frontal slightly longer than its distance from the tip of the snout, much shorter than the parietals; loreal more deep than long; two prae- and three postoculars; temporals $2 + 3$; nine upper labials, fourth to sixth entering the eye, seventh largest; five lower labials in contact with the anterior chin-shields; latter about half as large as the posterior. Scales in 15 rows, all strongly keeled; ventrals 162; anal divided; subcaudals 74.

Dark olive-grey above, with indistinct black spots or light network, the keels, especially on the sides of the tail lighter; two white, black-edged spots on the parietal region; lips white, the sutures between the four anterior labials black. Lower surface
white, posteriorly grey, with about 6 longitudinal rows of black
dots, forming three black lines on the lower part of the tail.
Length of head and body 345 mm.; tail 116 mm. (After BÖTTGER; not seen by me).

Habitat: Halmahera.


Eye as large as its distance from the anterior border of the
nostril; rostral just visible from above; nostril large; internasals broadly truncate anteriorly, as long as or longer than
the praefrontals; frontal as long as its distance from the tip
of the snout, shorter than the parietals; loreal more deep than
long; one or two praec- and three postoculars; temporals 2 + 3;
nine upper labials, fourth to sixth entering the eye; five lower
labials in contact with the anterior chin-shields; latter much
shorter than the posterior. Scales in 15 rows, all strongly
keeled; ventrals 172—180; anal divided; subcaudals 57—107 + ?.

Reddish-white anteriorly, with black spots, or black with
reddish-white spots near the sides or with white half-rings, nar-
rower than the black interspaces; middle part of the body usually
black, with a row of round, reddish-white spots on each side,
covering about three scales; head black above; upper labials
black above, white below; tail black above. Lower parts white
anteriorly, black-spotted and powdered in the middle and
brownish-black to deep black posteriorly. Length of head and
body 890 mm.; tail 404 mm.

One of the type-specimens examined in the British Museum.
Nom. indig. Ular darabang = flying snake.

Habitat: Halmahera!; Batjan.


Eye large; rostral just visible from above; internasals broadly
truncate anteriorly, as long as the praefrontals; frontal longer
than its distance from the tip of the snout, shorter than the
parietals; loreal more deep than long; two praec- and three
postoculars; temporals 2 + 2 or 1 + 2 or 1 + 1; eight (some-
times nine) upper labials, third to fifth or fourth to sixth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 17 rows, strongly keeled, those of the outer row feebly keeled; ventrals 141—158; anal divided; subcaudals 50—85.

Yellow, reddish or grey above, with dark or black transverse bars or alternating spots; upper labials yellow with black sutures. Lower surface yellowish, uniform or with dark dots. Length of head and body 820 mm.; tail 260 mm.

Habitat: Aru Islands; New Guinea (Mimika and Lorentz! rivers, Sekanto river!, lake Sentani!, Begowré and Sangké rivers!, Humboldt Bay!, Mosso, Haveri, Moroka 2300 feet, Dinawa).


*Tropidonotus hypomelas*, Boulenger, Cat. Sn. 1 1893, p. 264.

Eye very large; rostral broad, visible from above; internasals truncate anteriorly, as long as the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal as long as deep; two prae- and three postoculars; temporals 2 + 3; nine upper labials, fifth and sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Body slender; scales in 17 rows, all keeled; ventrals 182—196; anal divided; subcaudals 99—111.

Olive-brown above, with small black spots; a row of lighter spots along each side on the posterior part of the body; upper lip white with black sutures. Lower surface white in front, black posteriorly, with a median series of black spots. Length of head and body 690 mm.; tail 270 mm.

Type-specimen examined in the British Museum.


*Tropidonotus conspicillatus*, Boulenger, Cat. Sn. 1 1893, p. 222.

Eye moderate; nasal entire or partly divided; rostral scarcely visible from above; internasals broadly truncate anteriorly,
about as long as the praefrontals; frontal a little longer than its distance from the tip of the snout, shorter than the parietals; loreal more deep than long; one pra- and three postoculars; temporals \(1 + 2\) or \(1 + 3\); eight upper labials, third to fifth entering the eye; five lower labials in contact with the ante-
rior chin-shields; latter shorter than the posterior. Scales in 19 rows, all keeled or those of the outer row smooth; ventrals 138—152; anal divided; subcaudals 40—54.

Brown or reddish-brown above, with a dark network and two longitudinal series of yellow spots or transverse lines; head with small yellow, dark-edged spots; a yellow, black-edged streak on the upper lip, another from the eye to the corner of the mouth; nape dark, with two interrupted yellow trans-
verse streaks. Lower surface yellow, uniform or dotted with brown. Length of head and body 325 mm.; tail 75 mm.

Habitat: Sumatra (Deli!); Singkep Island; Natuna Islands; Borneo (Sandakan Bay!, Baram river, Mt. Dulit, Kuching, Sarawak, Simanggang, Matang!, Tampassuk river, Tandjong). — Malay Peninsula.


*Tropidonotus trianguligerus*, Boie, Isis 1827, p. 535.
*Tropidonotus trianguligerus*, Boulenger, Cat. Sn. I 1893, p. 224 (s. syn.).

Eye moderate; rostral scarcely visible from above; internasals trapezoid, as long as or longer than the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or more deep; one (2) pra- and three or four postoculars; temporals \(2 + 2\) or \(2 + 3\); nine upper labials, fourth to sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 19 rows, strongly keeled, those of the outer row feebly keeled or smooth; ventrals 134—150; anal divided; subcaudals 67—105.

Dark olive above, with small black spots; a lateral series of large, triangular black spots, the points reaching the ventrals and sometimes forming bands across the belly, separated by red interspaces; on the posterior part of the body the spots are indistinct; upper labials yellow, with black sutures. Lower
surface yellow, uniform or the ventrals edged with black. Length of head and body 860 mm.; tail 340 mm.

_Habitat:_ Nias!; Mentawei Islands (Sipora); Sumatra (Labuan, Deli!); Brastagei!; Assahan, Raja Mts. Indragiri, Kertadja in Palembang, Gunung Suhei in Lampong district, Gunung Sahilan!, Taluk!, Ringgat!, Silago, Singkarah!, Kaju tanam!, Indrapura, Rau, Kalung!, Matur!, Baso!, Sungei Pati Bubur near Ajerbangis!, Padang 1500—3000 feet, Agam, Tandjong; Banka; Borneo (Sandakan Bay, Baram river, Kina Balu, Bongon, Sarawak, Kuching, Oya, Rejang river, Singkawang, Pontianak, Telang, Lihong Bahaja, Samarinda!); Java (Buitenzorg!, Depok, Preanger!, Gunung Ungaran!, Salatiga!, Ambarawa, Tengger Mts. 1200 M.); Celebes (Macassar 2000 feet); Sangir Islands (Siao); Ternate. — Malay Peninsula; Penang; Singapore; Burma.

16. _Tropidonotus petersi_ Boulenger.

_Tropidonotus petersi_, Boulenger, Cat. Sn. 1 1893, p. 225.

Eye moderate; rostral scarcely visible from above; internasals as long as the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal more deep than long; one praef- and three or four postoculars; temporals 2 + 3; nine upper labials, fourth to sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 19 rows, all strongly keeled; ventrals 140—150; anal divided; subcaudals 65—78.

Brown above, with small black spots, on each side a series of black spots; head dark olive, vermiculated with black; labials yellow, with black sutures. Lower surface yellow, the shields edged with black. Length of head and body 270 mm.; tail 100 mm.

_Habitat:_ Sumatra (Deli!); Borneo (Kuching, Saribas).

17. _Tropidonotus sarawacensis_ Günther.

_Tropidonotus sarawacensis_, Boulenger, Cat. Sn. 1 1893, p. 261.

Head short; eye large; rostral not or just visible from above; internasals as long as or slightly shorter than the praefrontals;
frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal more deep than long; one prae- and three postoculars; temporals $2 + 3$; eight upper labials, third to fifth entering the eye; five or six lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 17 rows, all strongly keeled; ventrals $136-154$; anal divided; subcaudals $52-89$.

Olive-brown above, with a series of dark transverse bars, two series of yellow spots or yellow stripes; or blackish above, with orange spots anteriorly; a series of black spots on each side; head vermiculated with black; labials yellow, with black sutures. Lower surface black and yellow, sometimes black predominating. Length of head and body 400 mm.; tail 160 mm.

Habitat: Borneo (Kina Balu!, Mt. Dulit, Matang!, Kuching, Penrissen Road).


*Tropidonotus callistus*, Boulenger, Cat. Sn. I 1893, p. 263.

Eye large; rostral more broad than deep, scarcely visible from above; internasals broadly truncate anteriorly, as long as the praefrontals; frontal as long as or longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or slightly more deep; one prae- and two to four postoculars; temporals $2 + 2$ or $2 + 3$; eight or nine upper labials, fourth to sixth, fourth and fifth or fifth and sixth entering the eye; five or six lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 21 rows, strongly keeled; ventrals $148-161$; anal divided; subcaudals $64-85$.

Dark olive above; upper lip yellow. Lower surface yellow, the shields edged with olive. Young specimens (*Tr. callistus*) with a white vertebral stripe with a scoloped edge anteriorly; a round white spot on each side behind the head, another on the occiput and a white band across the frontal, supraoculars and praecoculars; upper labials white with black sutures. Lower surface and outer row of scales white, with a black band.
along the outer ends of the ventrals. Length of head and body 545 mm.; tail 165 mm.

Habitat: Java; Celebes! (N. Celebes (type of Tr. callistus)!, Minahassa, Manado, Tomohon!, Bone Valley, Kema, Rurukan); Sangir Islands (Siao).

19. Tropidonotus flavifrons Boulenger.


Head short, eye moderate; rostral more broad than deep, scarcely visible from above; internasals broadly truncate anteriorly, half as large as the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep; one praefrontal and two or three postoculcuars; temporals 2 + 3; eight or nine upper labials, fourth and fifth or fifth and sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 19 rows, feebly keeled, those of the outer row smooth; ventrals 146—155; anal entire; subcaudals 87—102.

Olive above, with a dark network; two series of white spots along each side, parallel or alternating, the upper series on the sixth row of scales, the lower larger and on the border of the ventrals; on the snout and forehead a large yellow spot; labials with black sutures. Lower surface whitish with large black spots; lower side of the tail black, each subcaudal with a greyish spot. Length of head and body 361 mm.; tail 179 mm.

Habitat: Borneo (Kina Balu!, Sebruang Valley, Penrissen Hills in Sarawak).

20. Tropidonotus stolatus (L.).


_Tropidonotus stolatus_, Boulenger, Cat. Sn. I 1893, p. 253 (s. syn.).

Eye moderate; rostral just visible from above; internasals narrowed anteriorly, about as long as the praefrontals; frontal longer than its distance from the tip of the snout, as long as the parietals; loreal as long as deep or more deep; one praefrontal and three postoculars; temporals 1 + 1 or 1 + 2; eight upper labials, third to fifth entering the eye; five or six lower labials in contact with the anterior chin-shields; latter shorter than
the posterior. Scales in 19 rows, strongly keeled, those of the outer row smooth; ventrals 120—161; anal divided; subcaudals 50—89.

Greenish or brownish-olive above, spotted with black or with black transverse bars, interrupted by two yellow longitudinal bands; prae- and postoculars yellow. Lower surface white, usually with a black spot on each side of each ventral. Length of head and body 500 mm.; tail 180 mm.

Habitat: Borneo?!. — Singapore; Penang; Malay Peninsula; Nicobars; Siam; Burma; India; Ceylon; China; Philippines.

Note. This species seems to be an Indian form; a specimen, apparently captured in Borneo, is in the British Museum; another with the indication Arch. Ind. Dr. Bleeker in the Leiden Museum.

It feeds on frogs and lays a few eggs, about 10.


Coluber vittatus, Linné, Mus. Ad. Frid. 1754, p. 26, pl. XVIII, fig. 2.
Tropidonotus vittatus, Boulenger, Cat. Sn. I 1893, p. 255.

Eye moderate; rostral just visible from above; internasals narrowed in front, about as long as the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or more deep; one prae- and three postoculars; temporals 1 + 1 or 1 + 2; nine upper labials, fourth to sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 19 rows, strongly keeled, those of the outer row smooth; ventrals 140—149; anal divided; subcaudals 53—84.

Light brown above, with three black longitudinal bands, lateral broadest, bordered below by a white line; head and nape spotted or marked with black; lips white, with black sutures. Lower surface white, the shields edged with black, the dark part broadest on the sides. Length of head and body 410 mm.; tail 150 mm.

Nom. indig. Ular kisik (mal.).

Habitat: Sumatra (Pulu Weh!, Kertadjaja, Palembang); Banka!; Java (Gadok, Anjer, Batavia, Buitenzorg!, Preanger!, Depok, Darok, Bantam, Pekalongan!, Salatiga!, Ambarawa, Ngawi, Tengger Mts. 1200 M.); Celebes (Manado).
22. **Tropidonotus subminiatus** Schlegel.


Eye large; rostral just visible from above; internasals broadly truncate in front, shorter than the prefrontals; frontal as long as or longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or more deep; one prea- and three or four postoculars; temporals \(2 + 2\) or \(2 + 3\); eight upper labials, third to fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter slightly shorter than the posterior. Scales in 19 rows, strongly keeled, those of the outer row smooth; ventrals 132—175; anal divided; subcaudals 65—87.

Brown, grey or olive-green, uniform or with a black and yellow network; neck often reddish; sometimes a dorso-lateral series of light spots and a black oblique spot below the eye. Young specimens with a black transverse band, bordered with yellow behind on the nape. Lower surface yellow, usually with a black dot on each side of each ventral. Length of head and body 805 mm.; tail 255 mm.

Nom. indig. Ular pitjung or ular lempch (mal.).

Habitat: Java (Gadok, Anjer, Batavia!, Weltevreden!, Buitenzorg!, Sukabumi!, Semarang!, Salatiga!, Garum!, Kediri!, Surabaja, Pasuruan); S. E. Borneo!; Celebes (Manado); Ternate!. — Penang; Malay Peninsula; S. China; Burma; Assam; Siam; E. Himalayas.

Feeds on frogs and toads.

23. **Tropidonotus chrysargus** Schlegel.

*Tropidonotus chrysargus*, Schlegel, Phys. Serp. 1837, p. 312, pl. XII, fig. 6 & 7.
*Tropidonotus chrysargus*, Boulen ger, Cat. Sn. I 1893, p. 258 (s. syn.).

Eye large; rostral just visible from above; internasals broadly truncate in front, as long as the prefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal about as deep as long; one or two prea- and three postoculars; temporals \(2 + 2\) or \(2 + 3\); eight or nine upper labials, fourth to sixth or third to fifth entering the
Eye; five or six lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 19 rows, all strongly keeled; ventrals 140—176; anal divided; subcaudals 56—94.

Brown or olive-green above, usually with yellow spots or transverse bars on each side of the back; the skin between the scales sometimes red; upper labials yellow with black sutures, the yellow colour continued as an angular or crescentic band on the nape. Young specimens with black transverse bars or black-spotted. Lower surface yellow, sometimes black-dotted and with black spots along each side. Length of head and body 575 mm.; tail 191 mm.

Habitat: Simalur!; Nias!; Mentawei Islands (Sipora); Sumatra (Atjeh, Bindjey, Bringin!); Labuan, Battak Highlands 800—1000 M., Pagarkaja in Palembang, Kaju tanam!, Mt. Singalang, Kalung!, Fort de Kock!, Padang 1500—3000 feet, Agam); Java (Batavia, Mt. Salak, Sukabumi!, Tjibodas 1423 M!., Mt. Wilis 5000 feet, Wonosobo, Salatiga!, Tengger Mts. 1200 M., Prigan 1800—2300 feet); Flores!; Borneo! (Sandakan Bay, Kina Balu, Mt. Dulit, Sarawak, Kuching, Rejang river, Bandjermassin); Celebes!; Ternate 1). — Penang; Malay Peninsula; Siam; Burma; S. China; E. Himalayas; Palawan; Balabac.

24. Tropidonotus maculatus Edeling.

_Tropidonotus maculatus_, Boulenger, Cat. Sn. I 1893, p. 260 (s. syn.).

Eye very large; rostral scarcely visible from above; internasals trapezoid, as long as the prefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or more deep; one pre- and three postoculars; temporals 2 + 3; nine upper labials, fourth to sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 19 rows, all strongly keeled; ventrals 140—156; anal divided; subcaudals 95—117.

Olive above, with four longitudinal series of small, square, black spots and two of yellowish spots; upper labials yellow with black sutures. Lower surface yellow, the shields edged

with black. Length of head and body 540 mm.; tail 270 mm.

**Habitat:** Sumatra (Deli!, Lower Langkat, Siboga, Benakat in Palembang); Natuna Islands; Borneo! (Baram river, Kina Balu, Mt. Dulit, Kuching, Limbang, Sadong river, Mt. Mulu 1000 feet, Spitang river, Labuan). — Malay Peninsula.

### 15. *Macropisthodon* Boulenger.

*(Boulenger, Cat. Snakes I p. 265, 1893).*

Head distinct from neck; eye moderate or large; pupil round. Maxillary teeth 12—20, separated by an interspace from a pair of very large fangs; mandibular teeth about equal. Body stout, covered with strongly keeled scales, with pits, in 19—27 rows; ventrals rounded. Tail moderate; subcaudals in two rows.

**Distribution.** S. E. Asia.

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**Key to the Indo-Australian species.**

* A. Maxillary teeth 18 to 20 + 2; usually 8 upper labials:
  - black, or with black transverse bands ........... 1. *M. flaviceps* p. 91.
* B. Maxillary teeth 12 to 15 + 2; usually 7 upper labials:

1. *Macropisthodon flaviceps* (Dum. & Bibr.).


*Macropisthodon flaviceps*, Boulenger, Cat. Sn. I 1893, p. 266 (s. syn.).

Rostral just visible from above, twice as broad as deep; internasals shorter than the prefrontals; frontal as long as or slightly shorter than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or more deep; one praec- and three or four (rarely two or five) postoculars; temporals 2 + 2 or 2 + 3; eight (sometimes 7) upper labials, fourth and fifth (or third and fourth) entering the eye; five or six lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 19 rows, strongly keeled; ventrals 120—138; anal divided, subcaudals 49—60.

Black above; head yellowish-brown or olive; olive beneath with black transverse bands or entirely black. Young specimens with greyish or pale olive transverse bars, wider towards the sides and becoming indistinct in the adult; a broad orange band across the nape, separated from the head by a broad black band. Length of head and body 650 mm; tail 190 mm.
Habitat: Nias; Sumatra (Labuan, Medan!, Bedagei, Laut Tador in Upper Langkat, Indragiri, Gunung Sahilan!, Gunung Sugei in Lampong district); Borneo (Kuching, Sebruang Valley, Bandjermassin, Kutei, Samarinda!). — Malay Peninsula.

2. _Macropisthodon rhodomelas_ (Boie).

_Tropidonotus rhodomelas_, Boie, Isis 1827, p. 535.
_Macropisthodon rhodomelas_, Boulenger, Cat. Sn. 1 1893, p. 266.

Rostral scarcely visible from above, at least twice as broad as deep; internasals shorter than the praefrontals; frontal slightly longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or more deep;

![Figure 39. Macropisthodon rhodomelas (Boie) ×\(\times\frac{3}{4}\). Side view of head.](image)

one, sometimes two praecoculars; usually a small subocular and three or four postoculars; temporals 2 + 2, 2 + 3 or 3 + 3; seven (rarely 8) upper labials, third and fourth (or fourth and fifth) entering the eye; four or five lower labials in contact with the anterior chin-shields; latter about as long as or shorter than the posterior. Scales in 19 rows, strongly keeled; ventrals 124—138; anal divided; subcaudals 42—58.

Grey or reddish-brown above, with a dark vertebral stripe ending in a V-shaped bluish spot on the nape; lips, throat
and flanks pink; sometimes dark oblique lines on the anterior part of the body from the vertebral stripe running downwards and anteriorly. Lower surface yellow with small black spots along each side. Length of head and body 435 mm.; tail 85 mm.

Habitat: Sumatra (S. Atjeh, Deli!, Labuan, Langkat, Raja Mts., Indragiri, Kertadaja, Muara Rupit, Palembang, Gunung Sugei in Lampong district, Gunung Sahilan!, Taluk!, Tand-jong); Banka!; Borneo! (Mt. Dulit, Kuching, Sarawak, Matang, Limbang); Java! (Tjikao). — Singapore; Malay Peninsula; Siam.

The Raffles Museum, Singapore, possesses a specimen which is said to be from Macassar, Celebes.

This species sits up like a cobra when angry, flattening its neck.

*Macropisthodon plum bicolor* (Cant.) is doubtfully mentioned from Java in Boulenger’s Catalogue p. 268. No other indication of its occurrence in the Sunda Islands could be found, the species being an Indian and a Ceylonese form, so that the locality Java most probably is a mistake.


*(Günther, Rept. Brit. Ind. p. 250, 1864).*

Head distinct from neck; eye rather large; pupil round. Maxillary teeth 25—30, gradually increasing in size; anterior mandibular teeth largest. Body long, round, covered with smooth scales with pits, in 17 rows, the vertebral row more or less enlarged and six-sided; ventrals rounded. Tail long; subcaudals in two rows.

Distribution. S. E. Asia.

**Key to the Indo-Australian species.**

A. Subcaudals 140—179; brown above, with more or less distinct black transverse bands anteriorly. . . . 1. *X. hexagonotus* p. 93.

B. Subcaudals 134; body with 18 black-edged brown streaks, separated by cream-coloured interspaces. . . . 2. *X. ellipsifer* p. 95.

1. *Xenelaphis hexagonotus* (Cantor).

*Coluber hexagonotus*, Cantor, Cat. Mal. Rept. 1847, p. 74.

*Xenelaphis hexagonotus* Boulenger, Cat. Sn. II 1894, p. 8.

Rostrals more broad than deep, visible from above; internasals as long as or slightly longer than the praefrontals; frontal
as long as its distance from the tip of the snout, shorter than the parietals; loreal about as long as deep; one praecocular, a large subocular below it, wedged in between the third and fourth upper labials; two postoculares, with a large subocular below, between the eye and the fifth and sixth labials; sometimes a third subocular, separating the eye from the labials; temporals \(2 + 2\); eight upper labials, fourth entering the eye or separated from it; four or five lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales

\[\text{Fig. 40. Xenelaphis hexagonotus (Cant.) } \times 3/4. \text{ Side view of head.}\]

in 17 rows, the vertebral row a little enlarged; ventrals 185—198; anal divided; subcaudals 140—179.

Brown above, with black transverse bands on the anterior part of the body, becoming indistinct with age, so that the outer ends of the bands alone are visible; scales of the posterior part of the body with a black spot and black basal part. Lower surface yellowish; each ventral and subcaudal with a black spot on the outer end; subcaudals black-edged. Length of head and body 1050 mm.; tail 600 mm.

Habitat: Sumatra (Stabat near Bindjey, Medan!, Serdang!, Indragiri, Taluk!, Bunga Maas); Banka!; Borneo (Baram, Sebruang Valley, Rejang river, Lundu, Kuching); Java (Buitenorg). — Penang; Singapore; Malay Peninsula; Burma.
2. **Xenelaphis ellipsifer** Boulenger.


Rostral more broad than deep, visible from above; internasals about as long as the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal more long than deep; one praeocular, a large subocular below it, wedged in between the third and fourth upper labials; two postoculars, a long subocular below, between the eye and the fifth and sixth labials; temporals 2 + 2; eight upper labials, fourth entering the eye or separated from it; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 17 rows, vertebral row not distinctly enlarged; ventrals 186; anal divided; subcaudals 134.

Cream-coloured above, with 18 large, elliptic, black-edged, brown streaks; sides cream-coloured, spotted or marbled with black; head and neck pale brown, sides of neck with interrupted, black, longitudinal markings; upper lip yellow; base of tail like the body, posterior part brown with a black lateral streak. Lower surface uniformly yellow. Length of head and body 1400 mm.; tail 600 mm.

Type-specimen examined in the British Museum.

Habitat: Borneo (Sarawak river, Pangkalan ampat!, Kina Balu).

17. **Zamenis** Wagler.


Head long, distinct from neck; eye large; pupil round. Maxillary teeth 12—20, largest posteriorly; mandibular teeth equal, or anterior enlarged. Body long, round, covered with smooth or feebly keeled scales with pits, in 15—43 rows; ventrals rounded or with an obtuse keel laterally. Tail long; subcaudals in two rows.

Distribution. Europe; Asia; N. Africa; N. & C. America.

**Key to the Indo-Australian species.**

A. Scales in 13 rows; ventrals 187—197. . . . . . . . . . . . . . 1. *Z. dipsas* p. 96.
B. Scales in 15 rows; ventrals 160—177. . . . . . . . . . . . . . 2. *Z. korros* p. 96.
C. Scales in 17 rows; ventrals 187—213. . . . . . . . . . . . . . 3. *Z. mucosus* p. 98.
1. Zamenis dipsas (Schlegel).

_Zamenis dipsas_, Boulenger, Cat. Sn. 1 1893, p. 383.

Snout obtuse, projecting; eye very large. Rostral just visible from above; internasals shorter than the praefrontals; frontal as long as or longer than its distance from the tip of the snout, shorter than the parietals; loreal more long than deep; praecocular single or divided; not touching the frontal; a small subocular below; two postoculars; temporals 1 + 2 or 2 + 2; eight upper labials, fourth and fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales smooth, in 13 rows; ventrals 187—197; anal entire; subcaudals 102—139.

Blackish-brown above; sides yellow anteriorly with vertical black bars; upper lip yellow. Lower surface yellow anteriorly, brown in the middle, blackish-brown posteriorly. Young specimens pale yellowish-brown with dark spots or cross-bands or with two dark dorsal stripes, uniformly olive posteriorly; a yellow collar, sometimes interrupted in the middle. Length of head and body 1450 mm.; tail 550 mm.

_Habitat:_ Celebes (Manado!, Tomohon, Rurukan!, Kolaka on Mingkoka Bay); Halmahera.

2. Zamenis korros (Schlegel).

_Coluber korros_, Schlegel, Phys. Serp. 1837, p. 139.
_Zamenis korros_, Boulenger, Cat. Sn. 1 1893, p. 384.

Snout obtuse, projecting; eye very large. Rostral visible from above; internasals shorter than the praefrontals; frontal as long as its distance from the tip of the snout or a little longer, as long as the parietals; two or three loreals; a large praecocular, sometimes touching the frontal; a small subocular below; two postoculars; temporals 2 + 2; eight upper labials, fourth and fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales smooth or feebly keeled on the posterior part of the body, in 15 rows; ventrals 160—177; anal divided; subcaudals 122—145.

Brown or olive above; the scales on the posterior part of the body and on the tail often yellow and edged with black.
Lower surface yellow. Young specimens with transverse series of round whitish spots or with narrow yellow transverse bars. Length of head and body 1080 mm.; tail 700 mm.

Nom. indig. Ular korros (mal.) or ular liar.
Habitat: Sumatra (Labuan, Djambi!, Gunung Sahilan!,

Fig. 41. *Zamenis korros* (Schleg.) × 1/4.
Young specimen with light bars on the foreground. Side view of head.

Fort de Kock!, Padang!, Palembang, Gunung Suigei in Lamp-pong district); Java (Gadok, Bantam, Depok, Anjer, Buitenzorg!, Pekalongan!, Semarang, Salatiga!, Garum!, Kediri!, Prigan

Indo-australian reptiles II.
1800—2300 feet); Borneo (Bandjermassin, Samarinda!). — Singapore; Penang; Malay Peninsula; Siam; S. China; Yunnan; Burma; Assam; E. Himalayas.

The Rat-snake feeds on birds and frogs as well as on rats.

3. Zamenis mucosus (L.).

*Coluber mucosus*, Linné, Syst. Nat. 1 1766, p. 388.

*Zamenis mucosus*, Boulenger, Cat. Sn. 1 1893, p. 385 (s. syn.).

Snout obtuse, projecting; eye very large. Rostral visible from above; internasals shorter than the praefrontals; frontal as long as its distance from the tip of the snout, as long as the parietals or shorter; usually three loricals; praecocular large, not in contact with the frontal; a small subocular below; two postoculars; temporals 2 + 2; eight upper labials, fourth and fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales keeled on the posterior part of the back, in 17 rows; ventrals 187—213; anal divided; subcaudals 95—143.

Yellowish-brown or olive-brown above, usually with black transverse bands on the posterior part of the body and on the tail; lips yellow, with black edges of the labials. Lower surface yellow, the posterior ventrals and subcaudals often edged with black. Young specimens usually with light transverse bands on the anterior part of the body. Length of head and body 1730 mm.; tail 550 mm.; attains a length of nearly 4 M.

*Habitat:* Sumatra (Deli); Java (Batavia, Semarang!, Salatiga!, Ambarawa!, Garum!). — Singapore; Malay Peninsula; Andamans; S. China; Siam; Burma; India; Ceylon; Transcaspia.

Not as common as the preceding one. When angry this Rat-snake dilates its neck and raises its head like a cobra and produces a strong growling sound. The female lays 8—16 eggs.

18. *Coluber* L.

*(Linne, Syst. Nat. 1 p. 375, 1766).*

Head long, distinct from neck; eye large; pupil round. Maxillary teeth 12—22, equal; anterior mandibular teeth longest. Body long, round or a little compressed, covered with smooth or keeled scales with pits, in 15—35 rows; ventrals rounded or angulate. Tail long; subcaudals in two rows.

*Distribution.* Europe; Asia; N. & Tropical America.
Key to the Indo-Australian species.

A. Scales in 19 rows.
   II. Scales keeled; anal entire.

B. Scales in 21 rows.

C. Scales in 23—27 rows.
   I. Anal divided.
       b. Two labials entering the eye.
   II. Anal entire.

1. Coluber porphyraceus Cantor.

Coluber porphyraceus, Boulenger, Cat. Sn. II 1894, p. 34 (s. syn.).

Rostral more broad than deep, visible from above; inter- 
nasals shorter than the prefrontals; frontal broad, as long as 
or longer than its distance from the tip of the snout, shorter 
than the parietals; loreal small, more long than deep; pra- 
ocular large; two postoculars; temporals $1 + 2$; eight upper 
labials, fourth and fifth entering the eye; four or five lower 
labials in contact with the anterior chin-shields; latter longer 
than the posterior. Scales in 19 rows, smooth; ventrals 190—218, 
rounded; anal divided; subcaudals 52—76.

Red or reddish-brown above, with dark brown, black-edged 
transverse bands; two longitudinal black lines along the body 
and tail, sometimes indistinct anteriorly; head with a black 
streak along the middle, another from the eye to the first 
transverse band. Lower surface yellow. Length of head and 
body 620 mm.; tail 140 mm.

Habitat: Sumatra (Medan!, Brastagei on Battak Highlands!, 
Alahan Pandjang, near Danau di Talang). — Singapore; Malay 
Peninsula; Andamans; Yunnan; Burma; Assam; E. Himalayas.

2. Coluber melanurus Schlegel.

Coluber melanurus, Boulenger, Cat. Sn. II 1894, p. 60.

Rostral more broad than deep, visible from above; internasals shorter than the praefrontals; frontal as long as or longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or a little more long; a large praeocular; two postoculars; temporals $2 + 2$ or $2 + 3$; nine upper labials, fourth to sixth entering the eye; five or six lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 19 rows, 21 on the neck, strongly keeled; ventrals 193—234, with an obtuse lateral keel; anal entire; subcaudals 89—115.

Brown or greyish anteriorly, with a reddish, black-edged vertebral band; dark brown or black posteriorly; on each side a series of black spots anteriorly, the markings disappearing in the adult; head with a dark streak below the eye; an oblique streak from the eye to the mouth and another on the temporal region and the neck. Lower surface yellow anteriorly, brown or blackish behind. Young specimens with a series of black ocelli with yellow centres on each side of the body anteriorly. Length of head and body 1400 mm.; tail 400 mm.
Nom. indig. Ular babi (mal.).

Habitat: Simalur!; Nias!; Mentawei Islands (Siberut!); Sumatra (Sabang on Pulu Weh!, Atjeh, Bindjey, Labuan, Asahan, Medan!, Serdang!, Pangkalan Brandan!, Langkat, Bedagei, Indragiri, Djambi!; Tandjung Laut in Palembang, Indrapura, Kaju tanam!, Gunung sahilan!, Muara Labu, Batang Singlajang!, Fort de Kock, Agam, Kalung!, Padang!); Banka!; Riou!; Borneo (Kutei, Bulangan river, Sandakan Bay, Bongon, Baram river, Rejang river, Kuching, Sungei duri, Singkawang, Sintang, Buntok, Balikpapan); Java (Anjer, Buitenzorg!, Mt. Salak 2200 feet, Tjibodas, Wonosobo, Semarang, Salatiga!, Ambarawa, Surabaja); Celebes (Manado!, Macassar!). — Penang; Singapore; Malay Peninsula; Nicobars; Andamans; Burma; S. China.

Note. Bethencourt Ferreira mentions a snake from Timor (Journ. Sc. Lisboa (2) V 1897, p. 113) much resembling C. melanurus and young specimens of C. erythrurus. He gives this form the name of C. melanurus var. timoriensis. It has one or two suboculars; 237 ventrals; 96 subcaudals.

3. Coluber radiatus Schlelgel.

Coluber radiatus, Boulenger, Cat. Sn. II 1894, p. 61 (s. syn.).

Rostral more broad than deep, visible from above; internasals shorter than the praefrontals; frontal as long as or shorter than its distance from the tip of the snout, shorter than the parietals; loreal more long than deep; praeocular large; two postoculars; temporals generally 2 + 2; eight or nine upper labials, third to fifth, fourth and fifth or fourth to sixth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 19 rows, 21 on the neck, keeled on the posterior part of the body, outer rows smooth; ventrals 224—245, with an obtuse lateral keel; anal entire; subcaudals 85—100.

Yellowish-brown above, with one or two black stripes on each side of the back anteriorly, the lower often broken up; head with a black line across the occiput; three black lines radiating from the eye. Lower surface yellow, uniform or speckled with olive. Length of head and body 1280 mm.; tail 330 mm.
Nom. indig. Ular tikus (mal.).

Habitat: Sumatra (Siboga, Agam, Padang); Java (Gadok, Batavia, Krawang!, Buitenzorg, Semarang, Tjandi!, Salatiga!, Kediri!); W. & S. E. Borneo!: — Singapore; Penang; Malay Peninsula; Siam; Cochin China; Burma; Assam; Bengal; E. Himalayas.

4. Coluber erythrurus (Dum. & Bibr.).

Coluber erythrurus, Boulenger, Cat. Sn. II 1894, p. 62 (s. syn.).

Rostral more broad than deep, visible from above; internasals shorter than the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal about as deep as long; a large praecocular; two postoculars; temporals 2 + 2; nine upper labials, fourth to sixth entering the eye; six lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 21 rows, keeled, 23 on the neck; outer row of caudal scales smooth or feebly keeled; ventrals 211—235; anal entire; subcaudals 86—112.

Dark brown above, anteriorly reddish-brown with a V- or Λ-shaped black marking on the neck; lips yellowish. Lower surface yellowish anteriorly, dark brown behind; subcaudals lighter. Young specimens with black vertical bands on each side, alternating with one another. Length of head and body 1300 mm.; tail 370 mm.

Nom. indig. Ule alo (Toradja-name).

Habitat: Celebes (Gorontalo, Manado, Posso!, Kema, Kandari, Macassar, Tjamba); Buton. — Philippines; Sulu Islands.

This snake can inflate its neck, resembling a cobra.

5. Coluber janseni (Bleeker).

Coluber janseni, Boulenger, Cat. Sn. II 1894, p. 57; pl. I, fig. 2.

Snout obtuse, projecting; rostral more broad than deep, visible from above; internasals slightly shorter than the praefrontals; frontal as long as or shorter than its distance from the tip of the snout, shorter than the parietals; loreal at least twice as long as deep; praecocular large, in contact with the frontal; two postoculars; temporals 1 + 2 or 2 + 3; nine or ten upper labials, fifth to seventh entering the eye; five or six
lower labials in contact with the anterior chin-shields; latter much longer than the posterior. Scales in 23 or 25 rows, smooth or feebly keeled; ventrals 247—256 with a lateral angle; anal divided; subcaudals 122—140.

Olive or yellowish above, all the scales black-edged or only a few; posteriorly black; a broad blackish lateral band sometimes present. Lower surface yellowish anteriorly, blackish with yellow lateral keels posteriorly; subcaudals black, towards the end of the tail yellowish with dark edges. Young specimens pale olive anteriorly, with or without small black markings, greyish posteriorly. Length of head and body 1540 mm.; tail 450 mm.

Nom. indig. Tomesumpu (Toradja-name).

Habitat: Celebes (Kema, Tomohon, Kottabangu, Manado, Posso!, Mapane, Luhu, Macassar).

6. Coluber taeniurus (Cope).

*Coluber taeniurus*, Boulenger, Cat. Sn. II 1894, p. 47 (s. syn.).

Rostral more broad than deep, visible from above; internasals much shorter than the praefrontals; frontal as long as or shorter than its distance from the tip of the snout, as long as or slightly shorter than the parietals; loreal more long than deep; praecocular large, sometimes in contact with the frontal; often a small subocular; two postoculares; temporals 2 + 2 or 2 + 3; nine (eight) upper labials, fifth and sixth (fourth and fifth) entering the eye; five or six lower labials in contact with the anterior chin-shields; latter as long as or longer than the posterior. Scales in 23 or 25 rows, dorsals feebly keeled, outer rows smooth; ventrals 230—305, with a lateral angle; anal divided (rarely entire); subcaudals 89—114.

Grey-brown or olive above, with a black network or transverse lines anteriorly, a light vertebral stripe between two black bands posteriorly; head and nape uniform; a black band on each side of the head passing through the eye. Lower surface yellowish in front, greyish behind with a black stripe along each side, bordered above by a whitish streak. Length of head and body 1600 mm.; tail 400 mm.

Habitat: Sumatra (Pajo); Borneo (Braang, Sarawak river, Sadong river, caves of Batu Hapu Pengaron and Barabei!). —
Malay Peninsula; Siam; Cochin China; Sikkim; China; E. Himalayas.

Note. In the limestone caves of the Malay Peninsula this snake lives in the dark feeding on bats. There it is of a much paler colour, without the dark network, the lower parts whitish; head bluish-grey; sides with a purplish band, getting black towards the tail.

7. **Coluber oxycephalus** Boie.

*Coluber oxycephalus*, Boie, Isis, 1827, p. 537.
*Coluber oxycephalus*, Boulenger, Cat. Sn, II 1894, p. 56 (s. syn.).

Snout long, projecting; rostral about as broad as deep, visible from above; internasals shorter than the praefrontals,

![Image of Coluber oxycephalus](image_url)

Fig. 43. *Coluber oxycephalus* Boie $\times 3/8$. Side view of head.

which are large; frontal as long as its distance from the rostral or the tip of the snout, shorter than the parietals; loreal long; praecocular large, in contact with the frontal; two postoculars;
temporals 2 + 3; nine to eleven upper labials, fifth and sixth or sixth and seventh entering the eye; six lower labials in contact with the anterior chin-shields; latter much longer than the posterior. Body compressed; scales in 23—27 rows, smooth or feebly keeled; ventrals 233—263, with a lateral angle; anal divided; subcaudals 122—157.

Green above, usually with black edges on the scales; head olive-brown; a black streak on each side passing through the eye; tail yellowish-brown, sometimes with vermilion bands. Lower surface yellow or greenish. Young specimens olive-brown with narrow oblique light bars on the posterior part of the back; lower parts lighter, throat yellowish, each ventral bordered behind with yellow, ventral keels yellowish. Length of head and body 1820 mm.; tail 480 mm.

N o m. i n d ig. Ular bangka laut or ular bamban (mal.).

H a b i t a t : Nias!; Sumatra (Labuan, Medan!, Stabat, Assahan, Raja Mts., Indrapura, Singkel, Kertadjaja, Palembang); Banka!; Riou!; Natuna Islands; Borneo (Sandakan Bay, Baram, Braang, Kuching, Santubong, Trusau river, Rejang river, Kapuas river, Labuan, Singkawang, Pontianak, Bandjermassin, Balikpapan, Samarinda!); Java (Gadok, Depok, Buitenzorg!, Pekalongan!, Salatiga!, Ambarawa, Prigan 1800—2300 feet); Lombok; Celebes (Manaco!, Manado!). — Penang; Singapore; Malay Peninsula; Siam; Nicobars; Andamans; Burma; E. Himalayas; Philippines.

8. Coluber enganensis Vincig.


Rostral slightly more broad than deep; fourth, fifth and sixth upper labials entering the eye; posterior chin-shields not or slightly longer than anterior. Scales in 23 rows (25 on the neck); ventrals 239—243; anal entire; subcaudals 107—108.

Brown above, uniform or with black spots in longitudinal series on the anterior part of the body; a dark streak behind the eye. Lower surface yellowish, spotted with brown posteriorly. Length of head and body 1110 mm.; tail 310 mm. (Not seen by me).

H a b i t a t : Engano Island.


*Coluber subradiatus*, Boulenger, Cat. Sn. II 1894, p. 64.

Rostral much more broad than deep; internasals shorter than the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal more deep than long; praecocular large; a subocular; two postoculars; temporals 2 + 2 or 2 + 3; nine upper labials, fifth and sixth entering the eye, fourth very small; five lower labials in contact with the anterior chin-shields; latter much shorter than the posterior. Scales in 23 or 25 rows (25 or 27 on the neck); ventrals 226—248; anal entire; subcaudals 80—102.

Reddish-brown above, with two black stripes along each side of the anterior part of the body; the stripes sometimes broken up into spots; a black streak behind the eye. Lower surface yellowish. Length of head and body 990 mm.; tail 260 mm.

Habitat: Lombok; Flores!; Alor; Sumba; Rotti!; Timor!; Samao!.


Head long, distinct from neck; eye moderate; pupil round. Maxillary teeth 23, equal; mandibular teeth about equal. Body long, compressed, covered with feebly keeled scales with pits, in 19 rows, disposed obliquely anteriorly; ventrals with a lateral keel and a notch on each side. Tail long; subcaudals in two rows, keeled and notched like the ventrals.

Distribution. Malay Peninsula; Borneo.

A single species.


*Gonyophis margaritatus*, Boulenger, Cat. Sn. II 1894, p. 71.

Rostral more broad than deep, visible from above; internasals shorter than the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal more long than deep; praecocular just touching the frontal or separated from it; two postoculars; temporals 2 + 2 or 3; nine
upper labials, fourth to sixth or fifth and sixth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 19 rows, feebly keeled; ventrals 230—249; anal divided; subcaudals 108—130.

Black above, each scale with a yellowish-green spot, or green with black-bordered scales; posterior part of body and tail

![Image](image-url)

Fig. 44. *Gonyophis margaritatus* (Ptrs.). After Peters.

with orange rings; a black streak on each side of the head behind the eye, and another on the suture between the parietals. Lower surface yellowish, sometimes with black edges to the shields. Length of head and body 1160 mm.; tail 370 mm.

**Habitat:** Borneo (Mt. Dulit, Sarawak, Kuching, Mt. Merinjak 2200 feet on Sadong river, Balikpapan!). — Singapore; Malay Peninsula.

### 20. *Lycodon* Boie.

(Boie. *Isis* p. 521, 1827).

Head slightly distinct from neck, depressed; eye rather small; pupil vertically elliptic; nostril large. Maxillary curved anteriorly, 3—6 anterior teeth fang-like, separated by an interspace from the rest, 7—15, of which the posterior are largest; anterior mandibular teeth long. Body long, round or compressed, covered with smooth or keeled scales with pits, in 17, 19 or 21 rows; ventrals rounded or with a lateral keel. Tail moderate; subcaudals single or in two rows.

**Distribution.** S. E. Asia.

Nocturnal and oviparous snakes.
Key to the Indo-Australian species.

A. No praecocular; praefrontal entering the eye; scales
in 17 rows ........................................ 1. L. subcinctus p. 108.

B. Praecocular present, separating the eye from the
praefrontal.


II. Scales smooth.

a. Subcaudals single.


b. Subcaudals in two rows; scales in 17 rows.

1. Loreal present; anal divided .............. 5. L. anticus p. 111.


1. Lycodon subcinctus Boie.

Lycodon subcinctus, Boie, Isis 1827, p. 551.
Lycodon subcinctus, Boulenger, Cat. Sn. I 1893, p. 359.

Snout broad, much depressed; eye small; rostral just visible
from above; internasals much shorter than the praefrontals;
frontal shorter than its distance from the tip of the snout,
much shorter than the parietals; loreal long, widely separated
from the internasal, usually entering the eye; no praecocular;
two or three postoculars; temporals 1 + 2; eight upper labials,
third to fifth or sixth entering the eye; four lower labials in
contact with the anterior chin-shields; latter longer than the
posterior. Scales in 17 rows, dorsals feebly keeled; ventrals
128—230, with a lateral angle; anal divided (rarely entire);
subcaudals 61—90 pair.

Dark brown or black above, with a white occipital region
and widely separated rings on the body and tail, disappearing
in the adult. Lower surface brown or yellowish-brown. Length
of head and body 820 mm.; tail 180 mm.

Habitat: Simalur!; Nias; Mentawei Islands (Siberut!); Sumatra (Labuan, Deli!, Bedagei, Langkat, Fort de Kock,
Pajo, Rau, Padang); Borneo! (Sandakan, Bulangan river, Ku-
ching, Muching); Java (Batavia, Depok, Buitenzorg!, Salak,
Sukabumi!, Semarang, Tjandi!, Gunung Ungaran!, Wonoobobo,
Madiun!, Kediri!, Nongkodjadjar in Tengger Mts. 1300 M.!,
Prigan 1800—2300 feet); Lombok; Sumbawa. — Penang; Singa-
pore; Malay Peninsula; Siam; Philippines.

Feeds on lizards.
Fig. 45. *Lycodonsubcinctus* Boie $\times \frac{4}{5}$. Young specimen with light bands. 
Side view of head.

2. *Lycodon albofuscus* (Dum. & Bibr.).

*Lycodon albofuscus*, Boulenger, Cat. Sn. I 1893, p. 357.

Snout depressed; eye moderate; rostral just visible from above; internasals half as long as the praefrontals; frontal as long as the praefrontals or slightly longer, much shorter than the parietals; loreal more long than deep, not entering the eye; one praec- and two postoculars; temporals $2 + 2$; eight
upper labials, third to fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Body slender; scales in 17 rows, all strongly keeled; ventrals $238-256$, with strong lateral angle; anal divided; subcaudals $155-208$ pair.

Dark brown above; yellowish below. Young specimens with yellow transverse bands. Length of head and body 1180 mm.; tail 590 mm.

**Habitat:** Nias; Sumatra (Deli!, Indragiri); Borneo (Kina Balu, Rejang river, Kuching).

### 3. *Lycodon stormi* Böttger.


*Lycodon stormi*, Boulenger, Cat. Sn. I 1893, p. 357; Proc. Zool. Soc. 1897, p. 219, pl. XII, fig. 3.

Head much depressed; eye small; rostral just visible from above; internasals much shorter than the praefrontals; frontal as long as praefrontals and internasals together, as long as its distance from the tip of the snout, much shorter than the parietals; loreal a little more long than deep, large, not entering the eye; one praecocular not in contact with the frontal; two postoculars; temporals $1+3+4$ or $3+4+4$; eight or nine upper labials, third and fourth or third to fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 19 rows, smooth; ventrals $217-231$, with a lateral angle; anal entire; subcaudals 73—78, single.

Brown above, with 23 white, black-spotted annuli. Lower surface brown with whitish annuli. Length of head and body 585 mm.; tail 135 mm.

**Habitat:** Celebes (Buol!).

### 4. *Lycodon florens* n. sp.

Head much depressed; eye small; rostral just visible from above; internasals small, suture between them half the suture between the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal more long than deep, not entering the eye; two praecoculars, not in contact with the frontal; two (three) postoculars; temporals $2+3+4$; nine (eight) upper labials, third to fifth (third and fourth) entering the eye; five lower labials in contact with the anterior
chin-shields; latter about as long as the posterior. Scales in 21 rows, smooth; ventrals 218, with a lateral angle; anal entire; subcaudals 66, single.

Brown above, paler towards the sides; an indistinct light lateral streak; head yellowish, powdered with brown, a brown streak from the nostril through the eye to the angle of the mouth. Lower surface yellow, each ventral with a pale brown spot at the outer ends; tail pale brownish below. Length of head and body 456 mm.; tail 112 mm.

Type-specimen in the Amsterdam Museum.

Habitat: Flores (near Kotting!).

5. Lycodon aulicus (L.).

Coluber aulicus, Linne, Mus. Ad. Frid. 1 1754, p. 29, pl. XII, fig. 2.

Lycodon aulicus, Boulenger, Cat. Sn. 1 1893, p. 352 (s. syn.).

Snout much depressed, lips swollen; eye small; rostral just
visible from above; internasals much shorter than the praefrontals; frontal usually shorter than its distance from the tip of the snout, shorter than the parietals; loreal long, not entering the eye, in contact with the internasal; one praecocular, usually in contact with the frontal; two (sometimes three) postoculars; temporals $2 + 3$ or $3 + 3$; nine upper labials, third to fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 17 rows, smooth; ventrals $176—224$, with an obtuse lateral angle; anal divided (rarely entire); subcaudals $53—80$ pair.

Brown above, with a fine yellow network; a yellow collar or a triangular yellow spot on each side of the occiput; sometimes yellow transverse, bifurcating bands on the back or a series of quadrangular yellow spots; labials yellow, some or all with a brown spot. Lower surface white or pale yellow.

Length of head and body $400$ mm.; tail $110$ mm.

Nom. indig. Ular tana (mal.).

Habitat: Sumatra (Labuan in Deli, Singkel, Palembang-district!); Java (Tangerang!, Batavia!, Buitenzorg!, Anjer, Depok, Pekalongan!); Bali; Sumbawa; Sumba; Savu; Rotti!; Timor!; Flores!; Lombok!; Alor; Wetar; Saleyer!; Celebes (Raha, Macassar!, Tempe!, Bonthain); Kalao Island. — Philippines; Malay Peninsula; Singapore; Penang; Andamans; Nicobars; Cochin China; Siam; Burma; Himalayas; India; Ceylon.

The female lays a few eggs, $3—9$.

6. **Lycodon effrenis** Cantor.

*Lycodon effrenis*, Cantor, Cat. Mal. Rept. 1847, p. 70, pl. XI., fig. 2.

*Lycodon effrenis*, Boulenger, Cat. Sn. I 1893, p. 356 (s. syn.).

Snout much depressed; eye moderate; rostral just visible from above; internasals half as long as the praefrontals; frontal as long as or slightly longer than its distance from the tip of the snout, shorter than the parietals; no loreal; praefrontal in contact with the second and third labials; a praecocular, not in contact with the frontal; two or three postoculars; temporals $2 + 3$ or $3 + 3$; nine upper labials, third to fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter longer than the posterior. Body slender; scales in 17 rows, smooth; ventrals $215—228$, with a lateral angle; anal entire; subcaudals $75—98$ pair.
Brown above, with a few yellowish rings, indistinct in the adult. Lower surface brown. Young specimens with a yellowish streak on each side of the head. Length of head and body 530 mm.; tail 170 mm.

Habitat: Sumatra (Deli); Borneo (Singkawang, Baram!). — Penang; Malay Peninsula.

*Lycodon fasciatus* Anders. is recorded from the “Indes Néerlandaises” by Despax (Bull. Mus. d’hist. natur. N°. 4 1912, p. 3). This species normally lives in Burma, Assam and Yunnan, so that the locality above mentioned does not seem probable.


Head distinct from neck, much depressed; eye moderate; pupil vertically elliptic; nostril very large, between two nasals and the first upper labial. Maxillary teeth 6 + 6. Body very long and slender, round, covered with strongly keeled scales with pits, the keels finely serrated, in 17 rows; ventrals keeled and notched laterally. Tail very long and slender; subcaudals in two rows.

Distribution. Borneo.

A single species.


Snout much depressed, broadly truncate; rostral just visible from above; internasals scarcely half as long as the praefrontals; frontal as long as the praefrontals, half as long as the parietals;

*Fig. 48. Lepturophis borneensis* Blgr. After Boulenger.
loreal more long than deep; one prae- and two postoculars; temporals \(2 + 2\); eight upper labials, third to fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 17 rows; ventrals 241; anal divided; subcaudals 193.

B. Brown above; white below. Length of head and body 910 mm.; tail 570 mm. (After BOULENGER; not seen by me).

Habitat: Borneo (Kuching, Sarawak).

22. Stegonotus Dum. & Bibr.


Head distinct from neck; eye moderate or small; pupil vertically elliptic. Maxillary teeth 15—20, increasing in size to the median ones; two or three last large; anterior mandibular teeth enlarged. Body long, round or a little compressed, covered with smooth scales with pits, in 15, 17 or 19 rows; ventrals with an obtuse lateral angle. Tail rather long; subcaudals single or in two rows.

Distribution. Philippines; Moluccas; New Guinea; Queensland.

Key to the Indo-Australian species.

A. Scales in 19 rows

B. Scales in 17 rows.

1. Two labials entering the eye

II. Three labials entering the eye.

a. One preocular

b. Two preoculars

C. Scales in 15 rows.

1. One anterior temporal; eight upper labials, fourth and fifth entering the eye; loreal twice as long as deep; ventrals 180—197

2. Two anterior temporals; seven upper labials, third and fourth entering the eye; loreal not quite one time and a half as long as deep; ventrals 167—183.

1. Stegonotus magnus (Meyer).


Rostral more broad than deep, wedged in between the inter-nasals; latter half as long as the prefrontals; frontal slightly
more long than broad, shorter than the parietals; loreal more long than deep; two praeco- and two postoculars; temporals $2 + 2$; eight or nine upper labials, fourth and fifth entering the eye; four lower labials in contact with the anterior chinshields. Scales in 19 rows; ventrals 207—222; anal entire; subcaudals 74 pair.

Whitish above with a reddish tinge, scales of the back brown or with brown base or bordered with brown, sometimes partly dark-banded; head brown, the scales light-edged. Lower surface white. Length of head and body 1220 mm.; tail (broken) 180 mm.

Habitat: New Guinea (Lorentz river!); Schouten Islands (Mysore).

2. *Stegonotus modestus* (Schlegel).

*Lycodon modestus*, Schlegel, Phys. Serp. 1837, p. 119, pl. IV, fig. 16 & 17.


*Stegonotus cucullatus*, Boulenger, Cat. Serp. 1893, p. 365 (s. syn.).


Rostral more broad than deep, visible from above; inter-

![Image](https://example.com/image)

Fig. 49. *Stegonotus modestus* (Schleg.) $\times \frac{1}{2}$. Side view of head.

nasals about two thirds the length of the praefrontals; frontal
as long as or shorter than its distance from the tip of the snout, much shorter than the parietals; loreal more long than deep; two (one) praec- and two postoculars; temporals 1 + 2, 2 + 2 or 2 + 3; seven or eight (9) upper labials, third and fourth (fourth and fifth) entering the eye; four or five lower labials in contact with the anterior chin-shields; latter as long as or longer than the posterior. Scales in 17 rows; ventrals 170—230; anal entire; subcaudals 68—105 pair.

Brown above; sides sometimes whitish, with black edges on the scales (S. reticulatus); upper lip yellowish. Lower parts yellow, often a brown spot at the outer end of each ventral. Length of head and body 890 mm.; tail 250 mm.

Type-specimen examined in the Leiden Museum.

Habitat: Samao!; Ternate; Halmahera; Salawatti; Misol; Ceram; Buru; Ambon!; Kei Islands!; Aru Islands; New Guinea (Fak Fak, Sorong, Rubi, Amberbaki, Mansinam, Dorei, Passim, Jobi, Mafoor, Manokwari, lake Sentani, Setekwa!- and Mimika rivers, Utakwa river 2500 feet, Lorentz river!, Fly river!, Hula, Haveri, Bara Bara, Mt. Victoria in Owen Stanley Range, Madew on St. Joseph river 2—3000 feet, Samarai Island, Sepik river, Tami, Bogadjim, Stephansort, Bongu, Sattelberg, Valise Island); Schouten Islands (Mysore). — Ferguson and Trobiand Islands; Woodlark Island; Islands of Torres Straits; Cape York; Bismarck Archipelago.

3. Stegonotus batjanensis (Gthr.).

Coluber (Lielaphis) batjanensis, Günther, Ann. Nat. Hist. (3) XV 1865, p. 93, pl. II, fig. A.

Stegonotus batjanensis, Boulenger, Cat. Sn. I 1893, p. 368.

Rostral much more broad than deep, visible from above; internasals about half as long as the praefrontals; frontal as long as its distance from the tip of the snout, much shorter than the parietals; loreal more long than deep; one praec- and two postoculars; temporals 1 + 2 or 2 + 2; eight upper labials, third to fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter as long as or longer than the posterior. Scales in 17 rows; ventrals 200—236; anal entire; subcaudals 78—87 pair.

Dark brown or grey above; head and sides of head yellowish or orange with black-edged shields. Lower surface yellowish,
ventrals laterally edged with black; subcaudals edged with black or entirely black. Young specimens with yellowish or orange narrow transverse bars, widening towards the belly, the anterior interrupted on the vertebral line and alternating. Length of head and body 1200 mm.; tail 320 mm.

Habitat: Batjan; Halmahera; Morotai; Ambon.


*Stegonotus plumbeus*, Boulenger, Cat. Sn. I 1893, p. 368.


Rostral almost twice as broad as deep, visible from above; internasals two thirds as long as the praefrontals; frontal short and broad, as long as its distance from the rostral, shorter than the parietals; loreal oblong; two praec- and two postoculars; temporals \(2 + 3\); nine upper labials, third to fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 17 rows; ventrals 211—219; anal entire; subcaudals 67—74 pair.

Leaden-black above, uniform; scales on the sides white-edged. Lower surface yellowish-white; lateral ventral keel yellow, each ventral with a dark brown spot on each side of the keel; subcaudals with a black patch on their base. Length of head and body 1183 mm.; tail 257 mm.

Habitat: S. New Guinea (Setekwa river). — Queensland (Herbert river).


Rostral much more broad than deep, visible from above; internasals shorter than the praefrontals; frontal as long as its distance from the rostral, much shorter than the parietals; loreal about twice as long as deep; one praec- and two postoculars; temporals \(1 + 2\); eight upper labials, fourth and fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 15 rows; ventrals (176) 180—197; anal entire; subcaudals (73) 75 pair.

Black or dark brown above, paler on the sides; upper lip
white. Lower surface white. Length of head and body 920 mm.; tail 230 mm.

Type-specimens examined in the British Museum.

Habitat: New Guinea (Bongu). — Ferguson Island!.


Rostral much more broad than deep, just visible from above; internasals shorter than the prefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal not quite one time and a half as long as deep; one or two praecoculars, the upper separated from the frontal; two postoculairs; temporals 2 + 2; seven upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 15 rows; ventrals 167—183; anal entire; subcaudals 75—112 pair.

Dark brownish-grey above, lighter on the sides; a whitish spot on the prefrontals near the outer border; hindborder of the internasals, suture between the parietals and suture between the parietals and frontal and supraocular whitish; a short oblique whitish streak on the posterior part of the parietals; upper lip whitish, with round grey spots on the sutures; a narrow whitish collar, interrupted in the middle and continued anteriorly on the temporal region, which is grey-spotted. Lower surface whitish, sutures between the subcaudals greyish. Length of head and body 415 mm.; tail 125 mm.

Habitat: New Guinea (Bogadjim on Astrolabe Bay, Kaiscrin-Augusta river!, Bégowre river!, Lorentz river!).

23. Dryocalamus Günther.

(Günther, Cat. Col. Snakes p. 121, 1858).

Head distinct from neck, depressed; eye rather large; pupil vertically elliptic. Maxillary teeth 8—10, short, increasing in size posteriorly; anterior mandibular teeth longer than posterior; one or two tooth-like knobs on the basisphenoid. Body a little compressed, slender, covered with smooth scales, with pits, in 13 or 15 rows; ventrals strongly keeled on each side. Tail moderate; subcaudals in two rows.

Distribution. Malay Peninsula; Sumatra; Natuna Islands; Borneo.
Key to the Indo-Australian species.

A. One praeocular

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1. *D. subannulatus* p. 119.

B. No praeocular

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2. *D. tristrigatus* p. 120.

1. *Dryocalamus subannulatus* (Dum. & Bibr.).


*Dryocalamus subannulatus*, Boulenger, Cat. Sn. I 1893, p. 371 (s. syn.).

Rostral visible from above; nasal divided or partly divided; suture between the internasals as long as or longer than that between the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal more long than deep, entering the eye; one prae- and two post-

oculars; temporals 2 + 2; seven upper labials, third and fourth entering the eye; three or four lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 15 rows; ventrals 225—244; anal entire; subcaudals 88—107.

Light brown above, with large, brown, transverse spots across the back; on each side a series of small spots, alternating with the dorsals; two transverse brown streaks on the head, the anterior on the praefrontals, the other between the eyes; a brown spot on the parietals. Lower surface yellowish. Length of head and body 225 mm.; tail 70 mm.

Type-specimen examined in the Leiden Museum.
Habitat: Sumatra (Labuan in Deli, Indragiri, Gunung Sahilan!, Padang!); Riou!. — Singapore; Malay Peninsula.

2. Dryocalamus tristrigatus Günther.

Dryocalamus tristrigatus, Günther, Cat. Col. Snakes. 1858, p. 121.
Dryocalamus tristrigatus, Boulenger, Cat. Sn. I 1893, p. 372, pl. XXV, fig. 3.


Rostral more broad than deep, visible from above; nasal undivided; suture between the internasals shorter than that between the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal about twice as long as deep, entering the eye; no praecocular; two postoculars; temporals 2 + 2 or 2 + 3; seven (six) upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; posterior chin-shields very short. Scales in 15 rows; ventrals 218—231; anal entire; subcaudals 86—96.

Dark brown above, with three white stripes; outer row of scales white; shields of the head edged with white; upper lip white. Lower surface white. Length of head and body 280 mm.; tail 80 mm.

Type-specimen examined in the British Museum.

Habitat: Natuna Islands!; Borneo (Claudetown on Baram river, Baram!, Labuan, Mt. Mulu 2000 feet, Kuching, Penrissen Road).

24. Tetralepis Böttger.


Head small, not distinct from neck; eye small; pupil round. Maxillary teeth 14, third to eighth longest, last six decreasing in size; mandibular teeth increasing in size to the fifth, last very small. Body round, covered with smooth scales, without pits, in 15 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. Java.

A single species.

1) In the description of D. trilineatus, Brown states that his specimen from the Baram district has only one postocular. In the British Museum I examined a specimen of D. tristrigatus from the Natuna Islands with two postoculars on the right side and one on the left.
1. Tetralepis fruhstorferi Böttger.

*Tetralepis fruhstorferi*, Boulenger, Cat. Sn. 1 1893, p. 320.

Rostral just visible from above; nasal large, twice as long as deep; suture between the internasals longer than that between the praefrontals; frontal a little longer than its distance from the tip of the snout, much shorter than the parietals; loreal as long as deep; one praeco- and two postoculard; temporals 1 + 2 or 1 + 1 + 2, the anterior long; four upper labials, third entering the eye, fourth very long; four lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 15 rows; ventrals 187—201; anal divided; subcaudals 43—56.

Dark reddish-brown above, with a dark vertebral line. Lower surface bluish- or reddish-grey, each ventral with two brownish spots, the spots forming two longitudinal series along the belly. Length of head and body 432 mm.; tail 70 mm.

**Habitat:** Java! (Tengger Mts. 1200 M.).


*(DuméRIL & BibRON, Mém. Ac. Sc. XXIII p. 472, 1853).*

Head short, not distinct from neck; eye small; pupil round.
Maxillary teeth 8—12, posterior strongly enlarged, compressed; mandibular teeth about equal. Body round, covered with smooth or feebly keeled scales with or without pits, in 13—21 rows; ventrals rounded or with an obtuse lateral keel. Tail short; subcaudals in two rows.

Distribution. S. E. Asia.

Key to the Indo-Australian species.

B. Scales in 17 rows.
   I. Two anterior temporals ............. 2. S. octolineatus p. 123.
   II. One anterior temporal.
       a. Fourth and fifth labials entering the eye. 3. S. violaceus p. 124.
       b. Third and fourth labials entering the eye.
   ×× One postocular.
C. Scales in 19 or 21 rows ............. 7. S. purpurascens p. 126.

1. Simotes annulifer Boulenger.


Nasal divided; rostral large, visible from above; suture between the internasals shorter than that between the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal small; one prae- and two postoculars; temporals 1 + 2; seven upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 15 rows; ventrals 153; anal entire; subcaudals 49.

Brown above, with 26 black annuli on the back, enclosing oval, yellowish spots; sides spotted with black and with vertical and oblique yellow lines; head yellowish-brown, a dark bar across the forehead, passing through the eye; a large A-shaped spot from the frontal to the nape; an oblique bar on the temporal region; lips black-spotted. Lower surface white, with a series of black spots on each side; chin and throat black-spotted. Length of head and body 130 mm.; tail 30 mm.

Habitat: N. Borneo!
Note. In Bull. Mus. d’hist. nat. N°. 4 1912, p. 4; R. Despax describes a specimen caught in the Dutch East Indies and preserved in the Paris Museum, which is exactly like the only specimen known, but for the number of scales, which is 17, the anal shield which is divided and the number of subcaudal shields which is 53. Length of head and body 239 mm.; tail 66 mm. As it is the only specimen found, it is difficult to say if it should rank as a variety (Simotes annulifer var. bipartita Despax) or should be regarded as a distinct species.

2. Simotes octolineatus (Schn.).

Elaps octolineatus, Schneider, Hist. Amph. II 1801, p. 299.
Simotes octolineatus, Boulenger, Cat. Sn. II 1894, p. 224.

Nasal divided; rostral visible from above; suture between the internasals almost as long as that between the praefrontals; frontal longer than its distance from the tip of the snout, as long as the parietals; loreal as long as deep; one praef- and two postoculars; temporals 2 + 2; six upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 17 rows; ventrals 155—197, with an obtuse angle; anal entire; subcaudals 43—61.

Yellow or pale brown above, with six or eight black longitudinal stripes, or black with yellow lines (the vertebral line sometimes scarlet), narrower than the interspaces; head yellow, the two median black dorsal stripes confluent on the frontal; a black curved transverse band passing through the eyes; an oblique band on each side from the parietals to below the angle of the mouth. Lower surface yellow, sometimes with a series of black spots on each side, which may confluent into a line. Length of head and body 580 mm.; tail 100 mm.

Nom. indig. Ular birang (Borneo); ular pitar (mal).

Habitat: Nias!; Sumatra (Labuan, Medan!; Langkat, Bedagei, Singkel, Gunung Sahilan!, Padang); Siak!; Banka; Riou!; Borneo (Sandakan, Baram river, M. Kina Balu, Rejang river, Santubong, Kuching, Sungei duri, Singkawang!, Sintang, Montrado, M. Dunit, Bandjermassin, Samarinda!); Java (Depok,
Buitenzorg); Celebes (Macassar!). — Singapore; Malay Peninsula; S. India, Sulu Islands.

3. Simotes violaceus (Cantor).

*Simotes violaceus*, Boulenger, Cat. Sn. II 1894, p. 222 (s. syn.).

Nasal divided; rostral visible from above; suture between the internasals usually shorter than that between the praefrontals; frontal as long as its distance from the tip of the snout, as long as the parietals; loreal more long than deep; a praecocular; usually a small subocular between the third and fourth labials; one or two postoculars; temporals 1 + 2; eight upper labials, fourth and fifth entering the eye; three or four lower labials in contact with the anterior chin-shields; latter two times as large as the posterior or larger. Scales in 17 rows; ventrals 160—196; anal entire; subcaudals 33—41.

Pale brown or reddish above, with or without dark transverse bands; markings on the head indistinct. Lower surface uniform or with quadrangular brown spots. Length of head and body 685 mm.; tail 75 mm.

Habitat: N. Borneo (Bongon!). — Siam; Camboja; Burma; Assam; Bengal; S. China.

4. Simotes forbesi Boulenger.


Nasal divided; rostral visible from above; suture between the internasals shorter than that between the praefrontals; frontal longer than its distance from the tip of the snout, as long as the parietals; loreal more deep than long; one prae- and two postoculars; temporals 1 + 2 or 2 + 2; seven upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter almost twice as long as the posterior. Scales in 17 rows; ventrals 150—169 with a slight lateral angle; anal entire; subcaudals 43—48.

Greyish-brown above, dark borders on the scales; two fine dark brown lines along the back, on the inner border of the seventh row of scales, separated by three series of scales; head with symmetrical dark markings; a dark band across the fore-head. Lower surface yellowish, a lateral series of brown
spots or a stripe, the posterior ventrals sometimes brown in the middle, yellow on the sides. Length of head and body 247 mm.; tail 58 mm.

Type-specimens examined in the British Museum.

Habitat: Timor Laut; Dammar Island.

5. Simotes signatus Gthr.

Simotes signatus, Günther, Rept. Brit. Ind. 1864, p. 215, pl. XX, fig. F.

Simotes signatus, Boulenger, Cat. S. Ind. II 1894, p. 226.

Nasal divided; rostral visible from above; suture between the internasals as long as or shorter than that between the praefrontals; frontal longer than its distance from the tip of the snout, as long as the parietals; loreal small, square; one praef- and one postocular; temporals 1 + 2; seven upper labials, third and fourth entering the eye; three or four lower labials in contact with the anterior chin-shields; latter a little longer than the posterior. Scales in 17 rows; ventrals 141—157; anal entire; subcaudals 47—59.

Dark brown above, with rhomboidal transverse yellow spots or bands; head with symmetrical dark brown markings and yellow interspaces. Lower surface yellow; a lateral series of brown spots. Length of head and body 390 mm.; tail 130 mm.

Habitat: Sumatra (Labuan, Medan!, Serbadjadi!, Langkat, Indragiri); Java. — Singapore.


Simotes subcarinatus, Boulenger, Cat. S. Ind. II 1894, p. 226.

Nasal divided; rostral visible from above; suture between the internasals shorter than that between the praefrontals; frontal longer than its distance from the tip of the snout, as long as the parietals; loreal small, square; one praef- and one postocular; temporals 1 + 1 + 2; seven upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter almost twice as large as the posterior. Scales in 17 rows, feebly keeled: ventrals 155—166; anal entire; subcaudals 50—54.

Dark brown or olive above, with yellowish or pinkish, black-edged, transverse bands, the anterior chevron-chaped; head yellowish, with symmetrical brown or crimson markings. Lower
surface yellowish or crimson; sides with brown spots. Length of head and body 315 mm.; tail 80 mm.
Type-specimen examined in the British Museum.
Habitat: Sumatra 1); Borneo! (Kuching, Matang, Sarawak (Kidi-district!).

7. Simotes purpurascens (Schlegel).

*Simotes purpurascens*, Boulenger, Cat. Sn. II 1894, p. 218 (s. syn.).

Nasal divided; rostral visible from above; suture between the internasals as long as or longer than that between the praefrontals; frontal much longer than its distance from the tip of the snout, as long as or longer than the parietals; loreal

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Fig. 52. *Simotes purpurascens* (Schleg.). Nat. size. Side view of head.

square; one or two praecoculars; one or two suboculars and two or three postoculares; temporals $2 + 2$ or $2 + 3$; eight upper labials, fourth and fifth or fifth only entering the eye; four or five lower labials in contact with the anterior chin-shields; latter almost twice as long as the posterior. Scales in 19 or 21 rows; ventrals 160—210, with lateral angle; anal entire; subcaudals 40—60.

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Purple or brown above, with dark, black-edged, wavy bands or with yellowish transverse bands; a large, pointed, dark brown marking on the occiput and nape, the point on the frontal, often confluent with a dark band, passing through the eyes; a dark oblique streak on the temporal region. Lower surface yellowish, pinkish or coral-red with square dark spots. Young specimens greyish with about 14 black transverse bands, broadest on the middle of the back and edged with light, the broad interspaces with 5 narrow black wavy bands. Head with usual black markings. Total length 950 mm.

**Habitat:** Nias!; Mentawei Islands (Sipora); Sumatra (Sabang on Pulu Weh!, Atjeh, Labuan, Deli!, Indragiri, Djambi!, Bunga Maas, Gunung Sahilan!, Palembang); Borneo (Labuan, Saiap on Mt. Kina Balu, Saribas, Kuching, Pangkalan ampat, Matang, Kidi district, Paku, Penrissen Road, Buntok, Samarinda!); Java! (Tengger Mts. 1200 M.). — Singapore; Penang; Malay Peninsula; Siam; Cochin China; S. China.

**Note.** *Simotes phaenochalinus* Cope is mentioned from Java (?) in Boulenger’s Catalogue II p. 225. This locality does not seem probable, as the species occurs in the Philippines only. No recent publication about the Reptiles of the Sunda Islands enumerates *S. phaenochalinus* among the snakes of Java.

**26. Oligodon** Boie.

*(Boie, Isis, p. 519, 1827).*

Head short, not distinct from neck; eye small; pupil round; internasals present or absent. Maxillary teeth 6—8, posterior strongly enlarged; pterygoid toothless; palatines toothless or with two or three teeth. Body round, covered with smooth scales in 15 or 17 rows; ventrals rounded or with an obtuse lateral keel. Tail short; subcaudals in two rows.

**Distribution.** S. E. Asia; Syria; Lower Egypt.

**Key to the Indo-Australian species.**

* A. Scales in 17 rows.
  I. Internasals present; anal entire.
    a. Two postoculars; subcaudals 30—46 . . . 1. *O. bitorquatus* p. 128.
    b. One postocular; subcaudals 52—62 . . . . 2. *O. trilineatus* p. 129.
  II. Internasals absent; anal divided . . . . . . . 3. *O. durheimi* p. 129.
B. Scales in 15 rows.

I. Anal entire.
   a. Nasal divided.
      1. Internasals in contact .......... 4. O. everetti p. 130.

II. Anal divided.
   a. No internasals.
      1. Nasal divided; two postoculars; subcaudals 30 .......... 7. O. pulcherrimus p. 132.
   b. A pair of internasals.

1. Oligodon bitorquatus Boie.

*Oligodon bitorquatus*, Boie, Isis 1827, p. 519.

*Oligodon bitorquatus*, Boulenger, Cat. Sn. II 1894, p. 237 (s. syn.).

Rostral visible from above; nasal divided; suture between the internasals shorter than that between the praefrontals; frontal longer than its distance from the tip of the snout, as long as or shorter than the parietals; loreal more long than

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Fig. 53. *Oligodon bitorquatus* Boie. Nat. size. Side view of head; ventral shields.
deep or absent; one prae- and two postoculars; temporals \(1 + 2\) or \(2 + 2\); seven upper labials, third and fourth entering the eye; three or four lower labials in contact with the anterior chin-shields; latter almost twice as long as the posterior. Scales in 17 rows; ventrals 140—165; anal entire; subcaudals 30—46.

Purple or dark brown above, with small yellow or red spots; often a median series of larger spots; head with symmetrical dark markings and one or two yellowish bands, the posterior on the occiput. Lower surface red, with quadrangular or transverse black spots. Length of head and body 303 mm.; tail 67 mm.

Habitat: Java (Gadok, Gunung Pengalengan 4000 feet and Tjisurupan, Batavia, Krawang!, Buitenzorg!, Mt. Salak, Mt. Gedeh 4500 feet, Tjibodas 1425 M., Gunung Ungaran!, Salatiga!, Ambarawa, Mt. Wilis 5000 feet, Kediri!, Tengger Mts. 1200 M.); Ambon?

2. Oligodon trilineatus (Dum. & Bibr.).


Oligodon trilineatus, Boulenger, Cat. Sn. II 1894, p. 238.

Rostral visible from above; nasal divided; suture between the internasals about as long as that between the prefrontals; frontal longer than its distance from the tip of the snout, as long as the parietals; loreal more long than deep; one pre- and one postocular; temporals \(1 + 2\) or \(2 + 2\); seven upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter almost twice as long as the posterior. Scales in 17 rows; ventrals 145—157; anal entire; subcaudals 52—62.

Dark brown or black above; a yellow (red) vertebral stripe and a fine light line along each side; head yellowish-brown with dark oblique bands, not continuous on the crown. Lower surface blackish; a white line along each side. Length of head and body 250 mm.; tail 80 mm.

Habitat: Nias!; Sumatra (Manindjau!).

3. Oligodon durheimi Baumann.

Oligodon durheimi, Baumann, Zool. Jahrb. Syst. XXXIV 1913, p. 269, fig. C.

Rostral visible from above; nasal divided; internasals absent;

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1) A young specimen preserved in the British Museum.
praefrontals large; frontal longer than its distance from the tip of the snout, as long as the parietals; loreal more deep than long; one prae- and two postoculars; temporals $1 + 2$; seven upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter more than twice as long as the posterior. Scales in 17 rows; ventrals 174; anal divided; subcaudals 41.

Olive or brown above, with a median dark, black-edged band, widening on the nape and enclosing light, black-edged spots; neck with an oblique black spot on each side, beginning on the parietals; head with a dark crescent-shaped band, passing through the eyes and confluent on the frontal with the median band of the back. Lower surface yellow with black transverse spots; a median reddish longitudinal line, most distinct posteriorly, covering the greater part of the subcaudals. Length of head and body 314 mm.; tail 54 mm.

Type-specimen received from the Bern Museum, examined.

Habitat: Sumatra (Battak Highlands 800—1000 M.).

4. Oligodon everetti Boulenger.


Rostral visible from above; nasal divided; suture between the internasals shorter than that between the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal small, more long than deep; one prae- and two postoculars; temporals $1 + 2$; seven upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 15 rows; ventrals 138—154; anal entire; subcaudals 46—65.

Grey above, with three blackish-brown stripes, the median one three scales wide and enclosing small yellowish spots; head brown with two black bands, the anterior passing through the eyes, the posterior across the frontal. Lower surface coral-red, the ventrals with black outer ends. Length of head and body 300 mm.; tail 70 mm.

Type-specimen examined in the British Museum.

Habitat: Borneo (Kina Balu!, Tandjong, Bandjermassin).
5. *Oligodon petronellae* Roux.


Rostral large; nasal large, divided; internasals well developed, separated by the rostral, which is in contact with the prae-frontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal more long than deep; one prae- and two postoculars; temporals 1 + 2; seven upper labials, third and fourth entering the eye; three or four lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 15 rows; ventrals 152; anal entire; subcaudals 19 + ?.

Greyish-brown above, with dark brown markings, some of them bordered with light spots; a brown spot on the hind part of the parietals, divided into two parallel bands on the nape and along the back, which form posteriorly lozenge-shaped markings; about 21 of those markings, some bordered with white spots; head with a dark brown transverse band across the snout, a large spot on the frontal, another on the parietals and continued obliquely along each side of the neck; upper labials spotted with black. Lower surface brick-red, every second ventral with dark brown spots near the outer ends; tail almost entirely red below. Length of head and body 408 mm.; tail (broken) 42 mm.

Type-specimen received from the Genève Museum, examined.

Habitat: Sumatra !.

Note. Dr. Jean Roux of Basle had described this new species under the name of *O. ornatus*, when he became aware that this name was used already for a snake of Formosa (Van Denburgh, Proc. Cal. Acad Sc. III 1910, p. 53). So at his request it has been changed into the one put above this description.


*Oligodon propinquus*, Boulenger, Cat. Sn. II 1894, p. 240.

Rostral visible from above; nasal entire; suture between the internasals longer than that between the prae-frontals; frontal longer than its distance from the tip of the snout, as long as the parietals; loreal small, more long than deep; one prae-
and two postoculars; temporals I + 2; seven upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 15 rows; ventrals 140; anal entire; subcaudals 27.

Black above, with yellow dots; a series of yellow spots along the back. Lower surface whitish. Length of head and body 245 mm.; tail 40 mm. (Not seen by me).

Habitat: Java.

7. Oligodon pulcherrimus Werner.


Rostral visible from above; nasal divided; no internasals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal small, a little more long than deep; one prae- and two postoculars; a long anterior temporal with a second one under its posterior part; seven upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 15 rows; ventrals 179; anal divided; subcaudals 30.

Brown above, with a dark longitudinal band beginning on the frontal, widening on the nape and enclosing 36 light brown, black-edged, hexagonal spots; sides bluish-grey, spotted with black and white near the ventrals; head brown with a dark brown crescent-shaped band between the eyes on the prae-frontals, supraoculars and frontal; an oblique band from the anterior part of the parietals to the corner of the mouth, continued and widened on the neck; a dark spot on the rostral, below the nostril, below the eye and on the suture between the fifth and sixth upper labials. Lower surface yellow, the outer ends of the ventrals alternatively spotted with black and white; mental with a black spot and black posterior border; first lower labials edged with dark posteriorly; chin-shields and anterior ventrals spotted with black. Length of head and body 325 mm.; tail 42 mm. (After Werner; not seen by me).

Habitat: Sumatra (Pudang in district Bobangan).

8. Oligodon praefrontalis Werner.


Rostral visible from above; nasal entire; no internasals; prae-
frontal fused with loreal and touching the second upper labial; one prae- and one postocular; temporals 1 + 2; seven upper labials, third and fourth entering the eye. Scales in 15 rows; ventrals 193; anal divided; subcaudals 37.

Greyish-brown above, with a yellowish-brown median band, covering the vertebral row of scales and the next half. Lower surface yellowish-white; outer end of the ventrals alternatively light and dark. Length of head and body 210 mm.; tail 31 mm. (After WERNER; not seen by me).

Habitat: Pulu Weh (Sabang).

9. Oligodon vertebralis (Günther).

_Oligodon vertebralis_, Boulenger, Cat. Sn. II 1894, p. 245, pl. XI, fig. 2.

Rostral visible from above; nasal divided; suture between the internasals longer than that between the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal small, square; one prae- and two postoculars; temporals 1 + 2; seven upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter about twice as large as the posterior. Scales in 15 rows; ventrals 154; anal divided; subcaudals 54.

Brown above, with small yellow, black-edged spots, largest on the vertebral line; head yellowish, with two brown, black-edged bands, the anterior passing through the eyes; the posterior across the frontal. Lower surface yellowish; throat brown-spotted. Length of head and body 270 mm.; tail 75 mm.

Type-specimen examined in the British Museum.

Habitat: Borneo (Kina Balu!, Bandjermassin!).

10. Oligodon waandersi (Bleeker).

_Oligodon waandersi_, Boulenger, Cat. Sn. II 1894, p. 245; pl. XI, fig. 3; Proc. Zool. Soc. 1897, p. 221.

Rostral visible from above; nasal entire or partly divided; suture between the internasals as long as or longer than that between the praefrontals; frontal longer than its distance from the tip of the snout, as long as or shorter than the parietals; loreal small or absent; one prae- and two postoculars; tem-
134

porals 1 + 2; seven upper labials, third and fourth entering the eye; three or four lower labials in contact with the anterior chin-shields; latter as long as or longer than the posterior. Scales in 15 rows; ventrals 134—163; anal divided (very rarely entire); subcaudals 21—28.

Orange, red, brown or black above, with or without small yellow or orange, dark-edged spots, sometimes in pairs or forming transverse series; often a yellow collar; a yellow or reddish vertebral stripe posteriorly; head with a dark brown transverse band on the occiput; a dark oblique streak below the eye. Lower surface yellowish-white or pinkish, with or without grey dots or black spots; often a black stripe along the outer ends of the ventrals. Length of head and body 310 mm.; tail 45 mm.

N o m. i n d i g. Baluntete (Toradja-name).

H abitat: Celebes (Pinogo in Bone Valley! (types of *Oligodon taeniurus*), Masarang, Tomohon, Rurukan, Minahassa, Posso!, Boni).

27. *Elapoides* Boie.

(Boie, Isis, p. 519, 1827).

Head not distinct from neck; eye small; pupil round; nostril large, between two nasals, posterior nasal concave; praeocular absent, loreal and praefrontal entering the eye. Maxillary teeth about 20, small, equal; mandibular teeth about equal. Body round, slender, covered with lanceolate keeled scales, without pits, in 15 rows; ventrals rounded. Tail long; subcaudals in two rows.

Distribution. Sumatra; Java.

A single species.

1. *Elapoides fuscus* Boie.

*Elapoides fuscus*, Boie, Isis 1827, p. 519.


Snout short and broad, rounded; rostral more broad than deep, visible from above; suture between the internasals as long as or shorter than that between the praefrontals; frontal as broad as long or more broad, shorter than the parietals; supraocular very small; no praeocular, loreal and praefrontal entering the eye; a small postocular; temporal narrow, long; six upper
labials, third and fourth entering the eye, fifth large; three or four lower labials in contact with the anterior chin-shields; latter as long as posterior. Scales in 15 rows, strongly keeled; ventrals 146—158; anal entire; subcaudals 74—91.

Dark brown above, or brown with yellow spots, or yellow anteriorly with a dark brown vertebral stripe and dark spots on each side, dark brown posteriorly. Lower surface yellow, brownish on the tail. Length of head and body 350 mm.; tail 120 mm.

Habitat: Sumatra; Java (Buitenzorg!, Sindanglaia 5000 feet, Sukabumi!, Tjibodas, Mt. Wilis 5000 feet, Nongkodjadjar in Tengger Mts. 1300 M.!).

A mountain form, not uncommon at an elevation of above 3000 feet.

28. **Hydrablabes** Boulenger.


Head small, not distinct from neck; eye small; pupil round; nostril valvular, an oblique slit between two nasals; three pair of chin-shields. Maxillary teeth small, equal, about 18; mandibular teeth small, equal. Body long, round, covered with
smooth scales, without pits, in 15 or 17 rows; ventrals rounded. Tail moderate; subcaudals in two rows.

Distribution. Borneo.

Key to the Indo-Australian species.

A. Scales in 17 rows; two praefrontals . . . . . . . . 1. *H. periops* p. 136.
B. Scales in 15 rows; a single praefrontal. . . . . . 2. *H. praefrontalis* p. 137.

I. *Hydrablabes periops* (Günther).


Snout short and broad; rostral just visible from above; internasals not half as large as the praefrontals, usually in contact with the loreal; frontal more than twice as broad as the supraocular, as long as its distance from the tip of the snout, much shorter than the parietals; loreal more long than deep; two prae-, two post- and two or three suboculars; temporals 1 + 2; eight or nine upper labials, all separated from the eye; three pair of chin-shields, second largest and separating the third. Scales in 17 rows; ventrals 190—209, the last divided; anal divided; subcaudals 62—74.

Fig. 55. *Hydrablabes periops* (G thr.). Nat. size. Side view of head.
Olive-brown above, with a yellow streak along each side of the body anteriorly, sometimes indistinct; sides darker. Lower surface whitish, ventrals edged with black, subcaudals black, edged with white. Length of head and body 436 mm.; tail 95 mm.

**Habitat:** Borneo (Matang, Landak!).

2. *Hydrablabe praefrontalis* (Mocq.).


Differing from the preceding species on the following points: Praefrontals fused into a single shield; scales in 15 rows; ventrals 178—202; subcaudals 72.

Olive-brown above, with a dark vertebral stripe, sometimes indistinct and two black dorso-lateral lines, broken up into spots posteriorly. Lower surface yellow, the outer edge of each ventral dark brown; subcaudals edged with brown; a dark median line along the tail. Length of head and body 346 mm.; tail 90 mm.

Type-specimen examined in the Paris Museum.

**Habitat:** Borneo (Kina Balu!).


Head not or scarcely distinct from neck; eye small or moderate; pupil round; nasal entire or divided; loreal present or absent. Maxillary teeth small, equal, 15—30; mandibular teeth about equal. Body round, slender, covered with smooth or feebly keeled scales without pits, in 13 to 17 rows; ventrals rounded. Tail long; subcaudals in two rows.

**Distribution.** S. E. Asia; Japan.

**Key to the Indo-Australian species.**

*A.* Scales in 15 rows.


*B.* Scales in 13 rows.


1. Ablabes tricolor (Schlegel).

_Herpetodryas tricolor_, Schlegel, Phys. Serp. 1837, p. 187, pl. VI, fig. 16—18.  
_Ablabes tricolor_, Boulenger, Cat. Sn. II 1894, p. 281 (s. syn.).

Snout long, depressed, two times as long as the diameter of the eye. Rostral more broad than deep, visible from above; nasal entire; internasals as long as or shorter than the prefrontals, which are in contact with the second and third labials; no loreal; frontal as long as its distance from the tip of the snout, shorter than the parietals, not broader than the supraocular; one pre- and two postoculatrs; temporals 1 + 2; eight upper labials, fourth and fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 15 rows, smooth; ventrals 140—187; anal divided; subcaudals 103—137.

Olive or greenish above; a black streak on each side of the head and anterior part of the body, passing through the eye; upper lip yellowish-white. Lower surface yellowish-white; a pale olive streak along each side of the belly. Length of head and body 340 mm.; tail 220 mm.

_Habitat:_ Nias; Sumatra (Labuan, Deli, Asahan, Bunga Maas); Banka!; Java (Buitenzorg!, Tengger Mts. 1200 M.); Borneo (Matang, Montrado, Singkawang!, Pontianak). — Singapore; Penang; Malay Peninsula.

2. Ablabes libertatis (Barbour).


Rostral as broad as deep, visible from above; nasal divided; internasals shorter than the prefrontals, which are in contact with the supraoculars; frontal a little longer than its distance from the tip of the snout, longer than the suture between the parietals, broader than the supraocular; two loreals, the anterior square, the posterior lower and narrower; one pre- and two postoculatrs, upper twice as large as lower; temporals 2 + 2; eight upper labials, fourth and fifth entering the eye, seventh largest; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 15 rows, smooth; ventrals 173; anal divided; subcaudals 109 (tip of tail broken).

Uniform slate colour above, lighter below. Length of head and body? (After Barbour; not seen by me).  
_Habitat:_ Java (Buitenzorg).
3. **Ablabes baliodirus** (Boie).

*Coronella baliodira*, Boie, Isis, 1827, p. 539.
*Ablabes baliodirus*, Boulenger, Cat. Sn. II 1894, p. 283.

Rostral more broad than deep, visible from above; nasal divided; internasals shorter than the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal small; one or two praeye- and two postoculars; temporals 1 + 2; seven upper labials, third and fourth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter as long as or shorter than the posterior.

Fig. 56. *Ablabes baliodirus* (Boie). Nat. size. Side view of head.

Scales in 13 rows, smooth; ventrals 115—137; anal divided; subcaudals 42—75.

Brown above, with or without small, black-edged, yellow spots; sometimes with blackish transverse bands or two series of large, alternate black spots anteriorly, or with two light, dark-edged streaks along the body and another on the nape; head sometimes yellowish; lips yellowish with black sutures. Lower surface yellowish or coral-red, the outer ends of the shields usually brown and sometimes with a black dot; lower part of tail sometimes with a black median line. Length of head and body 275 mm.; tail 125 mm.

**Habitat**: Nias; Sumatra (Labuan, Deli!, Djambi!, Kertadjaja in Palembang, Manindjau!, Indrapura, Padang); Natuna
Islands; Borneo (Kina Balu, Pangkalan ampat, Kuching, Saribas, Kidi district, Baram, Kutei); Java (Anjer, Pandeglang, Batavia, Buitenzorg, Salak, Sukabumi!, Ambarawa, Willis Mts. 5000 feet, Ngawi, Tengger Mts. 1200 M.). — Penang; Malay Peninsula.


Ablabes longicauda, Boulenger, Cat. Sn. II 1894, p. 284.

Rostr al more broad than deep, visible from above; nasal divided; internasals as long as or shorter than the prefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; loreal small, sometimes confluent with the posterior nasal; one or two prea- and two postoculars; temporals 1+2; eight (seven) upper labials, third to fifth (third and fourth) entering the eye; four lower labials in contact with the anterior chin-shields; latter a little longer than the posterior. Scales in 13 rows; ventrals 110—122; anal divided; subcaudals 77—103.

Dark brown or black above, with five orange longitudinal lines, disappearing on the posterior part of the body; the vertebral line beginning behind the nape, the dorso-laterals widening in front, descending obliquely with black borders towards the throat; a yellow chevron-shaped collar, pointing backwards, the point confluent with the vertebral line; the black of the head continued on the temple as a triangular spot; eye bordered with black; upper lip yellowish with a few black spots. Lower surface red, a brown spot at the outer end of each ventral. Length of head and body 260 mm.; tail 170 mm.

Habitat: Sumatra (Deli, Kaju tanam (type of Diadophis bipunctatus Lidth)!); Borneo (Rejang river, Mt. Batu song, Busau, Baram, Matang, Bidi, Kidi district in Sarawak!); Java (Sukabumi!). — Penang; Malay Peninsula.

30. Oreocalamus Boulenger.


Head not distinct from neck; eye small; pupil round; nostril between a nasal and the first upper labial; internasals present;
loreal present. Maxillary teeth about 10, nearly equal; mandibular teeth subequal. Body round, covered with smooth scales without pits, in 17 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. Borneo.

A single species.

1. Oreocalamus hanitschi Boulenger.


Snout pointed; rostral as deep as broad, visible from above; internasals longer than its distance from the tip of the snout, shorter than the parietals; nostril close to the rostral, between the nasal and the first labial; loreal more long than deep, wedged in below between the second and third labials; one prae- and one postocular; temporals 1 + 2; eight upper labials, fourth and fifth entering the eye, seventh largest; four lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 17 rows; ventrals 127; anal entire; subcaudals 26.

Blackish-brown above. Lower surface yellownish-white with a few scattered brown dots; outer ends of ventrals blackish; tail brown beneath with a dark median streak. Length of head and body 325 mm.; tail 50 mm. (After BOULENGER; not seen by me).

Habitat: Borneo (Mt. Kina Balu 4200 feet).

Only one specimen known.

31. Idiopholis Mocquard.

(MOCQUARD, Le Naturaliste p. 35, 1892).

Head not distinct from neck; eye very small; pupil round; nostril between two scales; internasals small; an azygous shield
separating the internasals, present or absent; no supraocular; loreal, praeocular and anterior temporal absent. Maxillary teeth numerous, small and equal. Body round, covered with smooth scales without pits, in 15 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. Borneo.

Key to the Indo-Australian species.

A. A small shield separating the internasals; a broad yellowish collar. ........................................ 1. *Idiopholis collaris* p. 142.

B. No shield between the internasals; no yellow collar. 2. *I. everetti* p. 142.

1. *Idiopholis collaris* Mocquard.


*Idiopholis collaris*, Boulenger, Cat. Sn. II 1894, p. 327.

Snout obtuse, short; rostral narrow, more deep than broad; frontal more broad than long, as long as the praefrontals, half as long as the parietals; internasals small, separated by a small shield; supraoculars, loreals, praeoculars and temporals absent; six upper labials, third and fourth entering the eye, fifth largest and in contact with the parietal; anterior chin-shields longer than the posterior.

Scales in 15 rows; ventrals 127; anal entire; subcaudals 28. Dark brown above; a broad yellowish-white collar behind the parietals. Lower surface lighter brown. Total length 190 mm. (After MOCQUARD; not seen by me).

Habitat: N. E. Borneo (Sebruang Valley).

2. *Idiopholis everetti* Shelford.


Snout obtuse, short; rostral narrow, more deep than broad;
frontal more broad than long, as long as the praefrontals, less than half as long as the parietals; internasals small; no azygous shield separating the latter; supraoculares, loreals, praecooculares and temporals absent; two postoculares; six upper labials, third and fourth entering the eye, fifth largest, in contact with the parietal; three lower labials in contact with the anterior chin-shields; latter slightly longer than the posterior. Scales in 15 rows; ventrals 133; anal entire; subcaudals 25.

Uniformly dark bluish grey; head and neck slightly paler below. Length of head and body 137 mm.; tail 18 mm.

Type-specimen examined in the British Museum.

Habitat: N. Borneo (Sawa!).

32. Agrophis F. Müller.


Head small, not distinct from neck; eye very small; pupil round; nostril between two nasals, the anterior nasal very small; praecoocular and temporals absent; loreal and praefrontal entering the eye; internasals and supraoculares very small. Maxillary teeth 14, about equal; mandibular teeth decreasing in size posteriorly. Body round, covered with smooth scales without pits, in 15 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. Borneo; Celebes.

Key to the Indo-Australian species.

A. Five upper labials.

I. Ventrals 139—164; subcaudals 36—40 . . . . 1. A. sarasinorum p. 143.
II. Ventrals 113; subcaudals 26 . . . . . . . . 2. A. saravacensis p. 144.

B. Six upper labials; ventrals 141; subcaudals 43 . 3. A. albounuchalis p. 144.

1. Agrophis sarasinorum F. Müller.

Agrophis sarasinorum, F. Müller, op. cit., with text-fig.

Snout long, obtusely pointed; rostral large, visible from above; internasals small; praefrontals twice as long as the nasals; frontal large, rhomboidal, as long as its distance from the tip of the snout, shorter than the parietals; supraocular very small; no praecocular; loreal and praefrontal entering the eye; postocular minute; five upper labials, third and fourth
entering the eye, fifth largest; three lower labials in contact with the anterior chin-shields; mental not quite touching the anterior chin-shields; latter slightly shorter than the posterior. Scales in 15 rows; ventrals 139—164; anal entire; subcaudals 36—40. Tail pointed.

Blackish-brown above, iridescent. Lower surface whitish, the shields darker at the base.

**Habitat:** Celebes (Sudara Volcano 4450 feet, Lokon Volcano 5150 feet, Masarang Volcano 4000 feet!).

2. *Agrophis saravacensis* Shelford.


Snout obtusely pointed; rostral large; praefrontals large, nearly as long as the frontal; latter large, rhomboidal, shorter than the parietals; supraocular and postocular very small; five upper labials, third and fourth entering the eye, fifth largest; mental in contact with the anterior chin-shields; three lower labials in contact with the latter, which are longer than the posterior. Scales in 15 rows; ventrals 113; anal entire; subcaudals 26. Tail pointed.

Dark brown, iridescent; a red blotch on each side of the head just above the angle of the jaw, and an irregular red band on the neck. Length of head and body 120 mm.; tail 22 mm.

**Habitat:** Borneo (Kuching in Sarawak!).

Only one specimen known.

3. *Agrophis albonuchalis* (Günther).


Snout pointed; internasals triangular, one fourth as large as the praefrontals, which enter the orbit; frontal large, more broad than long, pressing back the supraocular to the postero-
superior angle of the orbit; parietals as large as the anterior shields together; postocular minute; six upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; latter much longer than the posterior; fifth lower labial long and narrow. Scales in 15 rows; ventrals 141; anal entire; subcaudals 43. Tail pointed.

Deep black, with a broad, white collar, covering half of the occipitals and the neck. Length of head and body 196 mm.; tail 41 mm. (After Günther; not seen by me).

Habitat: Borneo (Baram in Sarawak).

33. Rhabdophidium Boulenger.

(Boulenger, Cat. Sn. II p. 328, 1894).

Head not distinct from neck; eye small; pupil round; nostril in a small nasal, which is in contact with or separated from the prefrontal; internasals present; temporals absent. Maxillary teeth 10—12, about equal; mandibular teeth subequal. Body round, covered with smooth scales without pits, in 15 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. Celebes.

A single species.

1. Rhabdophidium forsteni (Dum. & Bibr.).


Snout pointed; rostral more broad than deep, visible from above; internasals shorter than the prefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals, about twice as broad as the supraocular; prefrontal large, reaching the nasal or separated from it; one postocular; five or six upper labials, third and fourth entering the eye, fifth largest and in contact with the parietal; first lower labial in contact with its fellow behind the mental; three lower labials in contact with the anterior chin-shields; latter longer than the posterior. Scales in 15 rows; ventrals 137—160; anal entire; subcaudals 21—34.

Uniformly blackish above; upper lip pale brown or yellowish. Lower surface yellowish-white or brown, with or without a black median streak along the tail. Young specimens with Indo-australian Reptiles II.
yellow variegations. Length of head and body 390 mm.; tail 80 mm.

Habitat: Celebes! (Tomohon!, Rurukan).

34. Pseudorhabdium Jan.

Head not distinct from neck; eye small; pupil round; nasal very small; internasals small; loreal absent; praecocular small or absent; temporals absent; the parietals in contact with the labials. Maxillary teeth 10—12, equal; anterior mandibular teeth longer than posterior. Body round, covered with smooth scales without pits, in 15 rows; ventrals rounded. Tail short; subcaudals in two rows.


1. Pseudorhabdium longiceps (Cant.).

Pseudorhabdium longiceps, Boulenger, Cat. Sn. II 1894, p. 329.

Snout pointed; rostral small, as deep as broad, visible from above; internasals small; frontal as long as or shorter than its distance from the tip of the snout, shorter than the parietals, more than twice as broad as the supraocular; praecocular small
or absent; one postocular; no temporals; five upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; latter in contact with three lower labials and about twice as large as the posterior. Tail pointed. Scales in 15 rows; ventrals 129 — 146; anal entire; subcaudals 10 — 28.

Brown or black above, iridescent; a yellow collar sometimes present and a yellow vertical spot above the angle of the mouth. Lower surface dark brown, ventrals and outer scales with pale brown posterior border. Length of head and body 195 mm.; tail 35 mm.

Habitat: Nias!; Sumatra (Deli!, Langkat, Indragiri, Sing-karah!, Gunung Sahilan!, Ajerbangis!); Borneo (Sarawak, Kuching, Penrissen Road, Simanggang, Sebruang Valley, Pontianak); Celebes (Macassar!). — Philippines; Malay Peninsula; Penang; Singapore.

35. **Brachyor rh us** Boie.

*(Boie, Isis, p. 519, 1827).*

Head not distinct from neck; eye small; pupil vertically elliptic; nasal small, single or divided; internasals sometimes fused; loreal absent; præocular present or absent. Maxillary teeth 20 — 22, equal; posterior mandibular teeth shortest. Body round, covered with smooth scales without pits, in 17 or 19 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. Java; Timor; Moluccas; New Guinea.

A single species.
1. Brachyorrhus albus (L.).

Coluber albus, Linne, Mus. Ad. Frid. 1754; p. 24, pl. XIV, fig. 2.

Brachyorrhus albus, Boulenger, Cat. Sn. 1 1893, p. 305 (s. syn.).

Snout obtusely pointed; rostral as deep as broad, visible from above; internasals as long as or shorter than the prefrontals, sometimes fused; frontal longer than its distance from the tip of the snout, shorter than the parietals, much broader than the supraocular; preocular distinct or fused with the prefrontal; two postoculcers; temporals 1 + 2 or 2 + 3; six or seven upper labials, third or fourth or third and fourth entering the eye; four lower labials in contact with the single pair of chin-shields. Scales in 17 or 19 rows; ventrals 146—182; anal divided (rarely entire); subcaudals 20—46.

Uniformly brown above; lower parts yellowish. Young specimens with an interrupted yellow band across the occiput; a brown median streak or series of spots along the belly and tail. Length of head and body 672 mm.; tail 87 mm.

Habitat: Java!; Borneo!; Timor!; Ternate; Halmahera!; Batjan!; Ceram!; Ambon!; Buru!; Haruku!; Banda; Aru Islands; New Guinea (Jobi, Amberbaki, Andai, Mt. Arfak).

36. Calamorhabdium Böttger.


Head not distinct from neck; eye small; pupil round; nostril between the nasal and the first upper labial; internasals, loreal,
praecocular and temporals absent. Maxillary teeth 13, about equal; mandibular teeth subequal. Body round, covered with smooth scales without pits, in 15 rows; ventrals rounded. Tail short, with an obtuse point; subcaudals in two rows.

Distribution. Batjan.
A single species.

1. Calamorhabdium kükenthali Böttger.


Snout pointed; rostral much more deep than broad, visible from above, separating the nasals; frontal as long as its distance from the tip of the snout, shorter than the parietals; internasals and praecocular absent; postocular small; temporals absent; five upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; latter in contact with three lower labials, longer than the posterior, which are in contact anteriorly. Scales in 15 rows; ventrals 125—140; anal entire; subcaudals 10—17.

Blackish-grey above, iridescent; the scales of the flanks with whitish centre; lips whitish; a broad, indistinctly bordered, whitish collar, interrupted in the middle. Lower surface whitish with blackish square spots and black posterior borders of the scales; a median black line along the tail. Length of head and body 195 mm.; tail 10 mm. (After BOTTGER; not seen by me).

Habitat: Batjan.

37. Calamaria Boie.


Head not distinct from neck; eye small; pupil round; nasal very small; internasals and loreal absent; præocular present or absent; temporals absent, parietals in contact with the labials. Maxillary teeth 8—11, about equal; anterior mandibular teeth longer than posterior. Body round, covered with smooth
scales without pits, in 13 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. From Assam and Burma to the Moluccas. Small, gentle snakes, living on the ground under stones and fallen trees; feeding on insects and worms.

N. Indig. Oraj surapari (Sund.).

Key to the Indo-Australian species.

A. Less than 300 ventrals.

1. Five or six upper labials.

AA. Frontal more long than broad.

1. Mental in contact with the chin-shields.

a. Frontal not twice so broad as the supraocular.

† Rostral more broad than deep.

aa. Diameter of the eye less than its distance from the mouth; ventrals 177—217; subcaudals 16—23.


bb. Diameter of the eye equal to its distance from the mouth; ventrals 147—210; subcaudals 15—26.


cc. Diameter of the eye more than its distance from the mouth.

× Frontal shorter than the parietals; uniformly brown or olive above; subcaudals 22—23.


×× Frontal shorter than the parietals; 6 whitish streaks on the body; subcaudals 19—21.


××× Frontal as long as the parietals; subcaudals 28.

5. C. baluensis p. 155.

†† Rostral as broad as deep.

aa. Frontal as long as the parietals.

1. Frontal one time and two thirds as long as broad; ventrals 187; subcaudals 20—22.


2. Frontal one time and one third as long as broad; ventrals 149—165; subcaudals 12—19.

7. C. margaritophora p. 156.

bb. Frontal shorter than the parietals; ventrals 126—144; subcaudals 25—30.

8. C. prakkei p. 156.
3. Frontal at least twice as broad as the supraocular.
† Frontal as long as the parietals
†† Frontal shorter than the parietals.

aa. Rostral more broad than deep.


10. Frontal more than twice as broad as supraocular.

10. Frontal twice as broad as supraocular; six white vertical spots on each side of the body anteriorly.

11. C. elegans p. 158.

12. C. simalurensis p. 159.


C. gracilis p. 159.

bb. Rostral as broad as deep.

1. Frontal four times as broad as the supraocular; ventrals 156—179; subcaudals 14—24.

C. acutirostris p. 160.

2. Frontal twice as broad as the supraocular.

Subcaudals white, 14; ventrals 154.

C. curta p. 160.

Subcaudals 11—21, with two white bands, enclosing a dark one; ventrals 130—187.

C. müller p. 161.

2. First lower labial in contact with its fellow.

a. A praecocular; a postocular.

Frontal not more than twice as broad as the supraocular.
† Diameter of the eye much more than its distance from the mouth.
†† Diameter of the eye not more than its distance from the mouth.

aa. Anal divided.

C. occipitalis p. 162.

bb. Anal entire.

First and second labials subequal.

1. Ventral 151—200; subcaudals 15—30.

C. virgulata p. 162.

2. Ventral 123—146; subcaudals 24—27.

C. lautensis p. 163.
1. Rostral almost as broad as deep; ventrals 133—151; subcaudals 12—23. 21. C. leucogaster p. 164.
2. Rostral as broad as deep; ventrals 178; subcaudals 26. 22. C. quinquetaeniata p. 164.
3. Rostral slightly more broad than deep; ventrals 247; subcaudals 14. 23. C. albobruchata p. 165.

XX. Frontal more than twice as broad as the supraocular.


b. A praecocular; no postocular. 29. C. lateralis p. 168.
d. No praecocular.

1. Ventrals 142; subcaudals 29; uniform yellowish inferiorly. 31. C. rebentischii p. 169.
2. Ventrals 150—152; subcaudals 22—23; tail with a dark median streak below. 32. C. caramensis p. 169.

BB. Frontal as broad as long.

† First lower labial in contact with its fellow.

aa. Rostral as broad as deep; ventrals 157; subcaudals 22. 34. C. picteti p. 170.

bb. Rostral more broad than deep.

1. Praecocular present; ventrals 136—171; subcaudals 19—45. 35. C. leucocephala p. 171.
2. No praecocular; ventrals 135—174; subcaudals 21—38. 36. C. agamensis p. 171.

cc. Rostral more deep than broad.


†† Mental in contact with the chin-shields.


II. Four upper labials, second and third entering the eye.

a. Frontal more long than broad.

† Mental in contact with the chin-shields.
X Praeocular present.

2. Tail obtuse; ventrals 152—192; subcaudals 17—22 ......... 42. *C. borneensis* p. 175.
3. Tail with a sharp point; ventrals 145—154; subcaudals 17—22 ... 43. *C. benjaminsi* p. 175.

XX No praeocular; ventrals 158—181; subcaudals 15—17 ... 44. *C. javanica* p. 176.

†† First lower labial in contact with its fellow; ventrals 133—182; subcaudals 9—27. 45. *C. pavimentata* p. 176.

b. Frontal as broad as long; mental in contact with the chin-shields; ventrals 133—182; subcaudals 16—24. ......... 46. *C. melanota* p. 177.

III. Four upper labials, third entering the eye. 47. *C. lowi* p. 177.

B. More than 300 ventrals; no postocular. ......... 48. *C. gracillima* p. 178.

1. *Calamaria lumbricoidea* Boie.


Diameter of the eye shorter than its distance from the mouth; rostral more broad than deep, visible from above; frontal more long than broad, shorter than the parietals, not twice so broad as the supraocular; one prae- and one postocular; five upper labials, the four anterior about equal, third and fourth entering the eye; mental in contact with the anterior chin-shields; both pairs of chin-shields in contact with each other. Scales in 13 rows; ventrals 177—217; anal entire; subcaudals 16—23. Tail ending in a point.

Dark brown above, with or without a yellowish band across the parietals. Lower surface whitish; tail usually with a median dark brown streak. Length of head and body 385 mm.; tail 35 mm.

Habitat: Nias; Sumatra!; Java! (Batavia, Buitenzorg, Tjibodas 1425 M., Volcano Tjisurupan); Celebes (Manado!).

2. *Calamaria vermiformis* Dum. & Bibr.

*Calamaria vermiformis*, Boulenger, *Cat. Sn.* II 1894, p. 333 (s. syn.).

Diameter of eye equal to its distance from the mouth; rostral
a little more broad than deep, visible from above; frontal more long than broad, not twice so broad as the supraocular, shorter than the parietals; one pre- and one postocular; five or six upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; posterior chin-shields in contact or separated. Scales in 13 rows; ventrals 147—210; anal entire; subcaudals 15—26. Tail ending in a point. Dark brown or black above, head often entirely or partially yellow; body sometimes with yellow transverse bars or series of spots; a lateral streak along the two outer rows of scales sometimes yellowish. Lower surface yellowish, with or without large transverse black spots or bands. Length of head and body 377 mm.; tail 33 mm.

Habitat: Sumatra (Labuan, Medan!, Langkat, Raja Mts., Battak Highlands 800—1000 M., Fort de Kock!, Kaju tanam!, Padang); Natuna Islands; Borneo (Kina Balu!, Bongon, Mt. Batu song, Baram, Kuching, Matang, Tandjong); Java! (Volcano Tjisurupan, Sukabumi!); Ternate. — Malay Peninsula.

3. Calamaria stahlknechti Stol.

*Calamaria stahlknechti*, Stoliczka, Journ. As. Soc. Beng. XLII 1873, p. 119, pl. XI, fig. 2.

*Calamaria stahlknechti*, Boulenger, Cat. Sn. II 1894, p. 335.

Diameter of eye greater than its distance from the mouth; rostral more broad than deep, visible from above; frontal more long than broad, not twice so broad as the supraocular, shorter than the parietals; one pre- and one postocular; five upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; posterior chin-shields separated. Scales in 13 rows; ventrals 147—163; anal entire; subcaudals 22—23. Tail ending in a point.

Brown or olive above; a yellowish collar, interrupted in the middle; yellow or red below, with or without black transverse spots or bands. Length of head and body 241 mm.; tail 24 mm.

Habitat: Nias!; Sumatra.

4. Calamaria indragirica Schenkel.


Diameter of eye about one time and a half as large as its distance from the mouth; rostral more broad than deep, visible
from above; frontal one time and a half as long as broad, not quite twice so broad as a supraocular, shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye, fifth much larger than the others; mental in contact with the anterior chin-shields. Scales in 13 rows; ventrals 149; anal entire; subcaudals 19—21.

Blackish above, with 6 white streaks, two superior beginning behind the head to the base of the tail, running between the fifth and sixth rows of scales; the middle one only distinct on the neck; the lower along the outer row of scales, bordered below by a black band. Lower surface yellowish; tail with a black median line. Length of head and body 137 mm.; tail 11 mm.

One of the type-specimens received from the Basle Museum, examined.

**Habitat:** Sumatra (Indragiri!).

5. *Calamaria baluensis* Boulenger.


Diameter of the eye much greater than its distance from the mouth; rostral slightly more broad than deep, visible from above; frontal nearly twice as long as broad, not twice so broad as a supraocular, as long as the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact with each other. Scales in 13 rows; ventrals 175—206; anal entire; subcaudals 24—29. Tail ending in a point.

Brown above, with small black spots; an interrupted black streak along each side of the head and neck, passing through the eye; upper lip white. Lower surface white, with three longitudinal series of small black spots, or ventrals black at the base; a dark median line along the tail. Length of head and body 307 mm.; tail 33 mm.

**Habitat:** N. Borneo (Kina Balu!, Saiap on Kina Balu).


*Calamaria grabowskyi*, Fischer, Arch. f. Nat. 1885, p. 50, pl. IV, fig. 1.


Diameter of the eye greater than its distance from the mouth;
rostral almost as deep as broad; frontal one time and two thirds as long as broad, not twice so broad as a supraocular, as long as the parietals; one praec- and one postocular; five upper labials, third and fourth entering the eye; mental and three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact with each other. Scales in 13 rows; ventrals 187; anal entire; subcaudals 20—22. Tail ending in a point.

Brown above, with small black spots; an interrupted dark lateral line anteriorly; outer row of scales black, white-edged, or with a white terminal spot. Lower surface black, the ventrals edged with white; tail with a black median line. Length of head and body 398 mm.; tail 32 mm.

Type-specimens examined in the British Museum.

Habitat: Borneo (Kina Balu!, Telang Tameanglayang in S. E. Borneo!).

7. Calamaria margaritophora Bleeker.

Calamaria margaritifera, Boulenger, Cat. Sn. II 1894, p. 336, pl. XVII, fig. 2.

Diameter of the eye equal to its distance from the mouth; rostral as deep as broad; frontal more long than broad, not twice so broad as a supraocular, nearly as long as the parietals; one praec- and one postocular; five upper labials, third and fourth entering the eye; mental and three lower labials in contact with the anterior chin-shields; posterior ones in contact or separated. Scales in 13 rows; ventrals 149—165; anal entire; subcaudals 12—19. Tail ending in a point.

Brown above, with longitudinal black lines or series of spots; outer row of scales with yellowish spots; head black above; a yellow vertical bar at the base of the tail. Lower surface yellowish. Length of head and body 267 mm.; tail 13 mm.

One of the type-specimens examined in the British Museum.

Habitat: Sumatra; Java.

8. Calamaria prakkei Lidth.

Calamaria prakkii, Boulenger, Cat. Sn. II 1894, p. 337.

Diameter of the eye equal to its distance from the mouth; rostral as deep as broad; frontal one time and a half as long
as broad, not twice so broad as a supraocular, shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye, fifth largest; mental in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 126—144; anal entire; subcaudals 25—30. Tail obtuse, with a conical scale at the end.

Dark brown above, with bluish gloss; scales of outer row with a light spot; sometimes indistinct black longitudinal lines on the back; an indication of a light collar present or absent; four anterior upper labials white, with dark sutures. Lower surface yellow, with or without small dark spots; tail with a median black line. Length of head and body 220 mm.; tail 40 mm.

Type-specimens examined in the Leiden Museum.

Habitat: Borneo (Sandakan Bay!).


Diameter of the eye greater than its distance from the mouth; rostral more broad than deep; frontal one time and two thirds as long as broad, three times as broad as a supraocular, as long as the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; mental and three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 135; anal entire; subcaudals 16. Tail ending in an obtuse point.

Dark brown above, with small round black spots; a black lateral streak along the second row of scales, outer row white; head dark brown, speckled with black; nape yellowish, with two large black blotches; tail with three or four yellow blotches on each side. Lower surface white, each ventral with a black dot at the outer end; subcaudals white, a black median line posteriorly. Length of head and body 165 mm.; tail 15 mm.

Type-specimen examined in the British Museum.

Habitat: S. Celebes 2000 feet!.


Diameter of the eye equals its distance from the mouth;
rostral slightly more broad than deep; frontal more long than broad, more than twice as broad as a supraocular, slightly shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 129—176; anal entire; subcaudals 12—31. Tail ending in a point.

Dark brown or reddish above, with five black longitudinal lines or series of spots; scales of the outer row with a white spot; nape with a yellow collar, sometimes interrupted in the middle; sometimes a yellow marking at the base of the tail. Lower surface yellowish; a black median line along the tail. Length of head and body 253 mm.; tail 12 mm.

Habitat: Sumatra (Medan!, Langkat, Gunung Sahilan!); Borneo (Kutei); Java (Sindanglaia in Preanger). — Singapore.

11. Calamaria elegans n. sp.

Diameter of the eye equals its distance from the mouth; rostral more broad than deep; frontal more long than broad, twice as broad as a supraocular, shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 133; anal entire; subcaudals 27. Tail ending in a point.

Brown above, with black spots in longitudinal series; outer row of scales with white spots, on the neck and anterior part of body six vertical white spots on each side. Lower surface yellow, each shield with a small brown spot on the outer

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Fig. 64. Calamaria elegans n. sp. Chin-shields. × 2 1/2.
ends; a dark median line along the tail. Length of head and body 167 mm.; tail 26 mm.

Type-specimen examined in the Amsterdam Museum.

Habitat: Simalur—W. off Sumatra!

12. *Calamaria simalurensis* n. sp.

Diameter of the eye one time and one third its distance from the mouth; rostral more broad than deep; frontal more long than broad, twice as broad as a supraocular, shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 136; anal entire; subcaudals 27. Tail ending in a point.

Dark brown above, with black spots in longitudinal series; outer row of scales with white spots, an indistinct narrow yellow collar on the nape, broadening on the sides. Lower surface yellow, each ventral (except the 9 anterior) and subcaudal with a dark brown triangular spot on the outer end. Length of head and body 229 mm.; tail 34 mm.

Type-specimen examined in the Amsterdam Museum.

Habitat: Simalur—W. off Sumatra!


Diameter of the eye equals its distance from the mouth; rostral slightly more broad than deep; frontal one time and a half as long as broad, twice as broad as a supraocular, much shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; mental and three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals
211—235; anal entire; subcaudals 10—13. Tail rounded at the end.

Grey-brown above, with small black spots; outer row of scales white, black at the base. Lower surface white, the outer edge of the ventrals black, and a continuous or interrupted median series of small black spots. Young specimens with interrupted yellowish collars. Length of head and body 312 mm.; tail 8 mm.

Type-specimens examined in the British Museum.

Habitat: S. Celebes (Bonthain Peak 6000 feet!, Bua Praeng).


Snout pointed; diameter of the eye hardly equals its distance from the mouth; rostral as deep as broad; frontal as long as broad or a little more long, four times as broad as a supraocular, much shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; mental and three lower labials in contact with the anterior chin-shields; posterior chin-shields smaller and separated by a scale. Scales in 13 rows; ventrals 156—179; anal entire; subcaudals 14—24. Tail ending in a point.

Blackish-brown above; white below. Length of head and body 207 mm.; tail 43 mm.

Type-specimens examined in the British Museum.

Habitat: S. Celebes (Loka-Bonthain Peak 3500 feet!, Bua Praeng).

15. Calamaria curta Boulenger.


Diameter of the eye greater than its distance from the mouth; rostral almost as deep as broad; frontal one time and two thirds as long as broad, twice as broad as a supraocular, much shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; mental and three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 154; anal entire; subcaudals 14. Tail ending in a point.
Olive-brown above, each scale with a black spot at the base; two outer rows of scales white, also black at the base; head dark brown with indistinct black variegations. Lower surface black, with white borders to the ventrals; subcaudals white. Length of head and body 300 mm.; tail 15 mm.

Type-specimen examined in the British Museum.

Habitat: S. Celebes 2000 feet!.


Diameter of the eye greater than its distance from the mouth; rostral as deep as broad; frontal much more long than broad, twice as broad as a supraocular, as long as or slightly shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; mental and three lower labials in contact with the anterior chin-shields; posterior chin-shields shorter, both pairs in contact. Scales in 13 rows; ventrals 130—187; anal entire; subcaudals 11—21. Tail ending in a point.

Dark brown above, uniform or spotted with black, reddish-brown or brick-red, the scales speckled and edged with black; a black streak on each side of the head, passing through the eye; upper lip white. Lower surface white, the ventrals spotted with black or edged with black or with vermilion or with a lateral series of black spots; a black or red band between two white ones along the tail below. Length of head and body 215 mm.; tail 20 mm.

Type-specimens examined in the British Museum.

Habitat: Celebes (Loka-Bonthain Peak 3500 feet!, Indrulaman 2000 feet, Bua Praeng, Luhu 1700 feet, between Lake Posso and Tomini gulf, Macassar?).

The specimens from Macassar referred by A. B. Meyer to Calamaria gervaisii will probably be found to belong to C. mülleri (Boulenger, Proc. Zool. Soc. 1897).

17. Calamaria everetti Boulenger.


Diameter of the eye much longer than its distance from the mouth; rostral more broad than deep; frontal one time and Indo-australian Reptiles II.
a half as long as broad, not twice so broad as a supraocular, shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 144—184; anal entire; subcaudals 16—24. Tail ending in a point.

Brown above, with longitudinal series of darker spots, forming two lines along each side; scales of outer row white with dark brown borders; head brown, with dark spots; sometimes a yellow collar. Lower surface whitish, uniform or with a median series of black dots; a dark line along the tail usually present. Length of head and body 312 mm.; tail 18 mm.

Habitat: Mentawei Islands (Siberut!); Borneo (Pangkalan ampat, Baram!, Sarawak). — Palawan!.


Calamaria occipitalis, Boulenger, Cat. Sn. II 1894, p. 342.

Diameter of the eye shorter than its distance from the mouth; rostral much more broad than deep; frontal more long than broad, one time and a half as broad as a supraocular, as long as the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 177—179; anal divided; subcaudals 20—21. Tail ending in a point.

Blackish above; two outer series of scales whitish; upper lip and a band across the occiput whitish. Lower surface whitish; a black median line along the tail. Length of head and body 460 mm.; tail 40 mm. (Not seen by me).

Habitat: Java.


Calamaria virgulata, Boie, Isis, 1827, p. 540.
Calamaria virgulata, Boulenger, Cat. Sn. II 1894, p. 340 (s. syn.).

Diameter of the eye equal to its distance from the mouth; rostral almost as deep as broad; frontal more long than broad, twice as broad as a supraocular, shorter than the parietals;
one prae- and one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 151—200; anal entire; subcaudals 15—30. Tail obtuse.

Dark brown or black above, with or without yellowish or small black spots, or yellow with brown spots. Lower surface black, uniform or with yellow markings, or yellow with black outer ends to the ventrals. Length of head and body 410 mm.; tail 30 mm.

Habitat: Sumatra (Mt. Singalang, Fort de Kock); Java (Buitenzorg! (types of C. bogorensis), Sindanglaia 3500—4500 feet, Pengalengan 4000 feet, Volcano Tjisurupan, Tjibodas 1425 M., Rarahan); Celebes (Manado, Lake Posso).

20. Calamaria lautensis n. sp.

Diameter of the eye equals its distance from the mouth; rostral about as broad as deep; frontal more long than broad, twice as broad as a supraocular, shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 123—146; anal entire; subcaudals 24—27. Tail ending in a point.

Brown or greyish above, with small darker spots; on the nape two or three white vertical spots, sometimes indistinct; a white streak on the posterior labials; outer row of scales with white spots. Lower surface yellow, each shield with a
small dark spot on the outer ends; a broad dark median line along the tail. Length of head and body 245 mm.; tail 33 mm.

Type-specimens examined in the Amsterdam Museum.

Habitat: Simalur!; Cocos Islands (Pulu si Laut N.W. off Simalur!).


*Calamaria leucogaster*, Boulenger, Cat. Sn. II 1894, p. 341.

Snout pointed; diameter of the eye equal to its distance from the mouth; rostral almost as deep as broad; frontal more long than broad, about twice as broad as a supraocular, shorter than the parietals; one prae- and one postocular; five or six upper labials, second larger than the first or third, third and fourth or fourth and fifth entering the eye; first lower labial in contact with its fellow behind the mental; three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 133—151; anal entire; subcaudals 12—23. Tail ending in a point.

Brown or purplish above, with eight dark longitudinal lines or traces of lines; nape blackish, followed by a yellow collar; upper lip yellow; a dark streak behind the eye; tail with two dark transverse spots. Lower surface uniformly yellow. Length of head and body 187 mm.; tail 13 mm.

One of the type-specimens examined in the British Museum.

Habitat: Sumatra (Ampatlawang!, Battak Highlands 800—1000 M.); Borneo (Kina Balu, Kuching, Matang, Sarawak!, Labuan).

22. Calamaria quinquetaeniata Despax.


Diameter of the eye two thirds its distance from the mouth; rostral as deep as broad; frontal more long than broad, twice as broad as a supraocular, shorter than the parietals; one prae- and one postocular; five upper labials, second larger than first, third and fourth entering the eye, fifth very large; first lower labial in contact with its fellow behind the mental; posterior chin-shields separated posteriorly by a scale. Scales in 13 rows; ventrals 178; subcaudals 26. Tail obtuse.

Pale brown above, with five bluish-black iridescent longi-
tudinal bands; on each side behind the head a yellowish spot, interrupting the lateral bands; two yellowish spots on the tail, the anterior on the base and a median dark line. Lower surface yellowish-white, each ventral and subcaudal with a black spot on the outer ends; a dark median line along the tail. Length of head and body 228 mm.; tail 27 mm. (After Despax; not seen by me).

Habitat: Dutch East Indies.


Diameter of the eye shorter than its distance from the mouth; rostral a little more broad than deep; frontal more long than broad, less than twice as broad as a supraocular, much shorter than the parietals; one prae- and one postocular; five upper labials, second and fifth largest, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 247; anal entire; subcaudals 14. Tail ending bluntly.

Dark brown above; two outer rows of scales with light centres; a light band on the occiput. Lower surface yellow with a few dusky markings; a blackish median line along the tail. Length of head and body? (After Barbour; not seen by me).

Habitat: Dutch East Indies.


Calamaria bicolor, Boulenger, Cat. Sn. II 1894, p. 342.

Diameter of the eye a little shorter than its distance from the mouth; rostral as deep as broad; frontal more long than broad, about three times as broad as a supraocular, almost as long as the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 143—152; anal entire; subcaudals 24—29. Tail ending in a point.

Black above; two outer rows of scales whitish; upper lip whitish. Lower surface whitish; tail with or without a black median line. Length of head and body 318 mm.; tail 57 mm.
Habitat: Borneo (Kina Balu!, Paku in Upper Sarawak, Singkawang).

25. Calamaria brookei Boulenger.


Diameter of the eye equals its distance from the mouth; rostral as deep as broad; frontal one time and one fourth as long as broad, three times as broad as a supraocular, much shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 147—155; anal entire; subcaudals 23. Tail obtusely pointed.

Yellowish-brown above, with five black stripes, the middle one broadest, covering one scale and two halves; outer row of scales yellowish-white, the upper part of the scales black; head marbled with black; a black collar and two black bands across the tail, the anterior at the base. Lower surface yellowish.

Length of head and body 197 mm.; tail 23 mm.

Type-specimen examined in the British Museum.

Habitat: Borneo (Matang!, Kidi district).


Diameter of the eye a little shorter than its distance from the mouth; rostral almost as deep as broad; frontal slightly more long than broad, more than twice as broad as a supraocular, much shorter than the parietals; one prae- and one postocular; five upper labials, first nearly three times as large as the second, third and fourth entering the eye; the first lower labial in contact with its fellow behind the mental. Scales in 13 rows; ventrals 154; anal entire; subcaudals 10. Tail obtuse.

Dark reddish-brown above, iridescent, with six dark longitudinal lines, distinct on the neck, indistinct on the body; the rows of scales separated by white lines; last row of scales with a lateral white line. Lower surface yellowish, blotched with angular dark markings; one median and two lateral black
lines along the tail. Length of head and body? (After Barbour; not seen by me).

Habitat: Java (Buitenzorg).

27. *Calamaria brachyura* Boulenger.


Diameter of the eye equals its distance from the mouth; rostral slightly more broad than deep; frontal more long than broad, more than twice as broad as a supraocular, shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye, fourth smallest; first lower labial in contact with its fellow behind the mental; three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 182—210; anal entire; subcaudals 9—19.

Dark grey-brown above, with six black longitudinal lines, disappearing anteriorly; two outer rows of scales black and white; nape with a narrow yellow transverse band; a similar band at the base of the tail; head black with a yellow spot on each praefrontal and parietal; upper lip white. Lower surface white, each ventral with a black spot at the outer end; a black median line along the tail. Length of head and body 284 mm.; tail 7 mm.

Type-specimen examined in the British Museum.  
Habitat: Borneo (Kina Balu!, Saiap on Kina Balu).


Diameter of the eye equals its distance from the mouth; rostral small, more broad than deep; frontal one time and one third to one time and a half as long as broad, twice as broad as a supraocular or more so, much shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 232—265; anal entire; subcaudals 10—30. Tail very obtuse.
Dark grey-brown above, with black dots or spots; scales of the outer row with a white centre; a yellowish collar, most distinct in the young. Lower surface yellowish-white, the ventrals spotted or edged with dark brown or with a median series of dark brown spots. Length of head and body 370 mm.; tail 10 mm.

Type-specimens examined in the British Museum.

**Habitat:** Celebes (Bone Mts., Tomohon, Rurukan 4000 feet!).


*Calamaria lateralis*, Mocquard, Le Natural. 1890, p. 154; Nouv. Arch. Mus. (3) II 1890, p. 136, pl. VIII, fig. 4.

*Calamaria lateralis*, Boulenger, Cat. Sn. II 1894, p. 342.

Diameter of the eye shorter than its distance from the mouth; rostral visible from above; frontal more long than broad, as long as the parietals; one preocular; postocular fused with the supraocular; five upper labials, third and fourth entering the eye, fifth largest; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 146; anal entire; subcaudals 21. Tail ending in a point.

Blackish-brown above; a white lateral line along the second and third rows of scales. Lower surface lighter brown. Length of head and body 233 mm.; tail 12 mm.

Type-specimen examined in the Paris Museum.

**Habitat:** Borneo (Kina Balu!).


*Calamaria beccarii*, Boulenger, Cat. Sn. II 1894, p. 343.

Rostral visible from above; frontal more long than broad; one preocular and two postoculars; five upper labials; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 150; anal entire; subcaudals 16.

Brown above, with six dark longitudinal lines. Lower surface dirty white; tail with a black median line on its posterior part. Length of head and body 169 mm.; tail 14 mm. (Not seen by me).

**Habitat:** Borneo (Sarawak).
31. Calamaria rebentischi Bleeker.

Diameter of the eye much shorter than its distance from the mouth; rostral more broad than deep; frontal slightly more long than broad, about twice and a half as broad as a supraocular, shorter than the parietals; no praecocular; one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 142; anal entire; subcaudals 29. Tail ending in an obtuse point.

Purplish-brown above; scales of the outer row with a white spot. Lower surface uniformly yellowish. Length of head and body 243 mm.; tail 37 mm.

Type-specimen examined in the British Museum.

Habitat: Borneo (Singkawang!).

32. Calamaria ceramensis de Rooy.

Diameter of the eye shorter than its distance from the mouth; rostral more broad than deep; frontal more long than broad, two times and a half as broad as a supraocular; no praecocular; one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 150—152; anal entire; subcaudals 22—23.

Purplish-brown above, with dark spots; scales of the outer row with a white spot; head grey; a yellowish collar running across the posterior points of the parietals. Lower surface yellowish; tail with a median black line. Length of head and body 222 mm.; tail 23 mm.

Type-specimen examined in the Amsterdam Museum.

Habitat: W. Ceram!.

33. Calamaria mecheli Schenkel.

Diameter of the eye about three fourths its distance from the mouth; rostral as broad as deep; frontal slightly more
long than broad, nearly three times as broad as a supraocular, much shorter than the parietals; no praeocular; one postocular; five upper labials, third and fourth entering the eye, fifth longest; first lower labial in contact with its fellow behind the mental; posterior chin-shields posteriorly separated by a scale. Scales in 13 rows; ventrals 187—194; anal entire; subcaudals 14—16.

Light brown above; scales with dark borders; a vertebral row of elongate black spots and on each side two dark brown longitudinal stripes, the lower covering the two outer rows of scales; ventral part of the outer row whitish; head brown, white-speckled behind the eyes; lips light, this colour continued on the temporal region; base of tail with a light, sometimes interrupted transverse band. Lower surface light, with or without irregular dark dots along the median line; outer ends of the ventrals dark brown; anal brown. Length of head and body 200 mm.; tail 10 mm.

Type-specimen received from the Basle Museum, examined. H a b i t a t : Sumatra (Indragiri!).

34. *Calamaria picteti* Peracca.


Diameter of the eye shorter than its distance from the mouth; rostral as broad as deep; frontal as broad as long, four times as broad as a supraocular, shorter than the parietals; one prae- and one postocular; six upper labials, third and fourth entering the eye, fifth largest; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields in contact, the anterior nearly twice as long as the posterior. Scales in 13 rows; ventrals 157; anal entire; subcaudals 22. Tail obtuse.

Light brown above, darker on the head, with 31 black transverse spots on the back, largest anteriorly and some white scales; tail with 3—6 black spots, more or less confluent; upper lip with small black spots, a larger one on the fourth and fifth labials; irregular spots on the temporal region; flanks with a black line, formed by small black spots, anteriorly between the ventrals and the outer row of scales, posteriorly between the two outer rows. Lower surface dirty white. Length
of head and body 139 mm.; tail 15 mm. (After PERACCA; not seen by me).

Habitat: Borneo (Sarawak).
(See note sub N°. 37).

35. Calamaria leucocephala Dum. & Bibr.

Calamaria leucocephala, Boulenger, Cat. Sn. II 1894, p. 344 (s. syn.).

Diameter of the eye much shorter than its distance from the mouth; rostral much more broad than deep; frontal as broad as long, four times as broad as a supraocular, shorter than the parietals; one praec- and one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields usually in contact. Scales in 13 rows; ventrals 136—171; anal entire; subcaudals 19—45. Tail ending in a point.

Dark brown or black above; head lighter or yellowish. Lower surface yellowish or red; tail sometimes with a faint brown median line. Length of head and body 402 mm.; tail 48 mm.

Habitat: Sumatra (Gambir!, Deli, Battak Highlands 800—1000 M., Supat and Dawas in Palembang, Padang 1500—3000 feet); Borneo (Kuching, Matang, Samarinda!); Java (Salak, Sukabumi!). — Singapore; Penang; Malay Peninsula.

36. Calamaria agamensis Bleeker.

Calamaria agamensis, Boulenger, Cat. Sn. II 1894, p. 343.

Diameter of the eye much shorter than its distance from the mouth; rostral more broad than deep; frontal at least as broad as long, at least four times as broad as a supraocular, shorter than the parietals; no praecocular; one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; posterior chin-shields usually separated. Scales in 13 rows; ventrals 135—174; anal entire; subcaudals 21—38. Tail ending in a point.

Black above; yellow below, often with a brown median line along the tail. Length of head and body 247 mm; tail 43 mm.

Habitat: Sumatra; Borneo (Singkawang); Java (Batavia, Salak, Sukabumi!, Nongkodjadjar in Tengger Mts. 1300 M.!).
37. **Calamaria semiannulata** Böttger.

*Calamaria semiannulata*, Böttger, Katalog Rept. Senckenb. Mus. II 1898, p. 84.

Diameter of the eye much shorter than its distance from the mouth; rostral more deep than broad; frontal as long as broad, about three times as broad as a supraocular, much shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the mental; posterior chin-shields in contact anteriorly. Scales in 13 rows; ventrals 140; anal entire; subcaudals 27. Tail ending obtusely.

Reddish-yellow above, with 26 dark brown transverse bands or broad spots, about as broad as the interspaces; the spot on the nape broadest; each scale of the outer row with a brown spot; head brown above, with an oblique dark brown streak behind the eye and another behind the angle of the mouth. Lower surface uniformly light reddish-yellow. Length of head and body 175 mm.; tail 25 mm. (After Böttger; not seen by me).

**Habitat:** Borneo.

**Note.** In Zoological Record 1899, Reptiles p. 22 *C. picteti*, described by Peracca (see No. 34 on p. 170) is regarded as a *C. semiannulata*. As I did not see either of them I cannot make out this question; so I hold both of them up as distinct species because of their differences, mentioned in the descriptions:

*C. picteti*: rostral as broad as deep; six upper labials; ventrals 157; subcaudals 22.

*C. semiannulata*: rostral more deep than broad; five upper labials; ventrals 140; subcaudals 27.

38. **Calamaria doderleini** Gough.


Diameter of the eye half its distance from the mouth; rostral more deep than broad; frontal as long as broad, nearly three times as broad as a supraocular, shorter than the parietals; one prae- and one postocular; five upper labials, third and fourth entering the eye, fifth largest; first lower labial in contact with its fellow behind the mental; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 164; anal entire; subcaudals 22. Tail ending bluntly.
Dark brown above, with a purplish gloss; black transverse bands on the back, two scales wide, narrower than the inter-spaces; each scale of the outer and some of the second row with a white centre. Lower surface yellowish, with black transverse bars, the outer ends of the ventrals black; a black median line along the tail. Length of head and body 260 mm.; tail 25 mm. (After GOUGH; not seen by me).

Habitat: Sumatra (Langkat).

39. Calamaria bungaroides Werner.


Frontal as long as broad, three times as broad as a supraocular in the middle, much shorter than the parietals; one prae- and one postocular; six upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 170; anal entire; subcaudals 22.

Dark grey above, with 25 + 4 narrow, white transverse bands; two outer rows of scales white; head and point of tail yellowish-white. Lower surface white, with 23 + 3 narrow blackish cross bands, covering 1—2 ventrals, some of them interrupted in the middle and alternating. Length of head and body 179 mm.; tail 26 mm. (After WERNER; not seen by me).

Habitat: Java?

40. Calamaria schlegeli Dum. & Bibr.

*Calamaria schlegeli*, Boulenger, Cat. Sn. II 1894, p. 345.

Diameter of the eye shorter than its distance from the mouth; rostral more broad than deep; frontal about as broad as long, three times as broad as a supraocular, shorter than the parietals; no praeocular; one postocular; five upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; posterior chin-shields separated. Scales in 13 rows; ventrals 138; anal entire; subcaudals 33. Tail ending in a point.

Blackish above; temporal region whitish. Lower surface whitish; a brown median line along the tail. Length of head and body 222 mm.; tail 37 mm.

Habitat: Sumatra (Padang Highlands!); Borneo.
41. *Calamaria linnaei* Boie.

*Calamaria linnaei*, Boie, Isis, 1827, p. 539.
*Calamaria linnaei*, Boulenger, Cat. Sn. II 1894, p. 345 (s. syn.).

Diameter of the eye equals its distance from the mouth; rostral as deep as broad; frontal more long than broad, not quite twice so broad as a supraocular, as long as the parietales; one pre- and one postocular; four upper labials, second and third entering the eye, second and fourth largest; mental in contact with the anterior chin-shields; both pairs of chin-shields in contact usually. Scales in 13 rows; ventrals 135—163; anal entire; subcaudals 9—23. Tail obtuse.

Reddish or brown above, with black transverse bars, or with small black spots, with or without a black vertebral line; sometimes this line interrupted by dark, light-edged rhomboidal markings; the small black spots on the back sometimes regularly disposed in the median line of each scale, forming longitudinal lines; head sometimes with small dark spots and a dark stripe along the upper border of the fourth upper labial. Lower surface red, with or without quadrangular black spots, which may alternate on the median line, or uniformly black. Length of head and body 305 mm.; tail 15 mm.

*Habitat*: Sumatra (Pondok Gedek, Palembang-district!);
Java (Gadok, Buitenzorg!, Salak, Sindanglaia, Gunung Bunder, Gunung Pengalengan 4000 feet, Volcano Tjisurupan, Preanger, Sukabumi!, Mt. Wilis 5000 feet, Kediri!, Salatiga!, Ambarawa, Wonosobo, Nongkodjadjar in Tengger Mts. 1300 M.!, Prigan 1800—2300 feet); Borneo!; Celebes (Manado).

42. *Calamaria borneensis* Bleeker.

*Calamaria borneensis*, Boulenger, Cat. Sn. II 1894, p. 347, pl. XIX, fig. 1.

Snout prominent; diameter of the eye shorter than its distance from the mouth; rostral more deep than broad; frontal more long than broad, about two times and a half as broad as a supraocular, shorter than the parietals; one prae- and one postocular; four upper labials, second and third entering the eye, second much larger than first and third; mental and two lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 152—192; anal entire; subcaudals 17—22. Tail obtusely pointed.

Dark brown above, uniform or with six black longitudinal lines; sometimes a white lateral streak between two black ones of which the lower runs on the outer ends of the ventrals; on the sides of neck and tail some yellow spots; end of tail black or with black spots. Lower surface yellowish, or with small black dots or checkered black and white. Length of head and body 306 mm.; tail 24 mm.

Type-specimen examined in the British Museum.

Habitat: Borneo (Claudetown on Baram river!, Sintang!, Matang, Kuching, Sarawak, Paku, Simanggang).

43. *Calamaria benjaminsi* Edeling.

*Calamaria benjaminsii*, Boulenger, Cat. Sn. II 1894, p. 347.

Rostral almost as broad as deep; frontal more long than broad; supraocular small; one prae- and one postocular; four upper labials, second and third entering the eye, second and fourth largest; mental in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 145—154; anal entire; subcaudals 17—20. Tail pointed.

Uniformly blackish-purple above; outer row of scales with white spots; upper lip reddish. Lower surface red, with a black
streak along the side of the ventrals; tail with a median black line. Length of head and body 237 mm.; tail 23 mm. (Not seen by me).

Habitat: Borneo (Bulangan river, Bandjermassin).

44. Calamaria javanica Boulenger.


Diameter of the eye about equal to its distance from the mouth; rostral almost as deep as broad; frontal slightly more long than broad, three times as broad as a supraocular, shorter than the parietals; no praecocular; one postocular; four upper labials, second and third entering the eye, second and fourth largest; mental and three lower labials in contact with the anterior chin-shields; posterior chin-shields separated. Scales in 13 rows; ventrals 158—181; anal entire; subcaudals 15—17. Tail ending obtusely.

Dark brown above, each scale with a light dot; a yellow, interrupted collar; upper lip yellow. Lower surface uniformly yellowish; a dark median line along the tail. Length of head and body 195 mm.; tail 12 mm.

Type-specimen examined in the British Museum.

Habitat: Sumatra (Perlak in S. Atjeh); Java!

45. Calamaria pavimentata Dum. & Bibr.

*Calamaria pavimentata*, Boulenger, Cat. Sn. II 1894, p. 348 (s. syn.).

Diameter of the eye nearly equal to its distance from the mouth; rostral as deep as broad; frontal more long than broad, twice and a half as broad as a supraocular, shorter than the parietals; one praec- and one postocular; four upper labials, second and third entering the eye; first lower labial in contact with its fellow behind the mental; three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 133—182; anal entire; subcaudals 9—27. Tail ending in a point.

Reddish-brown above, with five dark, longitudinal lines or series of spots; nape dark brown; a yellow collar; a pair of yellow spots on the base of the tail and at the end. Lower surface yellowish, uniform or mottled with brown or brown
with light borders to the shields; usually a dark line along the tail. Length of head and body 305 mm.; tail 15 mm.

Habitat: Sumatra (Labuan); Java (Buitenzorg). — Penang; Malay Peninsula; S. China; Siam; Burma.

46. Calamaria melanota Jan.

Calamaria linnaei vars. melanota and gastrogramma, Jan, Arch. Zool. Anat. Phys. II 1862, p. 5, pl. V.
Calamaria melanota, Boulenger, Cat. Sn. II 1894, p. 349.

Diameter of the eye shorter than its distance from the mouth; rostral as deep as broad; frontal as broad as long, three or four times as broad as a supraocular, shorter than the parietals; one præ- and one postocular; four upper labials, second and third entering the eye, second and fourth largest; mental and three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 133—182; anal entire; subcaudals 16—24. Tail ending in a point.

Black above, the scales lighter in the centre; lateral scales white, black-edged. Lower surface white, the shields with black edges. Length of head and body 210 mm.; tail 30 mm.

Habitat: Java; S. E. Borneo! (Tandjong).

47. Calamaria lowi Boulenger.


Diameter of the eye about half its distance from the mouth; rostral almost as deep as broad; frontal as broad as long, three times as broad as a supraocular, shorter than the parietals; no præocular; one postocular; four upper labials, third entering the eye; mental and three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 203—236; anal entire; subcaudals 14—22. Tail obtuse.

Dark brown or plumbeous above, with light dots in longitudinal series; upper lip yellowish; anterior part of body with a lateral series of large, yellow spots and a few spots on the tail. Lower surface uniformly blackish with a yellow transverse bar above the vent or blotched with dark brown and yellow. Length of head and body 243 mm.; tail 22 mm.

Type-specimen examined in the British Museum.

Habitat: Borneo (Baram, Rejang and Niah rivers!).

Indo-Australian Reptiles II.


Eye very small; rostral as deep as broad; frontal slightly more broad than long, shorter than the parietals; supraocular very small, confluent with the postocular; no praecocular; four upper labials, second and third entering the eye, second and fourth largest; first lower labial in contact with its fellow behind the mental; three lower labials in contact with the anterior chin-shields; both pairs of chin-shields in contact. Scales in 13 rows; ventrals 300—320; anal entire; subcaudals 13—14. Tail obtuse, rounded at the end.

Blackish, with a few yellowish or red spots along each side of the body and a pair at the base of the tail. Lower surface blackish. Length of head and body 275 mm.; tail 10 mm.

Type-specimen examined in the British Museum.

Habitat: Borneo! (Matang!, Tegora).

The next two species could not be placed in the dichotomical list, as the descriptions are rather incomplete; the specimens could not be examined by me.

49. *Calamaria ornata* Werner.


Snout projecting, rounded; rostral more broad than deep; frontal about twice as long as broad, about three times as broad as a supraocular, shorter than the parietals; one praeco- and one postocular; five upper labials, third and fourth entering the eye, fifth largest; mental in contact with the anterior chin-shields, which are twice as long as broad; posterior chin-shields small, separated in the middle. Scales in 13 rows; ventrals 148; anal?; subcaudals 17.

Coloration? Measurements? (After Werner; not seen by me).

Habitat: Sumatra (Sungei Lalak in Indragiri).

50. *Calamaria hosei* Günther.


Eye very small; frontal at least four times as broad as a supraocular; a minute praecocular and a very small postocular; five upper labials; mental in contact with the anterior chin-
shields. Scales in 13 rows; ventrals 138; anal?; subcaudals 19.

Pinkish above, the scales bordered and speckled with black and with 18 black transverse bars, narrower than the inter-spaces and contracted on the sides; three black bars on the tail; head brown above, the brown colour forming two oblique bands on the sides; tail with a black stripe along each longitudinal series of scales. Lower surface white, with a few dark spots; subcaudals blackish. Length of head and body 312 mm.; tail 37 mm. (After Günther; not seen by me).

Habitat: Borneo (Entoyut river in Baram district).

Doubtful species.

Calamaria hoeveni Edeling, Nat. Tijdschr. Nederl. Ind. XXXI 1870, p. 380; Cat. Sn. II 1894, p. 337 is perhaps a colour-variety of C. margaritophora Blkr.

Rostral well visible from above; frontal one time and a half as long as broad; five upper labials, third and fourth entering the eye; mental in contact with the anterior chin-shields; both pairs of chin-shields separated by a small scale. Scales in 13 rows; ventrals 169; anal entire; subcaudals 9.

Brown above, with transverse pale, black-edged bands; a series of whitish spots along the outer row of scales; head marbled with black. Lower parts yellowish with black spots. Length of head and body 292 mm.; tail 13 mm. (Not seen by me).

Habitat: Sumatra.

Subfamily Homalopsinae.

Key to the Indo-Australian genera.

A. Nasals in contact above the rostral.

2. Scales keeled; parietals well developed .... 39. Homalopsis p. 185.

B. Internasal separating the nasals.

1. Ventral without keels.

a. Loreal absent; scales smooth; body stout. ... 41. Fordonia p. 189.
  b. Loreal present; scales smooth; body very long. 42. Cantoria p. 190.
  c. Loreal present; scales keeled. ............... 43. Myron p. 191.

II. Ventral narrow, with two keels ............... 44. Hipistes p. 193.

Aquatic snakes; viviparous. Nostrils valvular, on the upper surface of the snout.
38. Hypsirhina Wagler.
(Wagler, Syst. Amph. 169, 1830).

Head small, not or slightly distinct from neck; eye small; pupil round or vertically elliptic; shields of head large; nasals in contact, partly divided, the cleft beginning at the first labial or the loreal; internasal single or double; loreal present. Maxillary teeth 10—16, separated by an interspace from two enlarged, grooved teeth; anterior mandibular teeth longest. Body round, covered with smooth scales without pits, in 19—33 rows; ventrals rounded. Tail rather short; subcaudals in two rows.

Distribution. S. E. Asia; Papuasia; N. Australia.

Key to the Indo-Australian species.

A. One or more labials entering the eye.

1. Scales in 19 rows.

II. Scales in 21 (23) rows.
   a. Four or five lower labials in contact with the anterior chin-shields.
      1. Loreal in contact with the internasal. 3. H. enhydris p. 181.
      2. Loreal not in contact with the internasal. 4. H. matannensis p. 182.
   b. Three lower labials in contact with the anterior chin-shields. 5. H. polylepis p. 183.


B. Eye separated from the labials.


1. Hypsirhina alternans (Reuss).

Brachyorrhos alternans, Reuss, Mus. Senckenb. I 1834, p. 155, pl. IX, fig. 3. Hypsirhina alternans, Boulenger, Cat. Sn. Ill 1896, p. 4 (s. syn.).

Rostral more broad than deep; two internasals; frontal broader than the supraocular, as long as or longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep, in contact with the internasal; one prae- and one or two postoculars; temporals 1 + 2; eight upper labials, fourth entering the eye; four or five lower labials in contact with the anterior chin-shields, which are larger than
the posterior; these are separated by scales. Scales in 19 rows; ventrals 125—152; anal divided; subcaudals 24—36.

Purplish-brown above, with indistinct light transverse bars, the first on the occiput. Lower surface yellowish, with black transverse bands or large, alternating black spots. Total length 465 mm.

**Habitat:** Sumatra (Deli!); Banka!; Borneo (Kuching); Java!.

2. **Hypsigyrina plumbea** (Boie).

_Homalopsis plumbea_, Boie, Isis 1827, p. 560.
_Hypsigyrina plumbea_, Boulenger, Cat. Sn. III 1896, p. 5 (s. syn.).

Rostral more broad than deep; a single internasal (sometimes two), more broad than long; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal in contact with the internasal; one prae- and two postoculars; temporals 1 + 2; eight upper labials, fourth or fourth and fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; posterior chin-shields shorter, separated from one another. Scales in 19 rows; ventrals 117—139; anal divided; subcaudals 29—47.

Brownish or greyish above, uniform or with a median series of black spots; upper lip white. Lower surface white, generally with a dark line along the middle of the tail and sometimes with dark spots or black dots on the median line of the belly. Length of head and body 420 mm.; tail 65 mm.

**Habitat:** Sumatra (Atjeh, Labuan, Medan!, Langkat!, Serdang!, Raja Mts., Bedagei, Palembang); Java (Batavia, Semarang, Salatiga!, Malang!, Kediri!); Borneo (Labuan, Samarinda!, Bandjermassine); Celebes! (Manado!, Kema, Kandari, Tempe!, Macassar!, Lamontjong). — Penang; Malay Peninsula; Siam; Indo China; S. China; Burma.

3. **Hypsigyrina enhydris** (Schn.).

_Hypsigyrina enhydris_, Boulenger, Cat. Sn. III 1896, p. 6 (s. syn.).

Rostral twice as broad as deep; a single internasal, about twice as broad as long; frontal broader than the supraocular, as long as or shorter than its distance from the tip of the snout, as long as the parietals; loreal in contact with the internasal; one prae- and two (one) postoculars; temporals 1 + 2;
eight upper labials, fourth entering the eye; four lower labials in contact with the anterior chin-shields; posterior chin-shields longer and separated from one another. Scales in 21 rows (19 or 23); ventrals 150—177; anal divided, subcaudals 47—78.

Brown, olive or dark grey above, with two light longitudinal bands, sometimes indistinct. Lower surface white, with a dark line on each side of the ventrals and a median dark line or series of dots, which is sometimes absent. Length of head and body 545 mm.; tail 135 mm.

Nom. indig. Ular ajer (mal.).

Habitat: Sumatra (Djambi!, Kertadjaja, Palembang-district!, Padang); Java (Batavia, Buitenzorg, Pekalongan!, Ambarawa, Salatiga!); Banka!; Borneo! (Singkawang, Montrado, Simanggang, Saribas, Kapuas river, Bandjermassin); Celebes (Macassar); New Guinea (Lorentz river). — Singapore, Penang; Malay Peninsula; Siam; Cochin China; S. China; Burma; India; Ceylon.


Rostral more broad than deep; two internasals; frontal broader than the supraocular, longer than its distance from the tip of the snout, shorter than the parietals; loreal more long than deep, not in contact with the internasal; one prae- and one postocular; temporals 1 + 2; eight upper labials, fourth and fifth entering the eye; five lower labials in contact with the anterior chin-shields; posterior chin-shields shorter and separated from one another. Upper head-shields, labials, chin-shields and scales of the throat rough with granules. Scales in 21 rows; ventrals 137; anal divided; subcaudals 43.

Dark olive-brown above, with an indistinct dark line on the vertebral scales. Throat yellowish-white; anterior ventrals yellowish-white with large transverse olive-brown spots; middle ventrals almost olive-brown; posterior ventrals and subcaudals olive-brown with yellowish borders; an olive-brown line on the middle of the tail below. Length of head and body 175 mm.; tail 65 mm.

Type-specimen received from the Basle Museum, examined. Habitat: Celebes (Lake Matanna!).
5. Hypsirhina polylepis Fischer.

Hypsirhina polylepis, Boulenger, Cat. Sn. III 1896, p. 9.

Rostral more broad than deep; internasal single or double, twice as broad as long; frontal broader than the supraocular, slightly longer than its distance from the tip of the snout, as long as or a little shorter than the parietals; loreal more long than deep, not in contact with the internasal; one or two praef- and two postoculars; temporals 1 + 2 or 1 + 3; eight upper labials, fifth or fifth and sixth entering the eye; three lower labials in contact with the anterior chin-shields, which separate the posterior. Scales in 21 or 23 (25) rows; ventrals 137—156; anal divided; subcaudals 37—48.

Dark olive or blackish above, the scales sometimes light-edged; a yellow lateral streak along the second row of scales. Lower surface brown, spotted with yellow or with a light spot on each ventral near the outer end; tail dark, each subcaudal with a yellow spot. Length of head and body 775 mm.; tail 125 mm.

Habitat: New Guinea (Fly river!, Lorentz river!).

Note. The specimens from the Lorentz river have two outer rows of scales yellow, this yellow band continued to the corner of the mouth, with dark spots. Lower surface yellow, throat and anterior ventrals powdered with brown; sometimes a dark median subcaudal line.

6. Hypsirhina albomaculata (Dum. & Bibr.).

Hypsirhina albomaculata, Boulenger, Cat. Sn. III 1896, p. 11.

Rostral more broad than deep; two internasals; praefrontals sometimes longitudinally divided 1); frontal broader than the supraocular, as long as its distance from the tip of the snout and as the parietals or latter a little longer; loreal slightly more long than deep, in contact with the internasal; one praef- and one or two postoculars; temporals 1 + 2 or 3; eight or nine upper labials, fifth (fourth) entering the eye; five or six lower labials in contact with the anterior chin-shields, which

1) None of 10 specimens from Simalur have divided praefrontals; three specimens have 25 rows of scales round the body.
are larger than the posterior; latter separated by scales. Scales in 27 (25) rows; ventrals 140—150; anal divided; subcaudals 37—48.

Olive-brown above, with small yellow or orange spots; one

or two yellow bars across the nape, sometimes indistinct. Lower surface yellow or orange, black-spotted. Length of head and body 528 mm.; tail 94 mm.

Habitat: Simalur!; Nias; Sumatra (Padani).

7. Hypsirhina punctata (Gray).

*Phytolopsis punctata*, Gray, Cat. Sn. 1849, p. 68.

*Hypsirhina punctata*, Boulenger, Cat. Sn. III 1896, p. 12 (s. syn.).

Rostral a little more broad than deep; internasal small, single; frontal not broader than the supraocular, as long as its distance from the tip of the snout, as long as or a little shorter than the parietals; one or two loreals, not in contact
with the internasal; one prae- and two postoculurs; temporals small; twelve to fourteen upper labials, the anterior four or five deep, the posterior much lower and separated from the eye by small scales; five or six lower labials in contact with the anterior chin-shields, which are much larger than the posterior; the latter separated from one another. Scales in 25 or 27 rows; ventrals 133—156; anal divided; subcaudals 28—41.

Dark brown above, uniform or with small yellow spots, sometimes forming transverse bars; one or two yellow transverse bands on the nape, another between the eyes. Lower surface yellow. Length of head and body 330 mm.; tail 40 mm.

Habitat: Sumatra (Labuan, Deli!, Lalak and Djapura in Indragiri, Taluk!); Banka!; Borneo (Singkawang, Kuching). — Malay Peninsula.


Rostral as deep as broad; two internasals; frontal broader than the supraoculurs, shorter than its distance from the tip of the snout, as long as the parietals or a little shorter; supraoculurs divided into two or three small shields; two loreals, more deep than long, in contact with the internasal; one prae-, two or three post- and two or three suboculars; temporals small; fifteen upper labials, the posterior transversely divided; chin-shields large, separated from the mental by the two anterior pair of lower labials. Scales in 31 or 33 rows; ventrals 141—146; anal divided; subcaudals 45—55.

Olive-brown above, yellow below, uniform or spotted with blackish. Length of head and body 680 mm.; tail 120 mm.

Habitat: Borneo (Sandakan Bay!, Sarawak, Kuching, Baram district!, Kapuas river 1)).


(*Kuhl*, Isis p. 474, 1822).

Head distinct from neck; eye small; pupil vertically elliptic; shields of head large; nasals in contact, partly divided, the

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1) A specimen from this locality had 27 rows of scales; ventrals 160; subcaudals 44; length of head and body 715 mm.; tail 95 mm. (*Brown*, Proc. Acad. Philad. LIV 1902, p. 180).
cleft beginning at the first labial; internasal single or double; loreal present. Maxillary teeth 11—13, decreasing in size posteriorly and separated by an interspace from two slightly enlarged, grooved teeth; anterior mandibular teeth longest. Body round, covered with keeled and striated scales without pits, in 37—47 rows; ventrals rounded. Tail moderate; subcaudals in two rows.

Distribution. S. E. Asia.

A single species.

1. *Homalopsis buccata* (L.).


*Homalopsis buccata*, Boulenger, *Cat. Sn.* III 1896, p. 14 (s. syn.).

Internasals smaller than praefrontals; frontal often broken up into small shields, a little broader or sometimes narrower than the supraocular; parietals short; loreal present, sometimes divided; one or two prae- and two postoculars; one to three suboculars may be present; temporals small; ten to twelve upper labials, fifth or sixth entering the eye or narrowly

Fig. 69. *Homalopsis buccata* (L.) × \( \frac{1}{2} \). Side view of head.
separated from it; two or three pair of chin-shields, inner in contact with the three anterior lower labials. Scales in 37—47 rows; ventrals 158—176; anal divided; subcaudals 70—106.

Dark brown above, with narrow, pale brown, black-edged transverse bands, in young specimens yellow; head pale with a triangular or V-shaped dark marking on the snout, a \( \Lambda \)-shaped spot on the occiput, and a dark band on each side passing through the eye and extending to before the eye. Lower surface white or yellowish, with dark brown spots along each side; tail with brown spots. Length of head and body 820 mm.; tail 230 mm.

Nom. indig. Ular kadut (mal).

Habitat: Sumatra (Atjeh!, Labuan, Serdang!, Stabat, Langkat, Deli!, Laut Tador, Indragiri, Djambi!, Ringgat); Banka!; Riou!; Borneo (Bulangan river, Labuan, Kuching, Buntal, Rejang river, Sebruang Valley, Pontianak, Landak!; Singkawang; Montrado; Bandjermassin); Java (Batavia, Buitenzorg!, Depok, Preanger, Pekalongan!, Salatiga!, Surabaya!); Celebes (Macassar!). — Malay Peninsula; Siam; Indo China; Burma.

Feeds on fish and frogs.

40. Cerberus Cuvier.

(Cuvier, Règne Anim. 2nd ed. II p. 81, 1829).

Head small, slightly distinct from neck; eye small; pupil vertically elliptic; snout covered with shields; parietals broken up into scales; nasals in contact, partly divided, the cleft beginning at the first or second labial; two (one) internasals; loreal present. Maxillary teeth 12—17, separated by a short interspace from two slightly enlarged, grooved teeth; anterior mandibular teeth longest. Body round, covered with keeled and striated scales without pits, in 23—29 rows; ventrals rounded. Tail a little compressed; subcaudals in two rows.

Distribution. S. E. Asia; N. Australia.

A single species.

1. Cerberus rhynchops (Schn.).

Cerberus rhynchops, Boulenger, Cat. Sn. III 1896, p. 16, (s. syn.).
Frontal distinct or broken up into small shields; nasal cleft extending to the first upper labial, sometimes to the second; loreal usually in contact with the three or four anterior labials and with the internasal; eye bordered by four or six shields, a supraocular, a praeocular, one or two post- and one, two or three suboculars; nine or ten upper labials; four lower labials in contact with the anterior chin-shields; posterior chin-shields smaller, between the anterior and the labials. Scales strongly keeled, in 23 or 25 (27) rows; ventrals 122—160; anal divided; subcaudals 49—72.

Grey, olive or dark brown above, with black spots or transverse bands, sometimes indistinct; a light lateral band; a black streak on each side of the head, passing through the eye. Lower surface whitish, spotted with black, or with black transverse bands or almost entirely black. Length of head and body 800 mm.; tail 180 mm.

Nom. indig. Sawa butah-hè (Simalur).

Habitat: Simalur!; Nias!; Pulu Nako!; Mentawei Islands (Sipora, Siberut!); Engano; Sumatra (Sabang on Pulu Weh!, Peudawa, Atjeh!, Labuan, Medan!, Tandjung Laut in Palembang, Ringgat!, Padang); Siak!; Riou!; Banka!; Borneo (Bulangan river, Sandakan Bay, Labuan, Sibu, Kuching, Buntal, Singkawang!, Pontianak river, Bandjermassin, Samarinda!); Java (Batavia, Cheribon sea!, Semarang!); Bali; Lombok; Flores!;

Fig. 70. *Cerberus rhynchos* (Schm.) $\times \frac{1}{2}$. Side view of head.
Sumba; Rotti!; Timor!; Wetar; Celebes (Manado!, Kema, Kandari, Pare Pare!, Raha); Sangir Islands; Ternate!; Halmahera; Batjan; Buru; Ceram; Ambon!; Saparua; Goram; New Guinea!; — Pelew Islands; Malay Peninsula; Penang; Andamans; Nicobars; Siam; Indo China; Burma; Ceylon; India; Philippines; N. Australia.

Not rare at the sea-coast; feeds on fish.

41. Fordonia Gray.


Head small, not distinct from neck; eye very small; pupil vertically elliptic; shields of head large; nasals undivided or partly divided, separated by a single internasal; no loreal. Maxillary teeth small, 7 or 8, followed by two enlarged, grooved teeth; mandibular teeth about equal. Body round, covered with smooth scales, without pits, in 25—29 row; ventrals rounded. Tail short, subcaudals all or partly in two rows.

Distribution. Burma; Cochin China; Indian Archipelago; N. Australia.

A single species.

1. Fordonia leucobalia (Schleg.).

_Homalopsis leucobalia_, Schlegel, Phys. Serp. II 1837; p. 345; pl. XIII, fig. 8, 9.
_Fordonia leucobalia_, Boulenger, Cat. Sn. Ill 1896, p. 21 (s. syn.).

Fig. 71. Fordonia leucobalia (Schleg.) $\times \frac{3}{4}$. Side view of head.
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Frontal more long than broad, longer than its distance from the tip of the snout, shorter than the parietals; one prae- and two postoculars; temporals \(1 + 3\) or \(2 + 3\); five upper labials, third entering the eye; three lower labials in contact with the anterior chin-shields, which are a little larger than the posterior. Scales in 25—29 rows; ventrals 130—156, last often divided; anal divided; subcaudals 26—43.

Yellow, red, brown or black above, spotted or variegated with black, yellowish-white or greenish. Lower surface yellowish-white. Length of head and body 820 mm.; tail 110 mm.

Type-specimen examined in the Leiden Museum.

Habitat: Sumatra (Deli!); Borneo (Kuching, Santubong, Niah, Pontianak, Bandjermasssin); Java (Cheribon sea!, Ambarawa); Timor!; Ceram!; Ambon; New Guinea (Yule Island, Mimika river, Lorentz river, Merauke, Fly river). — Singapore; Penang; Malay Peninsula; Nicobars; Cochin China; Burma; Bengal; N. Australia.

Lives in rivers, estuaries and along the sea-shore; feeds on crustaceans and fish.

Doubtful species.

Fordonia papuensis Macleay, Proc. Linn. Soc. N. S. W. II 1877, p. 35; Cat. Sn. III 1896, p. 23, is perhaps a synonym of F. leucobalia (Schleg.).

Third labial not entering the eye. Scales in 22 rows. (Not seen by me).

Habitat: New Guinea (Katow).

42. Cantoria Girard.


Head small, not distinct from neck; eye very small; pupil round; shields of head large; nasal partly divided, the cleft beginning at the praefrontal; internasal single, separating the nasals; loreal present. Maxillary teeth 10 or 11, posterior longest and grooved; anterior mandibular teeth longest. Body slightly compressed, very long, covered with smooth scales without pits, in 19 rows; ventrals rounded. Tail moderate; subcaudals in two rows.

Distribution. Burma; Malay Peninsula; Sumatra; Borneo; Timor.

A single species.
1. Cantoria violacea Gir.

*Cantoria violacea*, Boulenger, Cat. Sn. III 1896, p. 23 (s. syn.); Rept. Malay Penin. 1912, p. 165, fig. 51.

Frontal more long than broad, shorter than its distance from the tip of the snout and shorter than the parietals; one pre- and one postocular; one subocular; loreal more long than deep; one long anterior temporal, in contact with the postocular and the subocular; five upper labials, separated from the eye; three lower labials in contact with the anterior chin-shields. Scales in 19 rows; ventrals 260—284; anal divided, subcaudals 52—64.

Black above, with white transverse bands, widest towards the belly, narrower than the inter-spaces; head with white spots. Lower surface white, with grey spots, which are a continuation of the transverse bands; tail sometimes with complete rings. Total length 1220 mm.

Habitat: Sumatra (Tandjong Laut in Palembang); Borneo; Timor. — Singapore; Malay Peninsula!; Burma.

Rare.

43. Myron Gray.

(Gray, Cat. Sn. p. 70, 1849).

Head small, not or slightly distinct from neck; eye very small; pupil vertically elliptic; shields of head large; nasal partly divided, the cleft beginning at the first or second labial; internasal single or double, separating the nasals; loreal present. Maxillary teeth about 10, separated by a short interspace from two enlarged, grooved teeth; anterior mandibular teeth longest. Body round, covered with keeled and striated scales without pits, in 21 rows; ventrals rounded. Tail feebly compressed, short; subcaudals in two rows.

Fig. 73. Myron richardsoni Gray. × 4/5.

1. Myron richardsoni Gray.

*Myron richardsonii*, Gray, Cat. Sn. 1849, p. 70.

Rostral more broad than deep; internasal single or double; frontal as long as its distance from the rostral or the tip of the snout, shorter than the parietals; one or two praec- and two postoculars; loreal more long than deep; temporals 1 + 2; eight or nine upper labials, fourth or fifth entering the eye; three or four lower labials in contact with the anterior chin-shields, which are followed by two other pairs, in contact on the median line. Scales feebly keeled, in 21 rows; ventrals 132—140; anal divided; subcaudals 30—40.

Olive or grey above, with black transverse bands; two outer rows of scales yellowish; head dark; a dark streak through the eye to the nape. Lower surface yellowish or brownish, the ventrals edged with black anteriorly and with a dark median streak. Length of head and body 365 mm.; tail 60 mm.
Type-specimen examined in the British Museum.

Habitat: Aru Islands (Kobroor); New Guinea (Lorentz river!'). — N. W. Australia!.

44. Hipistes Gray.

(Gray, Cat. Sn. p. 77, 1849).

Head small, not distinct from neck; eye very small; pupil vertically elliptic; shields of head small, parietals broken up; nasals divided, separated by a single internasal; nostril transverse; loreal present. Maxillary teeth 8 or 9, followed by two enlarged grooved teeth after an interspace. Body long, a little compressed, covered with smooth scales without pits, juxtaposed or imbricate, in 35—43 rows; ventrals narrow, with two keels. Tail short, a little compressed; subcaudals narrow, in two rows.

Distribution. Mouth of rivers and coasts of Burma, Pegu, Siam, Malay Peninsula; Sumatra.

A single species.

Fig. 75. *Hipistes hydrinus* (Cant.). $\times \frac{3}{4}$.
Side view of head; ventral shields with two keels.

1) Two specimens have a narrow shield between the two praefrontals.
I. Hipistes hydrinus (Cantor).

*Homalopsis hydrina* Cantor, Cat. Mal. Rept. 1847, p. 104, pl. XI, fig. 4.
*Hipistes hydrinus* Boulenger, Cat. Sn. III 1896, p. 24; Rept. Malay Penin. 1912, p. 166, fig. 52.

Frontal narrow, twice as long as broad, as long as or longer than its distance from the tip of the snout; a praecocular; a small postocular and a subocular; seven upper labials, separated from the eye; five lower labials in contact with the anterior chin-shields; posterior chin-shields very small. Scales in 35—43 rows; ventrals 153—172; anal divided; subcaudals 21—35.

Greyish or brownish above, with black transverse bands as broad as the interspaces or narrower. Lower surface whitish. Length of head and body 435 mm.; tail 50 mm.

Habitat: Sumatra (Ramunia in Deli!). — Pegu; Siam; Malay Peninsula; Penang; Singapore.

Feeds on fish; often captured in fishing-stakes. The head shows much resemblance with a Hydrophine snake.

Subfamily Dipsadomorphinae.

Key to the Indo-Australian genera.

A. Pupil vertical, or vertically elliptic.

1. Body compressed; maxillary teeth sub-equal; scales in 17—31 rows, vertebral scales enlarged 45. *Dipsadomorphus* p. 194.


B. Pupil horizontal.

1. One or two middle maxillary teeth enlarged; scales in 15 rows; vertebral scales slightly enlarged 47. *Dryophis* p. 204.


C. Pupil round.


2. Scales in 17 rows, vertebrals not enlarged 50. *Chrysopelea* p. 211.

Terrestrial or arboreal snakes.

45. **Dipsadomorphus** Fitz.

(Fitzinger, in Tschudi, Fauna Per. Herp. p. 55, 1845).

Head very distinct from neck; eye moderate or large; pupil
vertically elliptic; posterior nasal concave. Maxillary teeth 10—14, about equal, followed by two or three enlarged, grooved teeth; anterior mandibular teeth longest. Body compressed, covered with smooth scales, more or less oblique, with pits, in 17—31 rows, the vertebral row enlarged; ventrals angulate laterally. Tail long; subcaudals in two rows.

Distribution. Tropical Africa; S. Asia; Papuasia; Australia. Arboreal and nocturnal.

Key to the Indo-Australian species.

A. Anterior palatine teeth not or a little enlarged.
   I. Scales in 19 (17) rows.
      a. Snout longer than eye; praecocular not extending to upper surface of head . . . 1. Dipsas multimaculatus p. 195.
      b. Snout as long as the eye; praecocular extending to upper surface of the head . . . 2. Dipsas drapiezii p. 196.

II. Scales in 21 (23) rows.
   a. Snout longer than the eye.
      1. Subcaudals 89—110; posterior chin-shields as long as anterior or shorter. 3. Dipsas dendrophilus p. 197.
      2. Subcaudals 140—154; posterior chin-shields longer than anterior . . . . . . . 4. Dipsas nigriceps p. 199.
   b. Snout as long as the eye . . . . . . . . . . . . . 5. Dipsas jaspideus p. 199.

B. Anterior palatine teeth strongly enlarged.
   I. Praecocular extending to upper surface of head.
      aa. Scales in 23 (25) rows; ventrals 248—290;
         subcaudals 114—159 . . . . . . . . . . . . . . . 6. Dipsas cynodon p. 200.
      bb. Scales in 19—23 rows; ventrals 217—272;
         subcaudals 100—125 . . . . . . . . . . . . . . . 7. Dipsas irregularis p. 201.

II. Praecocular not extending to upper surface of head. . . . . . . . . . . . . . . . . . 8. Dipsas flavescens p. 202.

1. *Dipsadomorphus multimaculatus* (Boie).

*Dipsas multimaculata*, Boie, Isis, 1827, p. 549.

*Dipsadomorphus multimaculatus*, Boulenger, Cat. Sn. III 1896, p. 63.


Snout longer than eye; rostral more broad than deep, visible from above; internasals shorter than praefrontals; frontal as long as or a little longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or a little more deep; a praecocular not extending to the upper
surface of the head; two postoculars; temporals $2 + 2$ or $2 + 3$ ($1 + 2$); eight upper labials, third to fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter as long as or shorter than the posterior; anterior palatine teeth not much larger than the posterior. Scales in 19 (17) rows, vertebral row much enlarged; ventrals 202—245; anal entire; subcaudals 80—111.

Brown or greyish above, with two alternating series of round dark brown spots; on each side a series of smaller spots; two black bands on the head, diverging behind, a black streak from the eye to the corner of the mouth. Lower surface white, spotted with brown or marbled; along each side a row of brown spots. Length of head and body 585 mm.; tail 165 mm.

**Habitat:** Sumatra; Java (Buitenzorg, Depok, Semarang!, Salatiga!, Ambarawa, Mount Wilis 5000 feet, Kediri!, Tengger Mts. 1200 M., Pasuruan); Borneo (Bandjermassin); Celebes (Minahassa). — Penang; Malay Peninsula; Siam; Burma; Indo China; S. China.

2. *Dipsadomorphus drapiezii* (Boie).

*Dipsas drapiezii*, Boie, Isis, 1827, p. 559.

*Dipsadomorphus drapiezii*, Boulenger, Cat. Sn. III 1896, p. 74.

Eye as long as snout; rostral more broad than deep, just visible from above; internasals shorter than the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal small or absent; a praecocular, in contact with the frontal or narrowly separated from it; two postoculars; temporals $2 + 2$, $2 + 3$ or $3 + 3$; eight upper labials, third to fifth or fourth and fifth entering the eye; five or six lower labials in contact with the anterior chin-shields; latter as long as or longer than the posterior; anterior palatine teeth not much enlarged. Scales in 19 rows, vertebrals enlarged; ventrals 250—276; anal entire; subcaudals 114—163.

Light brown above with dark brown transverse spots or brown with yellow or red, dark-edged transverse bands, each band ending in a white spot. Lower surface brownish-white, uniform or speckled with brown and with two brown longitudinal lines, sometimes indistinct. Total length 1524 mm.

**Habitat:** Sumatra (Labuan, Deli!, Indragiri, Djambi!,
3. Dipsadomorphus dendrophilus (Boie).

*Dipsas dendrophila*, Boie, Isis, 1827, p. 549.
*Dipsadomorphus dendrophilus*, Boulenger, Cat. Sn. III 1896, p. 70.

Snout longer than eye; rostral more broad than deep, visible from above; internasals as long as or shorter than the prefrontals; frontal as long as or slightly shorter than its distance from the tip of the snout; loreal as long as deep or more long; a praecocular extending to the upper surface of the head, not reaching the frontal; two postoculatrs; temporals \(2 + 2\) or \(2 + 3\); eight (nine) upper labials, third to fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter as long as or longer than the posterior; anterior palatine teeth not much larger than the posterior. Scales in \(21\) (23) rows, vertebral row enlarged; ventrals 209—239; anal entire; subcaudals 89—110.

Black above, with yellow transverse bands, continuous or not extending across the back; labials yellow, with black edges. Lower surface black or bluish, uniform or speckled with yellow; throat yellow. Total length 2310 mm.

Nom. indig. Ular katam tebu (mal.); Oraj taliwangsa or Oraj santja manuk (sund.); Ular chin chin mas (Borneo); Ulentipojo (Toradja-name).

Habitat: Nias!; Batu Islands (Pulu Tello!); Sumatra (Labuan, Stabat, Deli!, Serdang!, Langkat, Assahan, Indragiri, Djambi!, Tandjong Laut! and Benakat in Palembang, Ringgat!, Batang Singalang!, Silago, Ajerbangis!, Padang!); Siak!; Riou; Banka!; Borneo (Labuan, Bulangan river, Sandakan Bay, Kudat, Sebruang Valley, Santubong, Kuching, Sarawak, Sintang, Sangkawang, Pontianak river, Bandjermassan!, Balikpapan, Muara Djawa!, Samarinda!); Java (Buitenzorg, Depok, Anjer, Pekalongan!); Celebes (Manado!, Kema, Kandari, Macassar). — Philippines; Singapore; Penang; Malay Peninsula; Lower Siam.

Feeds on small mammals, lizards, frogs, snakes, fish.
Nocturnal.
Fig. 76. *Dipsadomorphus dendrophilus* (Boie) \( \times \frac{1}{2} \). Side view of head.
4. *Dipsadomorphus nigriceps* (Gthr.).

*Dipsadomorphus nigriceps*, Boulenger, Cat. Sn. III 1896, p. 72.

Snout longer than eye; rostral more broad than deep, visible from above; internasals shorter than the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or more long; a praeproocular, in contact with the frontal or narrowly separated from it; two postoculars; temporals $1 + 2$ or $2 + 3$ or $3 + 3$; eight upper labials, third to fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter often much shorter than the posterior; anterior palatine teeth not much enlarged. Scales in 21 rows, vertebrals much enlarged; ventrals 240—263; anal entire; subcaudals 140—154.

Brownish or reddish-grey, uniform or speckled with dark brown, sometimes a series of black spots on the back; head dark or reddish; upper lip light. Lower surface grey, with dark dots. Length of head and body 1240 mm.; tail 410 mm.

Habitat: Simalur!; Nias!; Mentawei Islands (Siberut!); Sumatra (Upper Langkat, Tandjung Laut in Palembang); Borneo (Bongon); Java (Gadok). — Malay Peninsula; Siam.

5. *Dipsadomorphus jaspideus* (Dum. & Bibr.).

*Dipsadomorphus jaspideus*, Boulenger, Cat. Sn. III 1896, p. 73.

Eye as long as snout; rostral more broad than deep, just visible from above; internasals as long as praefrontals; frontal longer than its distance from the tip of the snout, as long as or shorter than the parietals; loreal as long as deep or more deep; a praeproocular narrowly separated from the frontal; two postoculars; temporals $2 + 2$; eight upper labials, third to fifth entering the eye; four or five lower labials in contact with the anterior chin-shields; posterior chin-shields as long as the anterior or longer, separated from one another by scales; anterior palatine teeth a little enlarged. Scales in 21 rows, vertebrals much enlarged; ventrals 243—266; anal entire; subcaudals 140—166.

Brown or reddish above, speckled with black or dark brown and with black transverse bars, interrupted on the vertebral line, sometimes indistinct; a series of large, white spots on
each side, partly on the ventrals; shields of head with black spots, the larger light-edged; on the occiput a black, light-edged longitudinal streak. Lower surface yellowish, speckled with brown. Length of head and body 1030 mm.; tail 370 mm.

Habitat: Nias!; Sumatra (Gambir in Deli!, Pagarkaja, Muara Lakitan in Palembang); Java!; Borneo (Sandakan Bay!, Labuan, Kuching, Saribas, Baram, Pankalan ampat, Balikpapan). — Singapore; Penang; Malay Peninsula.

6. Dipsadomorphus cynodon (Boie).

Dipsas cynodon, Boie, Isis, 1827, p. 559.
Dipsadomorphus cynodon, Boulenger, Cat. Sn. III 1896, p. 78.

Snout longer than eye; rostral more broad than deep, just visible from above; internasals shorter than the praefrontals; frontal as long as or longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep or more long; a praecocular, extending to the upper surface of the head, narrowly separated from the frontal; two postoculars; temporals 2 + 2, 2 + 3 or 3 + 3; eight to ten upper labials, third to fifth, fourth and fifth, fourth to sixth or fifth to seventh entering the eye; four or five lower labials in contact with the anterior chin-shields; latter smaller than the posterior; anterior palatine teeth strongly enlarged. Scales in 23 (25) rows, vertebrals strongly enlarged; ventrals 248—290; anal entire; subcaudals 114—159.

Yellow or reddish-brown above, with dark brown or black transverse spots or bars, sometimes absent, or blackish above with lighter transverse bars and a series of white spots on the sides; a dark streak on each side of the head behind the eye; labials sometimes with dark vertical lines. Lower surface yellow, uniform or speckled with brown, or entirely black. Total length 2450 mm.

Habitat: Nias!; Mentawei Islands (Sipora); Sumatra! (Langkat, Deli, Indragiri); Banka!; Borneo (Sandakan, Baram, Kapuas river, Sebruang Valley, Sarawak, Kuching, Busau, Santubong, Rejang river, Balikpapan, Samarinda!); Java (Batavia, Salatiga!); Bali; Flores!. — Philippines; Malay Peninsula; Singapore; Burma; Assam; Siam.
7. Dipsadomorphus irregularis (Merr.).

Coluber irregularis, Merrem, Bechst. Uebers. Lacép. IV 1802, p. 239, pl. XXXVII, fig. 1.

Dipsadomorphus irregularis, Boulenger, Cat. Sn. III 1896, p. 75 (s. syn.).


Snout longer than eye; rostral more broad than deep, visible from above; internasals shorter than the praefrontals; frontal as long as its distance from the rostral, shorter than the parietals; loreal as long as deep or more long; a praecocular, extending to the upper surface of the head, in contact with the frontal or narrowly separated from it; two postoculars; temporals 2 — 3 + 3 — 4; nine (eight or ten) upper labials, fourth to sixth or third to fifth or fifth to seventh entering the eye; four or five lower labials in contact with the anterior chinshields; latter shorter than the posterior; anterior palatine teeth strongly enlarged. Scales in 19—23 rows, vertebrals enlarged; ventrals 217—272; anal entire; subcaudals 100—125 (69 or 75), of which some may be single.

Yellowish, grey, brown or olive above, uniform or with dark transverse bands or spots; usually a dark streak on each side of the head behind the eye; upper labials yellow, usually dark-edged. Lower surface yellowish, sometimes speckled with dark; subcaudals sometimes black. Length of head and body 1700 mm.; tail 450 mm.

Habitat: Celebes (Gorontalo, Minahassa, Manado!, Kema, Kandari, Barabatuwa, Macassar); Sangir Islands; Ternate!; Halmahera!; Batjan!; Salawatti; Misol; Ceram!; Buru!; Ambon!; Goram; Kei Islands; Aru Islands; New Guinea (Sorong, Fak Fak, Passim, Dorei, Mt. Arfak, Mansinam, Manokwari, Sermowai river!, Humboldt Bay!, Lake Sentani, Mimika, Stekwa and Lorentz! rivers, Fly river, Hula, Kapa Kapa, Bara Bara, Dinawa in Owen Stanley Range 4000 feet, Fife Bay, S. of Huon Gulf, Tami, Bogadjim, Bongu, Stephansort, Astrolabe Bay, Lialun, Berlinhafen, Simpsonhafen, Simbang, Selco Island, Yule Island, Jobi); Schouten Islands (Mysore). — Ferguson, Trobriand and Woodlark Islands; Louisiade Archipelago; Islands of Torres Straits; Solomon Islands; Bismarck Archipelago.

Note. A form from German New Guinea: Stephansort and Seleo Island has been called by MEHELY 1) Dipsadomorphus irre-

gularis var. papuanus. Its colour is somewhat different from the usual one. Pinkish-grey above, each scale speckled with fine brown dots; ventrals and subcaudals speckled with brown. In the stomach of one of those specimens were 7 shells of fowl’s eggs.

8. Dipsadomorphus flavescens (Dum. & Bibr.).

*Dipsadomorphus flavescens*, Boulenger, Cat. Sn. III 1896, p. 77.

Rostral triangular, visible from above; loreal small; praeocular not extending to the upper surface of the head; three post-oculars; temporals 2 + 4; eight upper labials. Scales in 19 rows, vertebrals enlarged; ventrals 260; anal entire; subcaudals 116. Brown or yellowish-brown above, with indistinct angular spots or transverse bands. Lower surface lighter. Length of head and body 887 mm.; tail 234 mm. (After DUMERIL & BIBRON; not seen by me).

**Habitat:** Celebes (Macassar).

46. *Psammodynastes* Günther.


Head distinct from neck; canthus rostralis angular; eye large; pupil vertically elliptic; nasal single; frontal very narrow. Maxillary teeth 9—11, third or third and fourth enlarged, separated from the following by a short interspace, last enlarged and grooved; anterior mandibular teeth strongly enlarged. Body round, covered with smooth scales, without pits, in 17 or 19 rows; ventrals rounded. Tail short; subcaudals in two rows.

**Distribution.** S. E. Asia.

**Key to the Indo-Australian species.**


B. Third lower labial large, bordering the mental groove behind the anterior chin-shields (fig. 77). 2. *P. pictus* p. 203.


*Psammophis pulverulenta*, Boie, Isis, 1827, p. 547.
*Psammodynastes pulverulentus*, Boulenger, Cat. Sn. III 1896, p. 172 (s. syn.).
Snout short, pointed or slightly turned up in the adult. Rostral more broad than deep; internasals shorter than the prefrontals; frontal two times or two times and a half as long as broad, narrower than the supraocular, longer than its distance from the tip of the snout, shorter than the parietals; loreal as long as deep, sometimes vertically divided; one or two prae- and two to four postoculars; temporals $2 + 3$ or $2 + 2$; eight upper labials, third to fifth entering the eye; three or four lower labials in contact with the anterior chin-shields; two smaller pairs of chin-shields posteriorly. Scales in 17 (19) rows; ventrals 146—175; anal entire; subcaudals 44—70.

Dark brown or reddish-brown above, with small dark and light spots; a dark band along each side; head with symmetrical longitudinal markings, a dark band on each side of the head, passing through the eye. Lower surface speckled with brown and with dark lines and spots. Length of head and body 497 mm.; tail 128 mm.

Nom. indig. Duwata (Toradja-name).

Habitat: Engano; Sumatra (Peudawa in Atjeh, Labuan, Bindjey, Medan!, Upper Langkat, Laut Tador, Djambi!, Palembang, Gunung Sugei in Lampong district); Banka; Riou!; Natuna Islands; Borneo (Baram river, Kina Balu, Sebruang Valley, Pangkalan Ampat, Singkawang, Sintang, Kapuas river, Putus Genting!, Barabei, Bandjermassin); Java (Gadok, Sindanglaia, Tjibodas 1425 M.!, Mt. Gedeh 4500 feet, Mount Wilis 5000 feet, Volcano Pengalengan 4000 feet, Tengger Mts. 1200 M.); Lombok; Flores!; Sumba; Celebes (Sudara 4450 feet, Upper Bone Valley, Buol, Matingang Mts. 1700 feet, Posso! 2000 feet); Togian Islands; Sangir Islands (Siao). — Malay Peninsula; Siam; Burma; Assam; E. Himalayas; Philippines; Indo China; Formosa.

Ovoviviparous; feeds on lizards and frogs. Still common at elevations over 5000 feet.


*Psammodynastes pictus*, Boulenger, Cat. Sn. III 1896, p. 174 (s. syn.).

Internasals as long as or a little shorter than the prefrontals; frontal two and a half or three times as long as broad, narrower than the supraocular, as long as the parietals; loreal
as long as deep; two or three prae- and three or four post-oculars; eight upper labials, third to fifth entering the eye; third lower labial very large, bordering the mental groove behind the anterior chin-shields. Scales in 17 rows; ventrals 152—171; anal entire; subcaudals 60—80.

Yellowish, reddish or pale brown above, with dark transverse bands between two light stripes or a dark vertebral band; a dark streak on each side of the head, passing through the eye and across the rostral, edged above with white in young specimens. Lower surface whitish, speckled with brown and with brown dots. Length of head and body 400 mm.; tail 118 mm.

Nom. indig. Ular percha or U. bérang (Borneo).

Habitat: Simalur!; Sumatra (Perlak in Atjeh, Tandjong Morawa, Labuan, Medan!, Deli, Langkat, Gunung Sahilan!, Ajer bangis!); Banka; Biliton; Riou!; Borneo! (Sandakan Bay, Labuan, Mt. Dulit, Rejang river, Kuching, Kidi district, Kapuas river, Telang, Balikpapan). — Malay Peninsula.

47. Dryophis Dalman.


Head long, distinct from neck; canthus rostralis strong; lores
concave; eye large; pupil horizontal; nasal single, frontal narrow. 
Maxillary teeth 12—15, one or two middle ones enlarged, sepa-
rated from the posterior by an interspace; one or two last 
grooved, large and situated below the posterior border of the 
eye; three or four anterior mandibular teeth increasing in 
length, posterior small. Body long, compressed, covered with 
smooth scales, in 15 rows, without pits, oblique; the vertebral 
row enlarged; ventrals rounded. Tail long; subcaudals in 
two rows. 
Distribution. S. E. Asia. 
Arboreal; ovoviviparous.

Key to the Indo-Australian species.
A. Snout without appendage.
1. Less than 200 ventral shields; subcaudals 
2. Usually more than 200 ventral shields; sub-
   caudals 151—207.
   1. Frontal longer than the parietals; anal divided 
   2. Frontal as long as the parietals; anal usu-

1. Dryophis xanthozona Boie.

Dryophis xanthozona, Boie, Isis, 1827, p. 545.

Snout pointed, projecting, nearly twice as long as the eye; 
internasals in contact with the rostral; frontal longer than its 
distance from the tip of the snout, as long as the parietals; 
three or four small loreals in a row; a praecocular in contact 
with the frontal; two postoculars; temporals 2 + 2; eight or 
nine upper labials, fourth and fifth or fourth to sixth entering 
the eye; four lower labials in contact with the anterior chin-
shields; latter shorter than posterior. Scales in 15 rows; ventrals 
186—195; anal entire (rarely divided); subcaudals 115—156. 
Green or purple above; greenish or purplish below, with a 
yellow streak on each side and two indistinct stripes in the 
middle, separated by a purple streak. Length of head and 
body 752 mm.; tail 410 mm.

Habitat: Java (Depok, Salak, Kediri!). — Penang; W. Si-
amese Malay States.
Much rarer than the following species.
2. *Dryophis prasinus* Boie.

*Dryophis prasinus*, Boie, Isis, 1827, p. 545.

*Dryophis prasinus*, Boulenger, Cat. Sn. III 1896, p. 180 (s. syn.).

Snout sharply pointed, projecting, more than twice as long as the eye; internasals usually in contact with the labials; one to four small loreals in a row between the praefrontal and the labials; frontal as long as or a little longer than its distance from the tip of the snout, longer than the parietals; a praefocular, in contact with the frontal; two postoculars; temporals \(2 + 2\) or \(3 + 3\) \((1 + 2)\); nine upper labials, fourth to sixth entering the eye; four lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 15 rows, those of the sacral region usually keeled; ventrals 194—235; anal divided (rarely entire); subcaudals 151—207.

Green, olive or greyish-brown; skin of the neck black and white. Lower parts greenish or greyish; a yellow line on each side. Length of head and body 1190 mm.; tail 600 mm.

Nom. indig. Sawa lèul (Simalur); Oraj gadung (Sund., Buitenzorg); Puchok pisang, Ular daun (Kuching); Ulendui, baluntete and lewora (Toradja-names).
Habitat: Simalur!; Nias!; Mentawai Islands (Sipora); Sumatra (Sabang on Pulu Weh!, Atjeh, Bindjey, Labuan, Medan!, Brastagei!, Serdang!, Pangkalan Brandan!, Assahan, Langkat, Laut Tador; Bedagei; Battak Highlands! 800—1000 M., Indragiri, Djambi!, Kertadja and Tandjung Laut in Palembang, Gunung Sugei in Lampong district, Gunung Sahilan!, Sidjundjung!, Taluk!, Ringgat!, Kaju tanam!, Surian, Silago, Rau, Kalung!, Ajerbangis!, Padang, Agam, Padang Highlands!, Indrapura, Tandjong); Banka!; Riou!; Natuna Islands; Borneo (Bulangan river, Sandakan river, Mt. Dulit, Sebruang Valley, Buntok, Brooketon, Sadong, Banting, Kuching, Tegora, Busam, Landak!, Sintang, Singkawang, Pontianak, Bandjermassin!, Samarinda!, Kapuas river); Sibutu Island; Java (Tangerang!, Batavia, Buitenzorg!, Anjer, Mt. Salak, Depok, Preanger!, Sukabumi!, Pekalongan!, Gunung Ungaran!, Temanggung!, Ambarawa!, Salatiga!, Wonomobo, Malang!, Mount Wilis, Kraksaän!, Ngawi, Kediri!, Tengger Mts. 1200 M.); Lombok; Sumbawa; Buton; Celebes (Gorontalo, Minahassa, Manado!, Kema, Marapo river near Batulappa, Kandari, Muna Raha, Dongala Kabonga, Macassar!); Sangir Islands (Siao, Tabukan); Ternate. — Philippines; Indo China; Burma; Assam; Siam; Malay Peninsula; Penang; Singapore; E. Himalayas.

Feeds chiefly on lizards and frogs.

3. Dryophis fasciolatus (Fischer).

*Tragops fasciolatus*, Fischer, Arch. f. Nat. 1885, p. 66, pl. V, fig. 4.
*Dryophis fasciolatus*, Boulenger, Cat. Sn. III 1896, p. 182.

Snout pointed, projecting, about twice as long as the eye; internasals in contact with the first or second labial; frontal as long as or shorter than its distance from the tip of the snout, as long as the parietals; two or three loreals in a row; a praeocular in contact with the frontal; two postoculars; temporals 2 + 2 or 3; nine upper labials, fourth to sixth entering the eye; four lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 15 rows; ventrals 211—231; anal usually entire; subcaudals 178—194.

Grey above, with black spots, arranged in transverse bands anteriorly; shields of the head and labials with dark brown spots; a dark band from the rostral to the sides of the neck, passing through the eye. Lower surface with a grey, black-
edged band in the middle, a white streak on each side. Length of head and body 900 mm.; tail 500 mm.

Type-specimen examined in the British Museum.

Habitat: Sumatra (S. Atjeh, Labuan, Deli!, Padang 1500—3000 feet); Natuna Islands!; Borneo (Baram river, Kuching, S. E. Borneo!).

4. Dryophis mycterizans (L.).

Coluber mycterizans, Linne, Mus. Ad. Frid. 1754, p. 28, pl. V, fig. 1; pl. XIX, fig. 2. Dryophis mycterizans, Boulenger, Cat. Sn. III 1896, p. 182.

Snout pointed, projecting, ending in a dermal appendage formed by the rostral and shorter than the eye; snout without the appendage twice or more the diameter of the eye; internasals and praefrontals in contact with the labials; no loreal; frontal as long as the parietals or a little longer, in contact with the praecocular; two praecoculars; a subocular, or one praecocular and two suboculars; two postoculars; temporals 1 + 2 or 2 + 2; eight upper labials, fifth entering the eye; four lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 15 rows; ventrals 172—203; anal divided; subcaudals 140—174.

Green or pale brown above, the skin of the neck between the scales black and white; a yellow line on each side. Length of head and body 940 mm.; tail 560 mm.

Habitat: Java!. — Siam; Burma; Ceylon; India.

48. Dryophiops Boulenger.

(Boulenger, Cat. Sn. III p. 193, 1896).

Head distinct from neck, with distinct canthus rostralis; eye large; pupil horizontal; nasal entire; frontal narrow. Maxillary teeth 20, subequal, the last two or three slightly enlarged and grooved; anterior mandibular teeth enlarged. Body slender, compressed, covered with smooth scales, in 15 rows, oblique, with pits; ventrals with a keel and a notch on each side. Tail long; subcaudals in two rows, keeled and notched like the ventrals.

Distribution. S. E. Asia.

A single species.
1. Dryophiops rubescens (Gray).

*Dipsas rubescens*, Gray, Ill. Ind. Zool. II 1834, pl. LXXXIV, fig. 2.

*Dryophiops rubescens*, Boulenger, Cat. Sn. III 1896, p. 194 (s. syn.).

Rostral two times as broad as deep, just visible from above; internasals shorter than the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal long; one praecocular, in contact with the frontal; two or three postoculars; temporals 2 + 2; nine upper labials, fourth to sixth entering the eye; four or five lower labials in contact with the anterior chin-shields, posterior larger. Scales in 15 rows; ventrals 186—199; anal divided; subcaudals 111—136.

Reddish-brown above, with small black spots; on the head wavy longitudinal markings and a median streak on the occiput and neck; a dark streak on each side passing through the eye; labials with black spots. Lower surface yellow or greenish, reddish or brownish posteriorly, dotted with dark and with or without small dark spots. Length of head and body 540 mm.; tail 210 mm.

*Indo-australian Reptiles* II.
Habitat: Mentawei Islands (Sipora); Sumatra (Lower Langkat); Natuna Islands; Borneo (Sarawak, Sandakan, Sama-rinda!); E. Java (Sumber Arum!). — Penang; Malay Peninsula; Siam.
Arboreal.

49. Dipsadoïdes Annandale.


Head distinct from neck; eye large; pupil round; nasal undivided. Maxillary teeth 6, followed by a pair of moderate, almost vertical grooved teeth after an interspace; mandibular teeth subequal. Body strongly compressed, covered with 21 rows of scales with pits, the vertebral row enlarged; ventrals keeled on each side. Tail slender; subcaudals in two rows.

Distribution. Indo-Australian Archipelago.

A single species.

1. Dipsadoïdes decipiens Annandale.


Head small, flattened; snout short; eye prominent, almost as long as the snout; nostril large, directed backwards. Rostral more broad than deep, just visible from above; internasals larger than praefrontals; frontal more long than broad, as long as its distance from the tip of the snout, shorter than the parietals; praeocular large; postocular small; supraocular very large; loreal more deep than long; temporals 2 + 2; eight upper labials, third to fifth entering the eye; five lower labials in contact with the anterior chin-shields; latter followed by a second large pair, which are separated from one another 2). Scales narrow, oblique, in 21 rows, dorsal row enlarged; ventrals 258; anal entire; subcaudals 152.

Pale brown above, spotted and marbled with dark brown and dull yellow, and with irregular dark bars; head marbled with dark brown and with dark brown spots. Lower surface dull yellow, marbled posteriorly with dark brown; chin and throat spotted with dark brown. Length of head and body 603 mm.; tail 265 mm.

1) In the original description: 19 rows.
2) In the description: both in contact with their neighbours.
Type-specimen received from the Indian Museum, Calcutta, examined.

Habitat: "Malay Archipelago"! (Java?). Only one single specimen known.

Fig. 81. Dipsadoides decipiens Annandale. × ⅓, Side view of head.


(Boie, Isis, p. 520, 1827).

Head distinct from neck; eye large; pupil round. Maxillary teeth 20—22, last three longest and grooved; anterior mandibular teeth longest. Body long, compressed, covered with smooth or feebly keeled scales, oblique, with pits, in 17 rows; ventrals with a keel and a notch on each side. Tail long; subcaudals in two rows, keeled and notched.

Distribution. S. E. Asia.

The tree-snakes belonging to the genus Chrysopelea are known as Flying-Snakes, because they can suddenly descend from trees, keeping their bodies very rigid. The part of the ventral scales between the lateral keels can be made concave.

Key to the Indo-Australian species.

A. Three or more dorsal rows of scales feebly keeled;
   subcaudals 146—186; ventrals 192—221. . . . 1. C. rhodopleuron p. 212.
Scales smooth or feebly keeled; subcaudals 106—139; ventrals 198—238. 2. *C. ornata* p. 212.

C. Scales smooth; subcaudals 98—120; ventrals 181—199. 3. *C. chrysochlorda* p. 214.

1. **Chrysopelea rhodopleuron** Boie.

*Chrysopelea rhodopleuron*, Boie, Isis, 1827, p. 547.

*Chrysopelea rhodopleuron*, Boulenger, Cat. Sn. III 1896, p. 195 (s. syn.).

Snout depressed; rostral more broad than deep, just visible from above; internasals shorter than prefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; loreal long; a praeocular, sometimes in contact with the frontal; two postoculars; temporals 2 + 2; nine upper labials, fifth and sixth entering the eye; four or five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 17 rows, three or more median rows feebly keeled; ventrals 192—221; anal divided; subcaudals 146—186.

Olive-brown, greenish or black above, without or with light centres in the scales; outer row of scales and sides of ventrals sometimes red, black-edged; a dark streak on each side of the head; upper lip white. Lower surface pale green or yellow, often with a black streak along the tail. Length of head and body 780 mm.; tail 380 mm.

**Habitat:** Sangir Islands; Batjan!; Misol; Ceram!; Buru; Ambon!; Banda; Timor Laut.

2. **Chrysopelea ornata** (Shaw).


*Chrysopelea ornata*, Boulenger, Cat. Sn. III 1896, p. 196 (s. syn.).

Snout depressed; rostral more broad than deep, visible from above; internasals about as long as prefrontals; frontal almost as long as its distance from the tip of the snout, as long as or a little shorter than the parietals; loreal long, sometimes fused with the prefrontal; a praeocular, often in contact with the frontal; two postoculars; temporals 2 + 2; nine or ten upper labials, fifth and sixth or fourth to sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 17 (rarely 15) rows, smooth or feebly keeled; ventrals 198—238, last often divided; anal divided; subcaudals 106—139.
Fig. 82. *Chrysopelca ornata* (Shaw). Nat. size. Side view of head.
Coloration variable. Black above, each scale with a round greenish or yellowish spot, the vertebral spots sometimes forming a stripe anteriorly, or green above, the scales black-edged; often coral-red spots on the back, in groups of four; head black, with yellow transverse bands and spots. Lower surface greenish or yellowish, ventrals often edged with black. Young specimens green, with black transverse bands, or pale brownish with black and yellow bars on head and nape; a series of small black spots on the middle of the back; a series of transverse vermilion spots on the posterior part of the body. Beneath pale olive with black lateral keels. Length of head and body 810 mm.; tail 310 mm.

Nom. indig. Ular jelotong (mal.); ule alo (Toradja-name).

Habitat: Nias; Mentawei Islands (Sipora); Sumatra (Atjeh, Medan!, Stabat, Assahan, Labuan, Langkat, Laut Tador, Indragiri, Djambi!, Kertadjaja and Tandjung Laut in Palembang; Gunung Sahilan!, Indrapura, Padang 1500—3000 feet); Banka!; Riou; Natuna Islands; Borneo (Bulangan river, Baram river, Labuan, Mt. Dulit, Braang, Kuching, Sarawak, Oya, Rejang river, Batang Lutar, Buntok, Sungei Duri, Singkawang, Pontianak, Bandjermassan!, Samarinda!, Muara Djawa!); Java! (Batavia, Tengger Mts. 1200 M.); Celebes (Gorontalo, Manado!, Kema, Marissa, Posso!, Kandari, Macassar). — Sulu Islands; Philippines; Malay Peninsula; Singapore; Penang; Andamans; S. China; Siam; Burma; India; Ceylon.

Feeds on lizards (Geckos) and frogs, sometimes on bats. Diurnal. The female lays 6—8 white, long-cylindrical eggs.

3. Chrysopelea chrysochlorora (Schleg.).

Chrysopelea chrysochlorora, Boulenger, Cat. Sn. III 1896, p. 198 (s. syn.).

Snout not much depressed; rostral more broad than deep, visible from above; internasals as long as or slightly shorter than praefrontals; frontal a little longer than its distance from the tip of the snout, shorter than the parietals; loreal about twice as long as deep; a praecocular, in contact with or separated from the frontal; two postoculars; temporals 2 + 2; nine upper labials, fifth and sixth or fourth to sixth entering the eye; five lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 17 rows, smooth;
ventrals 181–199, last often divided; anal divided; subcaudals 98–120.

Red or orange above, with pairs of black transverse bands, bordering a narrow white band; head olive-brown with one to three red transverse bands; on each side of the head a black line; lips yellow. Lower surface olive-green, sides of ventrals yellow, lateral keels dark. Length of head and body 510 mm.; tail 190 mm.; reaches a total length of 739 mm.

Habitat: Nias; Pulu Nako!; Sumatra (Labuan, Medan!, Serdang!, Langkat, Laut Tador, Bedagei, Indragiri, Muara Rupit in Palembang, Taluk!, Kaju tanam); Banka!; Natuna Islands; Borneo (Kuching, Sarawak, Samarinda!); Java!. — Malay Peninsula; Singapore; Penang; Burma; Bengal.

Subfamily Hydrophiinae.

Key to the Indo-Australian genera.

A. Ventral shields large.
   II. Nostrils superior; nasals in contact. ............ 52. Aipysurus p. 218.

B. Ventral shields, if distinct, very small.
   I. A deep groove in the chin, partly concealing the narrow mental shield. .............. 53. Enhydrina p. 220.
   II. No mental groove; mental shield triangular.
      a. Internasals separating the nasals; scales juxtaposed .............. 54. Thalassophis p. 222.
      b. Nasals in contact.
         2. Ventral shields distinct, or in the anterior part of the body only; scales imbricate in the anterior part of the body. .............. 56. Hydrophis p. 225.
         3. Ventral shields distinct, at least in the anterior part of the body; scales all juxtaposed, the lower three or four rows enlarged. 57. Enhydris p. 240.

Poisonous marine snakes (except a Hydrophis species, which occurs in a freshwater lake in Luzon), never leaving the water, with the exception of Platurus and perhaps Aipysurus; viviparous. Feeding on fish and crustaceans.

Tail strongly compressed; rostral with two notches, only the two ends of the tongue protrusible; maxillary teeth grooved

Nom. ind ig. Ular laut.

51. **Platurus** Daudin.

*(Daudin, Rept. VII p. 223, 1803).*

Nostrils lateral; eye small; pupil round; nasals separated by internasals; head-shields large; praeocular present; loreal absent. Maxillary teeth two large fangs separated from one or two small teeth. Body long, covered with smooth, imbricate scales in 19—25 rows; ventrals large. Tail strongly compressed.

**Distribution.** Indian Ocean and West Pacific Ocean.

**Key to the species.**

- A. Rostral in contact with five shields; scales in
- B. Rostral in contact with six shields.
  - I. Frontal in contact with six shields; scales
  - II. Frontal in contact with seven shields; scales

1. **Platurus schistorhynchus** Günther.


Rostral more broad than deep, in contact with five shields; praefrontals with a third shield in a transverse row, not reaching the labials; frontal longer than the parietals, in contact with seven shields; supraoculcals entire; parietals entire; nasals lateral, in contact with the three anterior labials; one prae- and two postoculars; temporals small, 2 + 3; seven upper labials, third and fourth entering the eye; anterior chin-shields distinct, posterior indistinct and separated. Scales smooth, in 21—23 rows; ventrals 178—200, three or more times as broad as the last row of scales, the last one or two often divided, the posterior with a median keel; anal divided.

Yellowish or greyish above, with blackish bands, 25—45 annuli. Lower surface yellowish. Length of head and body 1195 mm.; tail 114 mm.

**Habitat:** Java; E. Flores!; Pulu Kambing in Lobetobi strait!; Ambon!; New Guinea (Bertrand Island on the north coast). — Loo Choo Islands; Savage Island; Society Islands; Samoa.
2. Platurus laticaudatus (L.).

*Coluber laticaudatus*, Linné, Mus. Ad. Frid. 1754, p. 31, pl. XVI, fig. 1.

Rostral more deep than broad, in contact with six shields; two internasals and two praefrontals, separated from the labials; frontal not longer than the parietals, in contact with six shields; supraoculars entire; parietals entire; nasals lateral, in contact with the two anterior labials; one prae- and two postoculars; temporals 1 + 2; seven or eight upper labials, third and fourth entering the eye; two pair of chin-shields, both in contact. Scales smooth, in 19 rows, vertebrals enlarged in the posterior part of the body; ventrals 210—246, the last ventral sometimes divided; anal divided.

Olive or greyish above, with 29—48 black annuli. Lower surface yellowish. Length of head and body 880 mm.; tail 90 mm.

Habitat: Pulu Babi; Nias; Sumatra (Sabang on Pulu Weh!, Atjeh!, Serdang, Gunung Sugei in Lampong district); Java; Flores; Timor!; Borneo; Ternate; Halmahera; Aru Islands; New Guinea; Schouten Islands (Mysore). — Australia; New Hebrides; Fiji Islands; Loo Choo Islands; China; Philippines; Siam; Bengal.

3. Platurus colubrinus (Schneider).

*Platurus colubrinus*, Boulenger, Cat. Sn. III 1896, p. 308.

Rostral more deep than broad, in contact with six shields; two internasals; praefrontals with a third shield in a row, separated from the labials; frontal as long as or shorter than the parietals, in contact with seven shields; supraoculars and parietals entire; nasals lateral, in contact with the two or three anterior labials; one prae- and two postoculars; temporals 1 + 2 or 2 + 2; six or seven upper labials, third and fourth entering the eye; two pair of chin-shields, both in contact. Scales smooth, in 21—25 rows; ventrals 195—245, the last or two often divided; anal divided.

Olive-brown above, with 28—54 black annuli, sometimes interrupted below. Lower surface yellowish. Length of head and body 1145 mm.; tail 125 mm.; reaches a length of 1.60 M.
Habitat: Pulu Babi!; Engano; Sumatra (Atjeh!, Siboga!); Borneo (North coast); Java; Lamakera on Solor!; Flores!; Rotti!; Timor; N. Celebes!; Ternate; Halmahera; Ambon!; Buru; Kur!; Kei Islands!; Aru Islands; Salawatti; New Guinea (Jobi, Sorong; Dorei, Mansinam, Kaiser Wilhelmsland!, Bore-

![Snake Image](image)

Fig. 83. *Platurus colubrinus* (Schn.). $\times \frac{2}{3}$.

pata); Schouten Islands (Mysore). — Australia; New Zealand; Fiji Islands; New Caledonia; New Hebrides; Solomon, Admi-
ralty and Pelew Islands; Sulu Islands; Philippines; China; Penang; Singapore; Andamans; Nicobars.

This snake is sometimes found out of the water.

52. *Aipysurus* Lacépède.

(LACÉPÈDE, ANN. MUS. IV p. 197, 1804).

Snout short; nostrils superior; eye small; pupil round; head-
shields large or broken up into scales; nasals in contact. Maxillary teeth two fangs, separated by a short interspace
from 8—10 grooved teeth; anterior mandibular teeth feebly
grooved. Body moderate, covered with smooth or keeled, imbricate scales in 17—25 rows; ventrals large, keeled in the
middle. Tail strongly compressed.

Distribution. Western Tropical Pacific Ocean; Indo-Austra-
lian Archipelago.

**Key to the species.**

A. Scales in 17 rows; head covered with shields . . . 1. *A. eydouxi* p. 219.

B. Scales in 19 rows; head covered with small scales. 2. *A. australis* p. 219.

C. Scales in 21—25 rows; head-shields more or less

broken up . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3. *A. lacvis* p. 220.
1. Aipysurus eydouxi (Gray).

*Tomogaster eydouxi*, Gray, Cat. 1849, p. 59.

Rostral more broad than deep, in contact with four shields; praefrontals usually undivided, separated from the labials; frontal longer than its distance from the tip of the snout, as long as or longer than the parietals, in contact with six shields; nasal in contact with the first and second upper labials and with the praecocular or narrowly separated from the latter; one praec- and two postoculare; temporals 1 + 2 or 2 + 2; six upper labials, fourth entering the eye; anterior chin-shields shorter than the posterior, which are separated by a shield. Scales smooth, in 17 rows; ventrals 134—142, with a median tubercle on each shield.

Dark brown above, with transverse bands of yellow, black-edged scales, often interrupted on the vertebral line; the bands widening towards the flanks. Lower surface yellow, sometimes with dark brown spots. Length of head and body 479 mm.; tail 80 mm.

Habitat: Java (Cheribon, Probolinggo!); Borneo!; New Guinea (Lorentz river!). — Singapore; Philippines.


*Aipysurus australis*, Boulenger, Cat. Sn. III 1896, p. 305.

Shields of the head broken up into small and irregular scales with small granular tubercles. Rostral more broad than
deep, in contact with four shields; nasal in contact with the first and second upper labials; eight or nine upper labials, fifth sometimes entering the eye, which is bordered by 8 or 9 small shields; the anterior five or six labials well developed, the others divided; chin-shields small, indistinct. Scales smooth or obtusely keeled, in 19 rows; ventrals 156—166.

Brown or yellowish with brown spots, forming irregular transverse bars. Length of head and body 820 mm.; tail 110 mm.

Habitat: New Guinea (Yule Island). — Australia!

3. **Aipysurus laevis** Lacépède.

*Aipysurus laevis*, Lacépède, Ann. Mus. IV 1804, p. 197, 210, pl. LVI, fig. 3. *Aipysurus laevis*, Boulenger, Cat. Sn. III 1896, p. 305 (s. syn.).

Rostral more broad than deep; praefrontals in a single row of four or a double row of three or four, not in contact with the labials; frontal more long than broad or broken up; supraocular divided into two; parietals broken up; nasals separated from the labials; one to three prae- and two or three postoculars; seven to ten upper labials, fourth to sixth entering the eye, if not broken up; two small pair of chin-shields, both or the posterior only separated by scales. Scales smooth, in 21—25 rows, vertebrals sometimes enlarged; ventrals 137—162, sometimes with an obtuse keel posteriorly; anal divided.

Brown, uniform or with small dark spots. Length of head and body 1550 mm.; tail 170 mm.

Habitat: Arafura Sea; Kei Islands!; Aru Islands; New Guinea. — Torres Straits; Cape York; Queensland; Loyalty Islands.

53. **Enhydrina** Gray.

(Gray, Cat. Sn. p. 47, 1849).

Nostrils superior; eye small; pupil round; head-shields large; nasals in contact; a praecocular; no loreal; mental shield narrow, partly concealed in a deep groove (fig. 85). Maxillary teeth 2 large fangs, followed by four teeth. Body moderate, covered with imbricate scales; ventrals small. Tail strongly compressed.

1. **Enhydrina valakadyn** (Boie).

*Hydrus valakadyn*, Boie, Isis, 1827, p. 554.

Rostral more deep than broad, in contact with four shields; frontal more long than broad, shorter than the parietals; nasals in contact with the two anterior labials; sometimes partially divided; one praec- and one or two postoculars; temporals 1—3; seven or eight upper labials, fourth or third and fourth

entering the eye, the last sometimes divided; anterior chin-shields rather indistinct, separated. Scales with a tubercle or keel, in 50—70 rows; ventrals 230—314, slightly enlarged.

Uniformly dark grey above; sides and lower parts whitish. Young specimens olive or grey with black transverse bands, broadest in the middle. Length of head and body 1110 mm.; tail 190 mm.

**Habitat**: Sumatra! (Bagan Api Api!, Banju asin in Palembang); Java (Cheribon Sea!, Semarang!, E. Java); Borneo! (Baram, Santubong, Sarawak river, Trusan river, Kuching, Buntal); Moluccas!; New Guinea (South coast). — Persian Gulf; India; Burma; W. Ceylon; Penang; Singapore; Malay Peninsula; Siam.
54. **Thalassophis** Schmidt.


Snout short; nostrils superior; nasals separated by the inter-

Fig. 86. *Thalassophis anomalus* Schmidt. $\times \frac{4}{5}$. Side view of head.

nasals; eye small; pupil round; praecocular present; no loreal. Maxillary teeth two fangs followed by 5 small teeth. Body
long, covered with hexagonal, juxtaposed scales. Ventrals small, equal or smaller than the last row of scales. Tail strongly compressed.

Distribution. Siak; Java; Borneo; Moluccas.

**Key to the Indo-Australian species.**

A. Rostral broken up into scales; parietals large;
scales in 31—33 rows . . . . . . . . . . . . . . . . . . . . . . . . 1. *Thalassophis anomalus* p. 223.

B. Rostral more broad than deep; parietals small,
separated by scales; scales in 89—100 rows . . . 2. *T. annandalei* p. 223.

1. *Thalassophis anomalus* Schmidt.


*Thalassophis anomalus*, Boulenger, Cat. Sn. III 1896, p. 269.

Rostral broken up into small shields; internasals narrow, longer than the praefrontals; latter usually in contact with the second labial; frontal small, entire or divided; supraoculars entire; parietals large; nasals in contact with the two anterior labials; one prae- and two postoculars; temporals small; seven to nine upper labials, third and fourth entering the eye, which is sometimes separated by suboculars from the fourth and fifth labials; two pair of chin-shields, the posterior usually entirely separated. Scales with a strong tubercular keel, in 31—33 rows, juxtaposed; ventrals small, with two keels.

Yellowish, with dark annuli, widest on the back, or with black bands on the back, not reaching the belly. Length of head and body 726 mm.; tail 84 mm.

Habitat: Siak E. off Sumatra!; coast of Java (Cheribon!); Borneo (Sarawak); Moluccas!.

2. *Thalassophis annandalei* (Laidlaw).


Rostral more broad than deep; nasals small, separated by the internasals, which are large and widen in front behind the rostral; praefrontals small; frontal and supraocular large; one or two prae- and one or two postoculars; parietals small, separated from one another and sometimes from the frontal by small scales; temporals small, numerous; nine to twelve
upper labials; chin-shields usually broken up into scales. Body short and stout, compressed behind the neck; scales very small, juxtaposed, in 89—100 rows, dorsals with a central tubercle or keel; ventrals small, 310—370.

Pale olive-grey above, with dark transverse bars narrower than the interspaces and tapering to a point on the sides. Lower surface white. Length of head and body 520 mm.; tail 80 mm.

Habitat: Java (mouth of the Mengala river!). — Malay Peninsula.

55. **Hydrus** Schneider.

*(Schneider, Hist. Amph. I p. 233, 1799)*.

Snout long; nostrils superior; eye small; pupil round; head-shields large; nasals in contact; praecocular present; no loreal. Maxillary teeth two fangs, separated by a short interspace from 7—8 smaller teeth. Body short, covered with juxtaposed scales; ventrals indistinct.

Distribution. Indian and Pacific Oceans.

A single species.

1. **Hydrus platurus** (L.).


*Hydrus platurus*, Boulenger, Cat. Sn. III 1896, p. 267 (s. syn.).

Rostral as deep as broad or a little more broad; nasals large, superior; praefrontals in contact with the second labial; frontal large, at least as long as the parietals; one or two praec- and two or three postoculars; sometimes one or two suboculars; temporals small; seven or eight irregular upper labials, fourth and fifth usually entering the eye; chin-shields small or indistinct. Scales smooth in the female and young, laterals and ventrals with one to three tubercles in the male, in 45—47 rows, juxtaposed.

Yellow above, with brown, black-edged bands across the
body, sometimes with a black median stripe anteriorly and transverse rhombs posteriorly or entirely black above; tail with or without dorsal and lateral spots. Lower surface and sides yellow with a lateral series of black spots or a black stripe, or belly brown with a yellow lateral stripe. Length of head and body 620 mm.; tail 80 mm.

Habitat: Sumatra; Banka!; Borneo! (Oya in Sarawak); Java coast (Batavia, Semarang!); Strait of Madura; Sailus Ketjil!; S. Flores!; S. W. Sumba!; Celebes (Manado!, Macassar!); Ambon!; Ternate; New Guinea (Jobi, Mafoor, Mios nom, Mansinam, Tami); Schouten Islands (Mysore). — Solomon Islands; Australia; New Zealand; Samoa; Formosa; China; Siam; Nicobars; Singapore; Malay Peninsula; Ceylon; India; Madagascar; Panama; Mexico; Ecuador.

The most widely spread sea-snake.

56. Hydrophis Daudin.


Nostrils superior; eye small; pupil round; head-shields large; nasal single or divided, in contact with its fellow; praecocular present; loreal usually absent. Maxillary teeth two large fangs followed by 4—18 small teeth. Body long, often very slender anteriorly, covered with imbricate or juxtaposed scales; ventrals small. Tail strongly compressed.

Distribution. Indian and Pacific Oceans.
Key to the Indo-Australian species.

A. Head very small; neck very slender.
   I. Two superposed anterior temporals.
   II. A single anterior temporal.
      a. Frontal as long as its distance from the rostral.
         1. Scales in 29—37 rows round the body.
            ×× 37 scales round body; ventrals 298—321. 4. H. flowerei p. 229.
         2. Scales in 40—50 rows round body.
            aa. 31—40 scales round the neck; 40—50 round the body; ventrals 310—438 .... 5. H. diadema p. 229.
            bb. 25—31 scales round the neck; 40—48 round the body; ventrals 345—500 ... 6. H. fasciatus p. 230.
            cc. 30 scales round the neck; 42 round the body; ventrals 416 ............ 7. H. brookei p. 230.
      b. Frontal shorter than its distance from the rostral.

B. Head moderately small; neck not very slender.
   I. Anterior ventrals three or four times as broad as the last row of scales ........... 9. H. viperinus p. 231.
   II. Anterior ventrals not more than twice as broad as the last row of scales.
      a. One anterior temporal.
         2. Scales round the body in more than 21 rows.
            †† Ventrals 270—354.
            bb. Scales round body in 32—40 rows.
      b. Two or three superposed anterior temporals.
         1. Scales round body in 34—50 rows; ventrals squarish.
            × Second pair of chin-shields, if distinct, separated by several scales.
            bb. Two or three postoculars ....... 17. H. ornatus p. 236.
Second pair of chin-shields in contact or separated by one scale.

Scales all imbricate.


Scales on posterior part of body juxtaposed.

a. 34 scales round body; ventrals 317. 21. *H. belcheri* p. 238.

b. 38 or 39 scales round body;

ventrais 258—260 . . . . . . . . 22. *H. pachycercus* p. 239.

Scales round body in 48—59 rows; ventrals usually in pairs, except anteriorly, not larger than the scales and pointed . . . . . . . . 23. *H. stokesi* p. 239.


*Hydrophis frontalis*, Jan, Elenco 1863, p. 110.


Head very small; rostral more broad than deep; praefrontals separated by the point of the frontal; latter more long than broad, as long as its distance from the tip of the snout, shorter than the parietals; one praec- and one postocular; two superposed anterior temporals; seven upper labials, third and fourth entering the eye; chin-shields small, the posterior separated. Body very slender anteriorly, scales rhomboidal, imbricate, with a strong keel, in 42—45 rows (34 or 35 anteriorly); ventrais 285—291.

Yellowish-white, with greyish transverse bars, broadest on the back; head blackish, a yellow band above and behind the eye. Length of head and body 630 mm.; tail 65 mm.

Type-specimen examined in the Leiden Museum.

Habitat: Indian Ocean!; Java (Batavia, Pasuruan!).

2. *Hydrophis nigrocinctus* Daudin.


Head small; eye as long as its distance from the mouth. Rostral more broad than deep; nasals shorter than the frontal, about twice as long as the suture between the praefrontals, which are separated from the labials; frontal more long than
broad, as long as its distance from the tip of the snout; one prae- and one or two postoculars; two superposed anterior temporals; seven upper labials, third and fourth, third to fifth or fourth and fifth entering the eye or some of them divided; posterior chin-shields separated. Body long, slender anteriorly; scales imbricate, keeled, in 39 rows (27—29 anteriorly); ventrals 310—331, entire.

Olive above, yellow beneath, with 42—62 black annuli, broader on the back; upper lip with a curved black streak; head dark on the crown, with a yellow marking from the rostral above the eyes to the temporal region; a short lateral black band on the neck. Length of head and body 900 mm.; tail 100 mm.

Habitat: Ternate 1). — Bay of Bengal; Strait of Malacca; Malay Peninsula; Siam.

3. Hydrophis gracilis (Shaw).

Hydrus gracilis, Shaw, Zool. Ill 1802, p. 560.

Head very small; snout projecting; eye at least as long as its distance from the mouth. Rostral as deep as broad; prefrontals usually touch the second upper labial; frontal very small, more long than broad, about as long as its distance from the rostral; one prae- and one or two postoculars; a large anterior temporal, in contact with the fifth and sixth labials, followed by another large shield; six upper labials, third and fourth entering the eye; both pairs of small chin-shields in contact. Body long, extremely slender anteriorly; scales with two or more tubercles, which are strong in males, imbricate anteriorly, juxtaposed posteriorly, in 29—33 rows (19—21 anteriorly); ventrals 225—298, entire anteriorly, grooved or divided posteriorly.

Black or olive above, with indistinct lighter transverse bands anteriorly. Young specimens with the head and neck black, neck with light bands; body with 42—61 rhombic bands continued to the belly or nearly interrupted on the sides, or black with elliptical vertical white spots on the sides. Length of head and body 930 mm.; tail 90 mm.

Habitat: Java; Madura; Borneo; Indian Ocean 1. — Gulf of

Persia; India; Burma; Tenasserim; Siam; Malay Peninsula; Singapore.


Head very small; rostral more broad than deep; frontal one time and a half as long as broad, as long as its distance from the rostral, much shorter than the parietals; one prae- and one postocular; a single anterior temporal; six or seven upper labials, third and fourth entering the eye; two pairs of chin-shields, the posterior separated. Body very slender anteriorly; scales imbricate, almost smooth on the neck, keeled on the body, in 37 rows (27 anteriorly); ventrals distinct, 298—321.

Dark olive or black above, with 69 yellow transverse bars on body and tail, narrower than the interspaces; head with a yellow band from eye to eye across the snout and a yellow band behind the eye; small yellow markings on the crown. Length of head and body 820 mm.; tail 80 mm.

Type-specimen examined in the British Museum.

Habitat: Borneo (Brunei Bay!).

5. Hydrophis diadema Gthir.

Hydrophis diadema, Günther, Rept. Br. Ind. 1864, p. 373, pl. XXV, fig. S.
Hydrophis obscurus, Boulenger, Cat. Sn. III 1896, p. 284.
Hydrophis diadema, Boulenger, Rept. Malay Penin. 1912, p. 188.

Head very small; eye as long as its distance from the mouth. Rostral more broad than deep; frontal more long than broad, as long as its distance from the rostral or the tip of the snout; one prae- and one or two postoculars; a single anterior temporal; seven or eight upper labials, third and fourth entering the eye; posterior chin-shields small and usually separated. Body long, extremely slender anteriorly; scales imbricate, rhomboidal, feebly keeled in the female, strongly in the male, the keels often broken up in tubercles, in 40—50 rows (31—40 anteriorly); ventrals 310—438, feebly enlarged, with two keels in the male.

Olive or dark green above, with yellowish transverse bars, forming complete rings in the anterior part, interrupted on the back more behind; or pale olive with dark bands, forming rings in front; a yellow spot on the snout and a yellow streak
on each side of the head. Length of head and body 865 mm.;
tail 105 mm.

Habitat: Borneo!. — Bay of Bengal; Pegu; Gulf of Siam.

6. Hydrophis fasciatus (Schneider).


Head very small; eye a little longer than its distance from
the mouth. Rostral almost as deep as broad; praefrontals usually
in contact with the second upper labial; frontal more long than
broad, as long as its distance from the rostral; one prae- and
one or two postoculars; a single anterior temporal; six or
seven upper labials, third and fourth entering the eye; both
pairs of chin-shields in contact. Body long, very slender ante-
riorly; scales imbricate, sometimes juxtaposed posteriorly,
smooth on the neck, with a tubercle or keel on the body, in
40—48 rows (25—31 anteriorly); ventrals 345—500, entire.

Pale above, with 48—71 black bands or annuli, sometimes
expanded vertebrally and lost ventrally in old specimens;
head and neck black; neck with yellow transverse bands.
Length of head and body 915 mm.; tail 85 mm.

Habitat: Sumatra! (Bantung river near Tandjung Laut
in Palembang); Borneo (coast of N. Borneo); Java (Cheribon
Sea!, Pasuruan!); Aru Islands; New Guinea (Kaiser Wilhelms-
land). — Coasts of India, Siam, China; Penang.


Hydrophis brookii, Boulenger, Cat. Sn. Ill 1896, p. 282.

Head very small; rostral more broad than deep; praefrontal
in contact with the second labial; frontal more long than
broad, as long as its distance from the tip of the snout, much
shorter than the parietals; one prae- and one postocular; a
single anterior temporal, followed by another large one; six
upper labials, third and fourth entering the eye, second largest;
both pairs of chin-shields in contact. Body long, extremely
slender in the fore part, covered with rhomboidal, imbricate
scales, smooth on the neck, with a tubercle or keel on the
body, in 42 rows (30 anteriorly); ventrals 416, feebly enlarged.
Black above, with yellow rings on the anterior part of the body, the anterior rings interrupted beneath; posterior part with narrow olive interspaces above between black broad rings, and broader yellow interspaces below; head black, with a horse-shoe-shaped yellow marking. Length of head and body 87.5 mm.; tail 95 mm.

Type-specimen examined in the British Museum.

Habitat: Borneo! (Sarawak river).

Note. The female specimen in the British Museum contained young ones with the praefrontals in contact.


Head small; eye as long as its distance from the mouth. Rostral more broad than deep; nasals longer than the frontal, at least twice as long as the suture between the praefrontals; frontal small, shorter than its distance from the rostral; one praefrontal and one postocular; a single anterior temporal; six or seven upper labials, third and fourth entering the eye, some of the posterior may be divided; posterior chin-shields separated or in contact. Body long, very slender anteriorly; scales imbricate, keeled, in 43—45 rows (33—35 anteriorly); ventrals 240—290, mostly entire.

Greyish-olive above, yellow below, with black annuli, narrower on the sides; head dark, with a curved yellow marking from the temporal region passing above the eye, to the nasals. Length of head and body 510 mm.; tail 50 mm.

Type-specimens examined in the British Museum.

Habitat: „East Indies“!; Sumatra (Bagan Api Api!) — Bay of Bengal; Strait of Malacca.

9. Hydrophis viperinus (Schmidt).


Head small; rostral as deep as broad; nasals as long as or shorter than the frontal; suture between the praefrontals very short; they are separated from the labials; frontal as broad as long, as long as its distance from the rostral or the tip of
the snout, shorter than the parietals, two or three times as broad as a supraocular; one or two prae- and one or two postoculars; one or two anterior temporals; seven or eight upper labials, often the posterior divided, fourth, third and fourth or third to fifth entering the eye, second largest; both pairs of chin-shields in contact, posterior largest. Body moderate, slender anteriorly; scales juxtaposed, obtusely keeled, in 37—43 rows (27—29 anteriorly); ventrals 235—267, entire, with two keels in the male.

Grey above, uniform or with 26—37 black dorsal bars, sometimes confluent vertebrally, or with rhomboidal black spots. Lower surface white or pink. Young specimens completely banded; end of tail black. Length of head and body 820 mm.; tail 100 mm.

Habitat: Indian Ocean!; Java ¹); Borneo (Oya) ²). — Gulf of Persia; Burma; Siam; Hongkong; Hainan.

10. Hydrophis jerdoni (Gray).

*Kerilia jerdonii*, Gray, Cat. Sn. 1849, p. 57.

*Distira jerdonii*, Boulenger, Cat. Sn. III 1896, p. 299.


Head short; snout rather pointed; eye as long as its distance from the mouth. Rostral as deep as broad; nasals shorter than the frontal, more than twice as long as the suture between the praefrontals; frontal more long than broad, almost as long as its distance from the tip of the snout; one prae- and one postocular; anterior temporal large, bordering the lip; five upper labials anterior to the temporal, third and fourth entering the eye; one or two pair of chin-shields. Body moderate; scales strongly keeled, imbricate, in 19—21 rows (15—17 anteriorly); ventrals 224—238, entire, with two keels.

Olive above, with 31—41 black transverse bands, forming rings in young specimens; a black spot between each pair of rings may be present. Lower surface yellowish. Length of head and body 810 mm.; tail 100 mm.

Habitat: Borneo (Pontianak river); Indian Ocean!. — Coasts of the Malay Peninsula!; Siam; Penang; Bay of Bengal.

¹) Boulenger, Cat. p. 299.


Head moderate; rostral more broad than deep; nasals much shorter than the frontal, more than twice as long as the suture between the praefrontals; frontal almost as long as the parietals; one praefrontal and one postocular; a single anterior temporal, not reaching the border of the lip; six upper labials, third and fourth under the eye, second deepest, in contact with the praefrontal; both pairs of chin-shields in contact, posterior longest. Body not very long; scales imbricate, with two or three small tubercles, in 39 rows; shields of the head with small granules; ventrals 159, the posterior obtusely keeled.

Blackish-olive above, with 46 yellow rings on the body, 10 on the tail; the yellow scales of the back speckled with olive-grey; some of the rings are oblique and alternate on the belly; all the rings narrowed on the back and the belly; shields of the head with yellow spots, rostral and labials black. Total length 380 mm. (After Roux; not seen by me).

**Habitat:** Aru Islands (Sungi Waskai on Wokam).


*Hydrophis polyodontus*, Jan, Icon. gén. 41 1872, pl. i, fig. 1.

*Hydrophis polyodontus*, Boulenger, Cat. Sn. III 1896, p. 274.

Head small; rostral more broad than deep; frontal slightly more long than broad, as long as its distance from the rostral, much shorter than the parietals; one praefrontal and two postoculars; one anterior temporal; seven upper labials, second large, third and fourth entering the eye; both pairs of chin-shields in contact. Body long, scales juxtaposed, with a small tubercle, in 45 rows; ventrals 312.

Yellowish above with black transverse rhomboidal spots; head black. Lower surface black. Length of head and body 345 mm.; tail 33 mm.

**Habitat:** Java (Probolingo!).


*Hydrophis brugmansii*, Boie, Isis, 1827, p. 554.

*Distira brugmansii*, Boulenger, Cat. Sn. III 1896, p. 292.

Head moderate; eye shorter than its distance from the mouth. Rostral more broad than deep; nasals shorter than the frontal, about twice as long as the suture between the praefrontals; frontal much more long than broad, as long as its distance from the rostral or the tip of the snout; one praeco- and one or two postoculars; a single large anterior temporal, sometimes reaching the border of the mouth; seven upper labials, third and fourth or third to fifth entering the eye; both pairs of chin-shields in contact. Body long; scales imbricate, smooth or with a tubercle or keel, in 32—40 rows (27—31 anteriorly); ventrals distinct, smooth or with two tubercles, 300—354.

Greenish-yellow above, the scales with black margins, with narrow black bands or annuli; sides and lower parts yellow; head yellow; end of tail black. Length of head and body 1680 mm.; tail 120 mm.

Type-specimen examined in the Leiden Museum.

Habitat: Borneo! (Muka); Sumba (Taraba Bay!); Celebes (Macassar!); Waigeu!; New Guinea; Indian Ocean! — Persian Gulf; Penang!; Philippines.

Fig. 89. *Hydrophis brugmansi* Boie.

14. *Hydrophis spiralis* (Shaw).

*Hydrus spiralis*, Shaw, Zool. III 1802, p. 564, pl. CXXV.


Head moderate; eye shorter than its distance from the mouth. Rostral more broad than deep; praefrontals usually in
contact with the second upper labial; frontal more long than broad, as long as its distance from the rostral; one præ- and one postocular; a single anterior temporal, sometimes descending to the border of the mouth; six or seven upper labials, second largest, third and fourth entering the eye; posterior pair of chin-shields usually in contact. Body long; scales imbricate, smooth in the young, with a tubercle in the adult, in 33—35 rows (28—29 anteriorly); ventrals feebly enlarged 270—334.

Olive or yellowish above, with black annuli, sometimes connected by a black ventral band; often round black spots between the bands dorsally; head black, with a curved yellow marking, extending to the præfrontals; end of tail black. Length of head and body 1680 mm.; tail 120 mm.

Type-specimen examined in the British Museum.

Habitat: "Malay Archipelago"; Sumatra!; Indian Ocean! — Coast of India; Ceylon.

15. Hydrophis grandis (Boulenger).

Distira grandis, Boulenger, Cat. Sn. Ill 1896, p. 293, pl. XVI.

Head small; rostral as deep as broad; nasals shorter than the frontal, two or three times the length of the suture between the præfrontals; latter in contact with the second labial; frontal more long than broad, as long as or longer than its distance from the rostral, shorter than the parietals; one præ- and two postoculars; a single anterior temporal; seven upper labials, second largest, third and fourth entering the eye; both pairs of chin-shields in contact. Body long, scales imbricate, keeled, in 41—45 rows (27—29 anteriorly); ventrals small, smooth in the female, with two tubercles in the male, 372—400.

Olive-grey above, yellowish on the sides and below; neck with dark transverse bars, disappearing on the body. Length of head and body 2140 mm; tail 160 mm.

Habitat: "Malay Archipelago"! — Queensland.


Hydrophis hybrida, Schlegel, Abbild. 1844, p. 115, pl. XXXVII.

Hydrophis hybridus, Boulenger, Cat. Sn. Ill 1896, p. 274.

Head moderate; rostral more broad than deep; nasals more than twice the length of the suture between the præfrontals; frontal much more long than broad, as long as its distance
from the tip of the snout, shorter than the parietals; one prae- and one postocular; two superposed anterior temporals; seven upper labials, third and fourth entering the eye; poste-
rior pair of small chin-shields separated by scales. Body long; scales imbricate anteriorly, juxtaposed posteriorly, with a tubercle or keel, in 43 rows (32 anteriorly); ventrals 331, enlarged, with two keels.

Yellowish, with a series of transverse, rhomboidal black spots on the back; head black above. Lower surface yellow. Length of head and body 580 mm.; tail 85 mm.

Type-specimen examined in the Leiden Museum.

Habitat: Molucca Sea!

17. Hydrophis ornatus (Gray).


Distira ornata, Boulenger, Cat. Sn. III 1896, p. 290.


Head moderate; eye as long as or longer than its distance from the mouth; rostral more broad than deep; nasals shorter than the frontal, two or three times as long as the suture between the praefrontals; praefrontals usually in contact with the second labial; frontal more long than broad, as long as or longer than its distance from the rostral or the tip of the snout; one prae- and two or three postoculares; two or three superposed anterior temporals; seven or eight upper labials, third and fourth entering the eye, the posterior often divided, second largest; posterior chin-shields absent or separated by two or three scales. Body moderate; scales imbricate anteriorly, juxtaposed posteriorly, smooth in the young, with a keel or tubercle in the adult, in 40—50 rows (35—42 anteriorly); ventrals 210—300, entire or a few divided posteriorly.

Young specimens banded with black, the bands interrupted ventrally, and with one or more series of round dark spots on the sides. Sometimes the bands confluent, forming a blackish upper part; white below. Length of head and body 1070 mm.; tail 130 mm.

Habitat: Aru Islands!; New Guinea (S. W. New Guinea!, Kapaor 1). — Persian Gulf; Coasts of India and Ceylon; Siam!; Malay Peninsula; Philippines; N. Australia.

18. *Hydrophis macfarlani* (Boulenger).

*Distira macfarlani*, Boulenger, Cat. Sn. III 1896, p. 294, pl. XVII, fig. 1.

Head moderate; rostral more broad than deep; nasals shorter than the frontal, about three times the length of the suture between the prefrontals; latter in contact with the second labial; frontal more long than broad, as long as or longer than its distance from the tip of the snout, shorter than the parietals; one prea- and two postoculors; two superposed anterior temporals; seven or eight upper labials, second largest, third and fourth entering the eye, fifth entering the eye or divided and forming a subocular; both pairs of chin-shields in contact. Body long; scales imbricate, smooth or dorsals keeled, in 43—45 rows (31—35 anteriorly); ventrals small, 220—256.

Whitish, with a dorsal and ventral series of black rhomboidal spots or bars; on the neck and just before the tail the dorsal and ventral spots unite on each side; head black, with a yellow spot on the forehead and a yellow streak from the eye along the temple. Length of head and body 420 mm.; tail 40 mm.

Type-specimen examined in the British Museum.

Habitat: New Guinea.—Murray Island.


*Distira cyanocincta*, Boulenger, Cat. Sn. III 1896, p. 294.


Head moderate; eye shorter than its distance from the mouth in the adult. Rostral slightly more broad than deep; nasals shorter than the frontal, more than twice as long as the suture between the prefrontals; prefrontals usually in contact with the second upper labial; frontal more long than broad, as long as its distance from the rostral or the tip of the snout; one prea- and two postoculors; two superposed anterior temporals; seven or eight upper labials, third, fourth and usually fifth entering the eye or divided; both pairs of chin-shields in contact or posterior separated by one scale. Body long; scales sub-imbricate, keeled or with two or three tubercles, in 39—45 rows (27—33 anteriorly); ventrals 281—385, smooth or with two or more tubercles.
Greenish-olive above, with blackish or olive transverse bars or annuli, broadest on the back, sometimes connected by a black band along the belly; or yellowish, with a black vertebral band and a few black bars on the neck. Length of head and body 1360 mm.; tail 140 mm.

Habitat: Java! (Batavia); Aru Islands!; New Guinea (Matterer Bay, near Astrolabe Bay); Indian Ocean!.—Persian Gulf; Coast of India; Singapore!; China; Japan; Philippines.


Head moderate; rostral more broad than deep; nasals shorter than the frontal, two times and a half as long as the suture between the praefrontals, frontal almost twice as long as broad, as long as its distance from the rostral, shorter than the parietals; one or two prae- and one postocular; seven upper labials, fourth or third and fourth entering the eye, second largest; two superposed anterior temporals; both pairs of chin-shields in contact. Body moderately long; scales imbricate, keeled, in 43 rows (27 anteriorly); ventrals with two keels, 306.

Blackish, with 85 yellowish rings, interrupted on the ventrals; a chevron-shaped marking on the head, the apex on the nasals, the branches on the praefrontals, the supra- and postoculars and on the temple. Length of head and body 630 mm.; tail 80 mm. (After BOULENGER; not seen by me).

Habitat: Borneo (Sarawak coast).

21. *Hydrophis belcheri* (Gray).

*Atria belcheri*, Gray, Cat. 1849, p. 46.

*Distira belcheri*, Boulenger, Cat. Sn. III 1896, p. 296, pl. XVII, fig. 2.

Head small; rostral as deep as broad; nasals shorter than the frontal, twice the length of the suture between the praefrontals; frontal about twice as long as broad, as long as its distance from the rostral, shorter than the parietals; one prae- and two postoculars; two superposed anterior temporals; five or six upper labials, fourth entering the eye; both pairs of chin-shields in contact. Body long; scales imbricate anteriorly, juxtaposed posteriorly; feebly keeled, in 34 rows (25 anteriorly); ventrals distinct, smooth, 317.

Olive above, neck with dark transverse bands; head dark,
lighter on the crown. Lower surface yellowish. Length of head and body 735 mm.; tail 75 mm.

Type-specimen examined in the British Museum.

Habitat: New Guinea!


Hydrophis pachycercus, Fischer, Abh. Naturw. Hamb. III 1856, p. 44, pl. II.


Head small; rostral as deep as broad; nasals shorter than the frontal, more than twice as long as the suture between the praefrontals; frontal more long than broad, as long as its distance from the rostral, shorter than the parietals; one praefrontal and two postoculacurs; two superposed anterior temporals; eight upper labials, fourth or third and fourth entering the eye, fifth divided; two pair of chin-shields in contact. Body stout; scales imbricate anteriorly, juxtaposed posteriorly, keeled, each keel formed of two tubercles, in 38 or 39 rows (27—29 anteriorly); ventrals distinct. 258—260.

Yellowish above, with dark transverse bands; head and nape brown; end of tail black. Lower parts white. Length of head and body 820 mm.; tail 110 mm.

Habitat: Malay Archipelago!

23. Hydrophis stokesi (Gray).


Rostral as deep as broad; nasals more than twice as long as the suture between the praefrontals; latter usually in contact with the second or second and third labials; frontal more long than broad; one praefrontal and two (three) postoculacurs; temporals two or three superposed scales; nine or ten upper labials, fourth to sixth entering the eye, if not divided and forming suboculars; chin-shields absent. Body stout; scales imbricate, pointed, keeled or the keels broken up into two tubercles, in 48—59 rows (39—48 anteriorly), the last rows irregularly dentate; ventrals 230—267, anteriorly a few entire, rest divided into two, pointed and very much like the adjacent scales.

Yellowish or pale brown, with broad black transverse bands
on the back or with black annuli, sometimes dorsal bars and ventral bars, alternating on the flanks, and a dorsal line between the bars. Length of head and body 1310 mm.; tail 200 mm.

Habitat: Java; Aru Islands (near Karang); New Guinea. — Chinese sea; Kurrachee Harbour; Singapore!; N. coast of Australia.

The 12 or 14 young specimens, produced by the female, have a length of 30—42 mm.

57. Enhydris Merrem.


Nostrils superior; eye small; pupil round; head-shields large; nasals in contact; praeocular present; loreal present or absent. Maxillary teeth 2 large fangs and 2—4 small teeth. Body short and stout, covered with juxtaposed scales, in 27—37 rows; ventrals small if distinct. Tail strongly compressed.

Distribution. From India to China and New Guinea. A single species.

1. Enhydris hardwickei (Gray).

Lapenis hardwickei, Gray, Ill. Ind. Zool. II 1834, pl. LXXXVII, fig. 2. Enhydris hardwickei, Boulenger, Cat. Sn. III 1896, p. 301 (s. syn.).

Rostral as deep as broad or slightly more broad; praefrontals in contact with the second labial; frontal large; parietals large; nasals in contact with the two anterior labials, sometimes a loreal present; one prae- and one to three postoculars; temporals two to four superposed shields; seven or eight upper labials, third and fourth usually entering the eye; chin-shields small or absent. Scales with a tubercle, in 34—37 rows, the last three or four rows enlarged; ventrals 130—200, small.

Olive or yellowish, with blackish transverse bands or annuli, sometimes confluent on the back. Length of head and body 670 mm.; tail 80 mm.

Nom. indig. Ular lempé.

Habitat: Java (Batavia, Cheribon Sea!, Pekalongan!, Semarang!, Rembang, Pasuruan!, Panarukan!); Borneo (Santubong); Flores!; Sumba (Taraba Bay!); Celebes (Manado!, Macassar); Moluccas!; New Guinea. — Malay Peninsula; Siam; Singapore; Bay of Bengal; Chinese Sea; Philippines.
Subfamily Elapinae.

Key to the Indo-Australian genera.

A. Vertebral scales enlarged; scales in 13—17 rows... 58. Bungarus p. 243.
B. Vertebral scales not enlarged.

1. Maxillary extending forwards beyond the palatine.
   a. Internasal bordering the nostril; scales in 15—25
      rows... 59. Naja p. 245.
   b. Internasals not bordering the nostril.

2. Anal divided; poison-gland not extending beyond
   the head; scales in 13 rows... 60. Calliophis p. 250.

Indo-Australian reptiles II.
2. Anal entire; poison-gland extending along each side of the anterior third of the body; heart far posteriorly; scales in 13 rows. ... 61. Doliophis p. 251.

II. Maxillary not extending forwards beyond the palatine.

a. Poison-fangs followed by 4—6 grooved teeth; head not distinct from neck; subcaudals in two rows.
1. Anterior maxillary and mandibular teeth abruptly enlarged; nostril between two nasals; scales in 17 rows. ... 62. Glyphodon p. 254.

2. Maxillary and mandibular teeth gradually decreasing in size.
† No praeocular.

aa. Pupil round; nostril between two nasals; internasals present; scales in 15 or 17 rows. ... 63. Toxicocalamus p. 255.

bb. Pupil round; nostril in a single nasal; no internasals; scales in 13 rows. ... 64. Utracalamus p. 258.

†† Praeocular present.

1. Pupil vertically elliptic; nostril between two nasals; scales in 15 rows. ... 65. Apistocalamus p. 260.

2. Pupil round; nostril in a single nasal; scales in 15 rows. ... 66. Pseudapistocalamus p. 262.

b. Poison-fangs followed by 7—15 small grooved teeth; head slightly distinct from neck; subcaudals in two rows.
1. Pupil vertical; no canthus rostralis; scales in 15 rows. ... 67. Pseudelaps p. 264.

2. Pupil round; canthus rostralis distinct; scales in 15 rows. ... 68. Diemenia p. 266.

c. Poison-fangs followed by 1—5 small teeth, sometimes indistinctly grooved.
† Habit colubriform or elapiform.

1. Scales in 17—23 rows; subcaudals in two rows or partly single. ... 69. Pseudechis p. 268.

2. Scales in 15 rows; subcaudals in two rows. ... 70. Micropechis p. 270.

†† Habit viperiform; posterior subcaudals paired; end of tail compressed, ending in a long spine; scales in 21 or 23 rows. ... 71. Acanthophis p. 271.

Terrestrial snakes; mostly viviparous.
58. **Bungarus** Daudin.


Head not or slightly distinct from neck; eye small; pupil round or vertically elliptic; nostril between two nasals; loreal absent. Maxillary teeth 2 large, grooved fangs, followed by 1—4 small, feebly grooved teeth; anterior mandibular teeth longest and feebly grooved. Body round or compressed, covered with smooth scales without pits, in 13—17 rows, disposed obliquely, vertebral row enlarged, hexagonal; ventrals rounded. Tail moderate or short; subcaudals single or in two rows.

**Distribution.** S. E. Asia.

**Key to the Indo-Australian species.**

A. Subcaudals single; scales in 15 or 17 rows.

1. A dorsal ridge; tail ending obtusely; anterior temporal scarcely more long than deep ........... 1. *B. fasciatus* p. 243.

II. No dorsal ridge; tail ending in a point; anterior temporal much more long than deep ........... 2. *B. candidus* p. 244.


1. **Bungarus fasciatus** (Schneider).


Rostral much more broad than deep, visible from above; internasals shorter than the prefrontals; frontal as long as or longer than its distance from the tip of the snout, as long as or shorter than the parietals; one prea- and two postoculairs; temporals 1 + 2, anterior scarcely more long than deep; seven upper labials, third and fourth entering the eye; three lower labials in contact with the anterior chin-shields; latter about as long as the posterior, both pairs short. An obtuse keel or ridge along the back and tail, latter ending obtusely. Scales in 15 rows, vertebrals much enlarged; ventrals 200—234; anal entire; subcaudals 23—29, single.

Yellow above, with broad black annuli; a black band on the head and nape, beginning between the eyes and widening behind; snout brown. Lower surface yellow with black bars. Length of head and body 1320 mm.; tail 130 mm.

Nom. indig. Ular welang (mal.); oraj welang (sund.).
Habitat: Sumatra (Stabat, Medan!, Bulo Telang in Langkat); Siak!; Java (Gadok, Buitenzorg!, Depok, Cheribon!, Ambarawa, Wonosobo, Kedu!, Salatiga!, Tengger Mts. 1200 M.); Borneo (Baram river, Kuching, Singkawang). — Penang; Malay Peninsula; Siam; Burma; Assam; Bengal; S. India; S. China; Indo China.

Lives in dry places, in hollows of the ground; in Java often found in Sawahdikes. Feeds on small mammals, lizards and snakes. The eggs, 8 in number, are incubated by the female.

2. Bungarus candidus (L.).

Coluber candidus, Linné, Mus. Ad. Frid. 1754, p. 33; pl. VII, fig. 1.
Bungarus candidus, Boulenger, Cat. Sn. III 1896, p. 368 (s. syn.).

Rostral more broad than deep, visible from above; internasals shorter than the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; one prae- and two postoculars; temporals 1 + 1 or 1 + 2, anterior much more long than deep; seven upper labials, third and fourth entering the eye; three (four) lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 15 (17) rows, vertebrals much enlarged; ventrals 194—237; anal entire; subcaudals 37—56, single.

Barred with dark brown and yellow, 27—34 (42—60) dark bars on body and tail, the first continuous with the dark colour of the head, narrowed and rounded on the sides; the broad yellow interspaces may be spotted with black; or dark brown or bluish black above, with narrow, transverse, white streaks or with small white spots. Lower surface white. Length of head and body 920 mm.; tail 160 mm.

Fig. 91. Bungarus candidus (L.) X \(\frac{3}{5}\).
Nom. indig. Ular weling (mal.); oraj weling (sund.).

Habitat: Sumatra (Lower Langkat) 1); Java (Batavia!, Buitenzorg!, Anjer, Krawang!, Depok, Sukabumi!, Kudus near Semarang!, Kediri!, Ambarawa, Prigan 1800—2300 feet, Tengger Mts. 1200 M.); Celebes (Manado, Minahassa). — Penang; Malay Peninsula; Siam; Indo China; S. China; Burma; India.

Feeds on snakes, toads, lizards and small mammals. The female of the Krait as it is called in British India, deposits 6—10 eggs in holes in the ground.


Rostral more broad than deep, visible from above; internasals much shorter than the praefrontals; frontal as long as its distance from the tip of the snout, shorter than the parietals; one prae- and two postoculars; temporals 1 + 2, seven upper labials, third and fourth entering the eye; three or four lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 13 rows, vertebrals much enlarged; ventrals 193—230; anal entire; subcaudals 42—54, partly single, partly in two rows.

Black above, with or without a yellow vertebral line, a yellow lateral line along the two outer rows of scales; sometimes a series of yellow dots along the vertebral line; head red or yellow, sometimes with a black marking; tail and sometimes the posterior part of the body orange-red, with or without pairs of black annuli, enclosing a yellowish-white, black-spotted region. Lower surface brown or yellow with brown-edged shields. Length of head and body 1630 mm.; tail 220 mm.

Habitat: Sumatra (Deli, Asahan, Indragiri, Padang!); Java; Borneo (Kina Balu, Baram, Kuching, Sibu, Simanggang, Pangkalan ampat, Balikpapan). — Penang; Malay Peninsula; Cochin China; Tenasserim.

59. Naja Laurenti.

(Laurenti, Syn. Rept. p. 90, 1768).

Head not or slightly distinct from neck; eye rather large;

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pupil round; nostril between two nasals and the internasal; loreal absent. Maxillary teeth 2 large, grooved fangs, separated by an interspace from one to three small, feebly grooved teeth; anterior mandibular teeth longest. Body round, covered with smooth scales without pits, in 15—25 rows, more on the neck, disposed obliquely; ventrals rounded. Tail moderate; subcaudals all or greater part in two rows.

Distribution. Africa; S. Asia.

Key to the Indo-Australian species.

A. Internasals in contact with the praeocular . . . . . . 1. N. tripudians p. 246.
B. Internasals separated from the praeocular; a pair of large shields behind the parietals . . . . . . . . 2. N. bungarus p. 249.

1. Naja tripudians Merrem.

_Naja tripudians_, Merrem, Tent. 1820, p. 147.
_Naja tripudians_, Boulenger, Cat. Sn. III 1896, p. 380 (s. syn.).

Rostral more broad than deep, visible from above; internasals as long as or shorter than the praefrontals, in contact with the praeocular; frontal as long as or longer than its distance from the rostral, as broad as or broader than the supraocular; one prae- and three (two) postoculars; temporals \(2 + 3\) or \(3 + 3\); seven upper labials, third deepest, third and fourth entering the eye, seventh largest; three or four lower labials in contact with the anterior chin-shields; latter as long as or longer than the posterior. Neck dilatable. Scales in 15—25 rows, \(19—35\) round the neck; ventrals \(163—207\); anal entire; subcaudals 42—75.

Pale brown or grey to blackish; no marking on the hood or a pale U- or O-shaped marking. Lower surface brown or yellowish with one or more dark transverse bands anteriorly. Length of head and body 1320 mm.; tail 230 mm.; reaches a length of 1900 mm.

Nom. indig. Ular sendoq (mal.) or ular bedul; oraj sinduk or oraj babi (sund.); ular biludah (Padang Highlands); hantipeh pura (Dajak-name); tedong naga (Kuching).

Habitat: Sumatra (Atjeh!, Medan!, Labuan, Serdang!, Bedagei, Asahan, Langkat, Laut Tador, Battak Mts. 800—1000 M., Indragiri, Djambi!, Tanah Lemba, Palembang, Singkarah!, Silago, Ringat!, Indrapura, Padang!); Riou; Banka!; Borneo
(Kudat, Bongon, Kina Balu, Limbawan on Padas river, Rejang river, Kuching, Oya, Paku, Busau, Pangkalan ampat, Montrado, Singkawang!, Sungi duri, Labuan, Samarinda!, Balikpapan); Java (Batavia!, Buitenzorg, Depok, Anjer, Sukabumi, Djampang, Bandung!, Pekalongan!); Lombok; Sumbawa; Flores!; Alor (Ombaai). — From the Malay Peninsula to Transcaspia and China.

Fig. 92. *Naja tripudians* Merr. × \( \frac{1}{2} \).

a. Specimen from British India with the typical marking on the hood, not occurring in Dutch East India.

b. Var. leucodira Blgr.
Feeds on small mammals, birds, frogs and lizards. Lives in sawahs, near rivers under stones or in hollows in the ground.

Of the many different forms of this species the following are found in the Dutch East Indies:

1. Var. caeca Gmel. 25—31 scales across the neck, 21—25 across the middle of the body. Uniform pale brown or grey to black; no marking on the hood; one or more dark transverse bands on the anterior part of the belly.
   Habitats: Java.

2. Var. sputatrix Boie. 25 scales across the neck, 19—21 across the middle of the body. Black or dark brown above and below; sides of head and neck yellow or orange. Young specimens with a pale U- or O-shaped marking on the hood; chin and throat whitish.
   Habitats: Sumatra; Java.

3. Var. leucodira Blgr. 21—25 scales across the neck, 17 or 19 across the middle of the body. Brown or black; no marking on the hood; neck whitish below, with a black transverse band and a black spot anteriorly and one or two on each side.
   Habitat: Sumatra.

4. Var. miolepis Blgr. 21—23 scales across the neck, 17—19 across the middle of the body. Dark brown or black; no marking on the hood; sides of head and throat yellowish. Young ones with a white throat, the white extending backwards towards its fellow, forming an angular band behind the hood; body and tail with complete white rings.
   Habitat: Borneo.

5. Var. paucisquamis Peracca. 19 scales across the neck, 15 across the middle of the body. Black above and below; throat yellowish-white; head brown, paler towards the sides.
   Habitat: Borneo.

6. Var. sumatrana F. Müller. 21 scales across the neck, 17 across the middle of the body. Black above; throat yellow with a transverse black band; two confluent black spots anteriorly. Young specimens with about 8 narrow whitish rings on the posterior part of the body.
   Habitat: Sumatra.
7. Another var. with 21 scales on the neck, 19 across the middle of the body is distinguished by BOULENGER. Uniformly olive-brown above, white beneath.

**Habitat:** Flores; Alor.

2. *Naja bungarus* Schlegel.


*Naja bungarus*, Bouleeng, Cat. Sn. III 1896, p. 386 (s. syn.).

Rostral more broad than deep, just visible from above; internasals as long as or shorter than the praefrontals, separated from the praefrontals; frontal as long as its distance from the tip of the snout, much shorter than the parietals, as broad as the supraocular; a pair of large occipitals (fig. 93); one (two) praefrontal and three postoculars; temporals 2 + 2; seven upper labials, third deepest, third and fourth entering the eye, seventh longest; four lower labials in contact with the anterior chin-shields; latter as long as or longer than the posterior. Scales in 15 rows, 19—21 round the neck; ventrals 215—262; anal entire; subcaudals 80—120, the anterior usually single.

Yellowish, brown, olive or black above, with or without dark or white transverse bars; sometimes black edges to the scales. Lower surface whitish, the shields black-edged, or dark brown, chin and throat yellow. Young specimens black, with yellow round spots in transverse series (fig. 94) or with a yellow spot on each scale. Length of head and body 3165 mm.; tail 870 mm.

**Nom. indig.** Ular tedong sélar (Borneo); ular anang (jav.); oraj totok (sund.).

**Habitat:** Simalur!; Nias!; Sumatra (Tamiau in Atjeh!, Deli!, Langkat, Bedagei, Indragiri, Gunung Sahilan!, Ajerbangis!, Tebing Tinggi in Palembang!); Borneo! (Bulangan river, Paku,
Claudetown, Baram, Pangkalan ampat, Kuching, Sibu, Kapit on Rejang river, Lundu, Balikpapan); Java (Krawang!, Tjikao!); Celebes (Soputan Volcano in Minahassa). — Singapore; Malay Peninsula; Siam; Andamans; Burma; India; Indo China; S. China; Philippines.

Usually feeds on snakes.

60. Callophis Günther.


Head small, not distinct from neck; eye small; pupil round; nostril between two nasals; loreal absent. Maxillary teeth 2 large, grooved fangs, no more teeth; mandibular teeth about equal. Praefrontal bones in contact in the median line. Body long, round, covered with smooth scales without pits, in 13 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. S. E. Asia.

A single species.

1. Callophis gracilis Gray.

*Calliophis gracilis*, Gray, Ill. Ind. Zool. II 1834, pl. LXXXVI, fig. 1.
*Callophis gracilis*, Boulenger, Cat. Sn. II 1896, p. 396.

Eye very small, about half its distance from the mouth. Rostral more broad than deep; internasal not bordering the
nostril; frontal as long as its distance from the rostral or the tip of the snout, much shorter than the parietals; one prae- and two postoculars; a single temporal; six upper labials, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 13 rows; ventrals 303—320; anal divided; subcaudals 21—30.

Pale brown or reddish above, with three dark longitudinal lines passing through round, dark brown or black spots, the lateral spots alternating with the median; two large black blotches across the tail, the first at the base of the tail; two outer rows of scales dark with a yellow longitudinal streak. Lower surface barred black and yellow. Length of head and body 705 mm.; tail 35 mm.

Habitat: Sumatra (Labuan in Deli). — Singapore; Penang; Malay Peninsula!; Bangkok.

Rare.

61. Doliophis Girard.


Head small, not distinct from neck; eye small; pupil round; nostril between two nasals; loreal absent. Maxillary teeth 2 grooved fangs; mandibular teeth subequal. Poison glands extending along each side of the body for about one third of its length, thickening and ending in front of the heart, which is shifted far back. Body round, long, covered with smooth scales without pits, in 13 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. Burma; Cochin China; Malay Peninsula and Archipelago.

Key to the Indo-Australian species.


1. *Doliophis bivirgatus* (Boie).

_Elaps bivirgatus_, Boie, Isis, 1827, p. 556.
*Doliophis bivirgatus*, Boulenger, Cat. Sn. III 1896, p. 400 (s. syn.).

Rostral slightly more broad than deep; frontal large, as long as or longer than its distance from the tip of the snout,
as long as or shorter than the parietals; one praec- and two postoculars; temporals $1 + 1$ or $1 + 2$; six upper labials, third and fourth entering the eye; three or four lower labials in contact with the anterior chin-shields; latter a little longer than the posterior. Scales in 13 rows; ventrals $244-295$; anal entire; subcaudals $34-53$.

Black or dark purple above, with a fine white lateral line between the two outer rows of scales, or with four white lines, the outer broader and running along the two outer rows of scales, or with a pale blue lateral band along the two outer rows; head and tail red. Lower surface red. Length of head and body 1420 mm.; tail 190 mm.

**Nom. indig.** Kendawang or Kranawang (Dajak-name); ular tjabei (mal.).

**Habitat:** Nias!; Sumatra (Labuan, Medan!, Serdang!, Bindjey, Langkat, Battak Highlands 800—1000 M., Indragiri, near Supat, Palembang!, Indrapura, Taluk!, Agam); Banka!; Riou; Borneo (Sandakan, Bongon, Sintang, Matang, Sibu, Busau, Kuching, Tegora, Limbang, Banting, Pangkalan ampat, Buntok, Landak!; Pontianak, Muara Djawa!, Muara Tebe!, Balikpapan, Bandjermassin!); Java! (Tengger Mts. 1200 M.). — Singapore; Penang; Malay Peninsula; Siam; Cochin China; Burma.
2. Doliophis intestinalis (Laur.).

*Doliophis intestinalis*, Boulenger, Cat. Sn. III 1896, p. 401 (s. syn.).

Rostral slightly more broad than deep; frontal as long as or longer than its distance from the tip of the snout, shorter than the parietals; one prae- and two postoculars; temporals $1 + 2$; six upper labials, third and fourth entering the eye;

Fig. 96. *Doliophis intestinalis* (Laur.). Five different forms of this species.
three or four lower labials in contact with the anterior chin-shields; latter as long as or longer than the posterior. Scales in 13 rows; ventrals 197—273; anal entire; subcaudals 15—33.

Dark brown, pale greyish, reddish-brown or black above, with a narrow orange or yellow vertebral line, sometimes forked on the head and extending to behind the nostril; usually a large triangular yellow blotch on the temporal region; a black stripe along each side, divided by a narrow yellow line. The yellow vertebral line sometimes bordered by dark brown, pale grey or blackish lines or broken up by dark brown spots; sometimes a dark vertebral band, three scales wide, bordered by a pale reddish-brown streak, two scales wide; a pale brown line between the two outer rows of scales. Lower surface yellow with black transverse bars, which are sometimes confluent with the black of the sides; tail pink or red below. Length of head and body 535 mm.; tail 45 mm.

Name. indig. Ular tjabeh (mal.); tadung munggu (Landak).

Habitat: Nias!; Sumatra (Atjeh, Labuan, Stabat, Deli!, Langkat, Raja Mts., Siboga, Indragiri, Kertadjaja in Palembang, Kaju tanam!, Indrapura, Agam, Padang!); Riou!; Banka!; Borneo (Sandakan Bay, Kina Balu, Matang, Sintang, Pang-kalan ampat, Brookton, Rejang, Paku, Kuching, Kidi district, Tegora, Busau, Simanggang, Mt. Dulit, Landak!, Labuan, Tandjong); Java (Gadok, Mt. Salak, Buitenzorg!, Tjibodas!, Krawang, Sukabumi!, Semarang, Salatiga!, Wonosobo, Malang!, Mt. Wilis 5000 feet, Nongkodjadjar in Tengger Mts. 1300 M.!, Prigan 1800—2300 feet); Celebes (Manado). — Singapore; Penang; Malay Peninsula; Siam; Burma.


Head small, not distinct from neck; eye very small; pupil round or vertically elliptic; nostril between two nasals; loreal absent. Maxillary teeth 2 large, grooved fangs, followed by 6 small, grooved teeth after an interspace; mandibular teeth feebly grooved, anterior strongly enlarged. Body round, covered with smooth scales without pits, in 17 rows; ventrals rounded. Tail short; subcaudals in two rows.

1. **Glyphodon tristis** Günther.

*Glyphodon tristis*, Günther, Cat. 1858, p. 211.
*Glyphodon tristis*, Boulenger, Cat. Sn. III 1896, p. 314, pl. XVIII, fig. 1.

Snout rounded; eye about half as long as its distance from the mouth. Rostral more broad than deep, visible from above; posterior nasal separated from the praecocular; no loreal; internasals shorter than the praefrontals; frontal twice as broad as the supraocular, as long as its distance from the rostral or the tip of the snout, shorter than the parietals; one praef- and two postoculars; temporals 2 + 2, lower anterior wedged in between the fifth and sixth upper labials; six upper labials, second or second and third in contact with the praefrontal, third and fourth entering the eye; four lower labials in contact with the anterior chin-shields; latter as long as or shorter than the posterior. Scales in 17 rows; ventrals 165—179; anal divided; subcaudals 38—52, in two rows or some of the anterior single.

Dark brown or blackish above, the scales light-edged; occiput and nape sometimes yellowish or pale reddish. Lower surface yellow, the outer ends of the ventrals dark brown; subcaudals dark brown anteriorly, yellow posteriorly. Length of head and body 775 mm.; tail 125 mm.

**Habitat:** Aru Islands; New Guinea (St. Joseph’s river, Fly river!). — Islands of Torres Straits; N. E. Australia.

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63. **Toxicocalamus** Boulenger.


Head small, not distinct from neck; eye very small; pupil round; nostril between two nasals; no loreal; no praecocular. Postfrontal bone absent. Maxillary teeth 6, gradually decreasing in size, the first perforated; mandibular teeth gradually decreasing in length. Body very long, round, covered with smooth
scales without pits, in 15 or 17 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. New Guinea; Woodlark Island.

Key to the species.

A. Scales in 17 rows; ventrals 274—305. . . . . 1. *T. longissimus* p. 256.

1. *Toxicocalamus longissimus* Boulenger.


Rostral slightly more broad than deep, visible from above; internasals half as long as the praefrontals, which are in contact with the second and third labials and with the eye; frontal small, as long as its distance from the tip of the snout, much shorter than the parietals, a little broader than the supraocular; no praecocular, one postocular; temporals 1 + 2; six upper labials, third and fourth entering the eye; three lower labials in contact with the anterior chin-shields; latter a little longer than the posterior. Scales in 17 rows; ventrals 274—305; anal divided; subcaudals 30—46. Tail ending in a compressed horny scale, which is keeled above.

Grey-brown above, with dark streaks on the scales; sides whitish, each scale with a grey-brown streak; a reddish bar across the snout; a reddish spot behind the eye and another, sometimes indistinct, on the occiput; the dark colour of the head forming two vertical bars across the yellow upper lip, one passing through the eye, the other behind the corner of the mouth. Lower surface white, with two grey-brown longitudinal streaks. Length of head and body 612 mm.; tail 38 mm.

Type-specimens examined in the British Museum.


2. *Toxicocalamus stanleyanus* Boulenger.


Rostral much more broad than deep, visible from above, internasals almost as long as the praefrontals, which are in contact with the second upper labial and with the eye; frontal
small, as long as its distance from the tip of the snout, a little shorter than the parietals, slightly broader than the supraocular; no praecocular, one postocular; temporals $1 + 2$; five upper labials, second and third entering the eye; three lower labials in contact with the anterior chin-shields; latter larger than the posterior. Scales in 15 rows; ventrals 230—261, the

last sometimes divided; anal entire; subcaudals 25—51. Tail ending in a compressed, obtuse scale, which is keeled above. Blackish-brown above; two outer rows of scales white, each scale with a blackish centre; a yellow nuchal collar, bordered posteriorly with blackish; head dark brown or blackish, the dark colour forming two vertical bands across the yellow upper

**Indo-australian reptiles II.**
lip, the anterior passing through the eye, the other just behind the corner of the mouth. Lower surface white, with a black spot on each side of the shields; some of the ventrals with an interrupted blackish border. Length of head and body 570 mm.; tail 40 mm.

Type-specimen examined in the British Museum.

Habitat: New Guinea (Dinawa in Owen Stanley Range 4000 feet!, Madew on St. Joseph river 2—3000 feet, Beaufort river near Lorentz river!).

64. **Ultrocalamus** Sternfeld.


Head small, not distinct from neck; eye very small; pupil round; nostril in a single nasal; no loreal; no praecocular; no internasals; praefrontals entering the eye; no anterior temporal, parietals in contact with labials. Maxillary teeth 6, gradually decreasing in size, first grooved; mandibular teeth gradually decreasing in length. Body very long, round, covered with smooth scales without pits in 13 rows; ventrals rounded. Tail short; subcaudals in two rows.


A single species.

1. **Ultrocalamus preussi** Sternfeld.


Rostrum nearly twice as broad as deep, visible from above; no internasals; praefrontals large, in contact with the rostral, the nasal, the second upper labial and the eye; frontal small,
a little broader than the supraocular, one time and a half as long as broad, shorter than its distance from the tip of the

snout, half the length of the parietals; one postocular; no anterior temporal, the parietals forming a suture with the last labial; five upper labials, second and third entering the eye; three lower labials in contact with the anterior chin-shields, which are larger than the posterior. Scales in 13 rows; ventrals 300—328; anal entire; subcaudals 16—48; tail ending in a compressed obtuse scute, obtusely keeled above.

Dark brown above, the scales edged with dark; two outer rows of scales yellowish, each scale with a brown centre; a broad yellowish band across the head on the parietals, disappearing with age; upper lip yellow. Lower surface yellowish, each ventral and subcaudal with a brown bar; throat yellow. Length of head and body 730 mm.; tail 35 mm.

Habitat: N. New Guinea (Sermowai river!, Humboldt Bay!, Njao on Tjano river!, Seleo Island near Berlinhafen).
Note. Another Elapine snake is mentioned by Sternfeld: *Ultrocalamus bürgersi* n. sp. from New Guinea. As the head had been dried, the head-shields could not be seen very distinctly. The specimen had 15 rows of scales; internasals absent. Ventral 293; subcaudals 40. Brown above; scales of outer row margined with light; upper lip and end of tail yellow. Length 330 + 35 mm.

65. *Apistocalamus* Boulenger.


Head small, not distinct from neck; eye very small; pupil vertically elliptic; nostril between two nasals; praecocular in contact with or narrowly separated from the posterior nasal. Maxillary teeth 5 long, grooved teeth, gradually decreasing in length; mandibular teeth decreasing in length. Body round, covered with smooth scales without pits, in 15 rows; ventrals rounded. Tail moderate; subcaudals in two rows or partly single.


**Key to the species.**

A. Ventral 190; subcaudals 41 . . . . . . . . . . . . . 1. *A. pratti* p. 260.
B. Ventral 196; subcaudals 50 or more . . . . . . . . . . 2. *A. loriae* p. 261.
C. Ventral 207; subcaudals 27 . . . . . . . . . . . . . . . . . . . . . . . 3. *A. grandis* p. 261.
D. Ventral 199—218; subcaudals 22—32 . . . . . . . . 4. *A. lönningergi* p. 262.

1. *Apistocalamus pratti* Boulenger.


Snout short, rounded. Rostral slightly more broad than deep, visible from above; posterior nasal in contact with the praecocular; internasals half as long as the praefrontals; frontal as long as its distance from the tip of the snout, much shorter than the parietals; one praer- and one postocular; temporals 1 + 1; six upper labials, third and fourth entering the eye; three lower labials in contact with the anterior chin-shields; latter larger than the posterior, which are separated by a large scale. Scales in 15 rows; ventral 190; anal divided; subcaudals 41, partly single, partly in two rows. Tail ending in a pointed scale, which is keeled above.

Olive-brown above; an oblique yellowish streak on each side of the nape; upper lip yellow. Lower surface yellowish with a median series of olive-brown spots, becoming confluent
into a band after the anterior fourth of the body. Length of head and body 305 mm.; tail 50 mm.

Type-specimen examined in the British Museum.

Habitat: New Guinea (Dinawa in Owen Stanley Range 4000 feet!).

2. Apistocalamus loriae Boulenger.


Snout short, broadly rounded. Rostral slightly more broad than deep, visible from above; posterior nasal in contact with the praefrontal; internasals about one third the length of the praefrontals; frontal as long as its distance from the tip of the snout, much shorter than the parietals; one praecocular and two postoculars, upper much larger than lower; temporals 1 + 2; six upper labials, third and fourth entering the eye, sixth largest; three lower labials in contact with the anterior chin-shields; latter larger than the posterior, which are separated by a large scale. Scales in 15 rows; ventrals 196; anal divided; subcaudals 48 + ?

Dark greyish-olive above; upper lip yellowish. Lower surface yellowish, with three series of small dark spots along the ventrals; subcaudals dark with light edges. Length of head and body 490 mm.; tail (injured) 90 mm. (After BOULENGER; not seen by me).

Habitat: New Guinea (Haveri).

3. Apistocalamus grandis Boulenger.

*Apistocalamus grandis*, Boulenger, Transact. Zool. Soc. XX 1914, p. 265, pl. XXX, fig. 3.

Snout short, broadly rounded. Rostral more broad than deep, just visible from above; posterior nasal in contact with the praecocular; internasals not quite half so long as the praefrontals; frontal as long as its distance from the tip of the snout, much shorter than the parietals; one praec- and one postocular; temporals 1 + 2; six upper labials, third and fourth entering the eye, last largest; three lower labials in contact with the anterior chin-shields; latter slightly
larger than the posterior, which are separated by a scale. Scales in 15 rows; ventrals 207; anal divided; subcaudals 27. Tail ending in a pointed scale, which is keeled above.

Dark brown above, with irregular whitish blotches; upper lip white. Lower surface white. Length of head and body 860 mm.; tail 80 mm.

Type-specimen examined in the British Museum.

Habitat: S. New Guinea (Setekwa river!).

4. Apistocalamus lönnergi Boulenger.


Snout short, broadly rounded. Rostral slightly more broad than deep, visible from above; posterior nasal in contact with or narrowly separated from the praefocular; internasals about half as long as the praefrontals; frontal as long as or shorter than its distance from the tip of the snout, much shorter than the parietals; one praef- and one postocular (rarely two); temporals 1 + 1 or 2; six upper labials (seven), third and fourth (third to fifth) entering the eye, last largest; three or four lower labials in contact with the anterior chin-shields; latter as large as the posterior, which are sometimes separated by a scale. Scales in 15 rows; ventrals 199—218; anal divided; subcaudals 22—32. Tail ending in a pointed scale, which is keeled above.

Dark olive-brown above; scales of the sides with yellowish centre; upper lip yellowish; a yellow collar and a yellowish spot on each parietal may be present. Lower surface uniformly yellowish. Length of head and body 550 mm.; tail 40 mm.

Type-specimens examined in the British Museum.

Habitat: New Guinea (North of Fak Fak 1700 feet!, German New Guinea).

66. Pseudapistocalamus Lönnberg.


Head small, depressed, hardly distinct from neck; eye very small; pupil round; nostril in a single nasal, the margin of
the latter bordering the first labial and the internasal comparatively narrow; praecocular large, in contact with the nasal. Maxillary teeth 2 grooved ones, followed by four grooved teeth, gradually decreasing in length. Body round, covered with smooth scales, in 15 rows; ventrals rounded. Tail short; subcaudals in two rows.

A single species.

1. **Pseudapistocalamus nymani** Lönneberg.

*Pseudapistocalamus Nymani*, Lönneberg, *op. cit.*

Snout short, bluntly rounded. Rostral more broad than deep, visible from above; internasals small, about half as long as the praefrontals; frontal almost as long as its distance from the rostral, much shorter than the parietals; a prae- and two

![Image](image)

Fig. 105. *Pseudapistocalamus nymani* Lönneberg. Nat. size. Side view of head.

postoculars, the upper largest; temporals 1 + 2; six (seven) upper labials, third and fourth entering the eye, sixth largest, sometimes divided; three lower labials in contact with the anterior chin-shields; latter longer than the posterior, which are sometimes separated by a scale. Scales in 15 rows; ventrals 188–205; anal divided; subcaudals 26–43. Tail ending in a pointed scale, which is keeled above.

Dark bronze-brown or blackish, iridescent above; flanks lighter; upper lip and a spot on each side of the nape yel-
lowish; a yellow transverse band across the praefrontals. Lower surface blackish-brown, the shields edged with light grey. Young specimen with the outer rows of scales blackish, edged with grey. Length of head and body 398 mm.; tail 47 mm.

Type-specimen received from the Upsala Museum, examined. Habitat: New Guinea! (Sattelberg 800 M., Lialun).

A female specimen contained eggs of about 13 mm.

67. Pseudeelaps Dum. & Bibr.


Head slightly distinct from neck; eye small; pupil vertically elliptic; nasal single or divided; loreal absent. Maxillary teeth 2 large, grooved fangs, separated by an interspace from 8—12 small, grooved teeth; anterior mandibular teeth strongly enlarged. Body round, covered with smooth scales without pits, in 15 or 17 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. Moluccas; New Guinea; Australia.

A single species.

1. Pseudeelaps mülleri (Schlegel).

Elaps mülleri, Schlegel, Phys. Serp. 1837, p. 452, pl. XVI fig. 16 & 17. Pseudeelaps mülleri, Boulenger, Cat. Sn. III 1896, p. 316 (s. syn.).

Rostral twice as broad as deep, scarcely visible from above; nasal divided, in contact with the praeocular; internasals shorter than the praefrontals; frontal longer than its distance from the tip of the snout, shorter than the parietals; one prae- and two postoculars; temporals 2 + 2, lower anterior wedged in between the fifth and sixth upper labials; six upper labials, third and fourth entering the eye; three or four lower labials in contact with the anterior chin-shields; latter as long as or shorter than the posterior. Scales in 15 rows; ventrals 138—177; anal divided; subcaudals 16—39.

Brown above; sometimes a light vertebral line anteriorly; head sometimes spotted with dark brown; a dark, light-edged streak on each side of the head, passing through the eye and sometimes continued along the neck. Lower surface yellowish or coral-red, uniform or spotted with brown or black; throat brown or black. Young specimens sometimes with a dark brown nuchal collar. Length of head and body 556 mm.; tail 72 mm.
Habitat: Ceram; Misol; Salawatti; New Guinea (Jobi, Mafoor, Djamna, Sorong, Fak Fak, Dorei, Rubi, Mansinam, Andai, Mt. Arfak, Krudu, lake Sentani, Wendèsi, Humboldt Bay!, near Kasawari!, Tana, Etna Bay, Utakwa river 2500 feet, Lorentz river!, Sattelberg, Simpsonhafen, Stephansort, Bongu, Astrolabe Bay, Haveri, Moroka 2300 feet, Bara Bara, Madew on St. Joseph river, Albert Edward Range 6000 feet, Mt.

Victoria in Owen Stanley Range, Valise Island, Seleo Island; Schouten Islands (Mysore), Ferguson, Trobiand and Woodlark Islands; St. Aignan; Bismarck Archipelago.

68. Diemenia Günther.


Head slightly distinct from neck; eye moderate or large; pupil round; canthus rostralis distinct; nasal entire or divided; loreal absent. Maxillary teeth 2 large, grooved fangs, separated by an interspace from 7—15 small, grooved teeth; anterior mandibular teeth strongly enlarged. Body round, covered with smooth scales without pits, in 15—19 rows, more on the neck; ventrals rounded. Tail moderate or long; subcaudals all or the greater part in two rows.

Distribution. New Guinea; Australia.

Key to the Indo-Australian species.

A. Rostral almost as deep as broad; internasals at least half as long as praefrontals . . . . . . . . . . . 1. D. psammophis p. 266.
B. Rostral much more broad than deep; internasals not more than half so long as praefrontals . . . . 2. D. olivacea p. 267.

1. Diemenia psammophis (Schlegel).

Diemenia psammophis, Boulenger, Cat. Sn. III 1896, p. 322 (s. syn.).

Rostral about as deep as broad, visible from above; nasal divided, in contact with the praecocular; internasals one half

Fig. 107. Diemenia psammophis (Schleg.). × 2/3.
to two thirds the length of the praefrontals; frontal as long as or longer than its distance from the tip of the snout, shorter than the parietals; one praecocular, two (three) postoculars; temporals \(2+2\), lower anterior wedged in between the fifth and sixth labials; six upper labials, third and fourth entering the eye; three lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 15 rows; 17—20 on the neck; ventrals 170—225; anal divided; subcaudals 69—105.

Olive or reddish-brown or blackish above, the scales with black narrow edges or tipped with black, sometimes the black colour forms a reticulation. Lower surface olive, greyish or yellowish, darker at the outer ends of the ventrals, sometimes darker along the median line; tail yellow or orange at the end. Young specimens with a dark line across the rostral and two oblique, dark-edged yellow streaks, one in front, the other behind the eye. Length of head and body 1080 mm.; tail 340 mm.

**Habitat**: New Guinea (Sermowai river!, lake Sentani!, Humboldt Bay!, Lorentz river!, Merauke, Fly river, Port Moresby, Madew on St. Joseph river 2—3000 feet). — Australia.

2. **Diemenia olivacea** (Gray).


*Diemenia olivacea*, Boulenger, Cat. Sn. III 1896, p. 323, pl. XVIII, fig. 2 (s. syn.).

Rostral more broad than deep, visible from above; nasal divided, in contact with the praecocular; internasals about half the length of the praefrontals; frontal much longer than its distance from the tip of the snout, shorter than the parietals; one praec- and two postoculars; temporals \(2+2\), lower anterior wedged in between the fifth and sixth upper labials, sometimes reaching the lip; six upper labials, third and fourth entering the eye; three or four lower labials in contact with the anterior chin-shields; latter shorter than the posterior. Scales in 15 rows, 17 on the neck; ventrals 162—215; anal divided; subcaudals 79—99.

Olive, reddish or dark brown above, the greater part of the scales black at the base, some with light edges; snout and sides of head speckled or vermiculated with dark brown; an oblique dark streak below the eye to beyond the angle of the mouth, disappearing in adult specimens. Lower surface yel-
lowish, uniform or speckled with olive; throat and anterior ventrals spotted with black in the young; tail yellow or red. Length of head and body 770 mm.; tail 240 mm.

Type-specimen examined in the British Museum.


69. Pseudechis Wagler.


Head distinct from neck; eye moderate or small; pupil round; canthus rostralis distinct; nostril between two nasals; loreal absent. Maxillary teeth 2 large, grooved fangs followed by 2—5 small solid teeth; anterior mandibular teeth longest. Body round, covered with smooth scales without pits, in 17—23 rows, more on the neck; ventrals rounded. Tail moderate; subcaudals in two rows or partly single, partly in two rows.

Distribution. New Guinea; Australia.

Key to the Indo-Australian species.

A. Anal divided; anterior subcaudals single.

I. Scales in 17 rows . . . . . . . . . . . . . . . . . . . . I. P. australis p. 268.
II. Scales in 19 or 21 rows . . . . . . . . . . . . . . . 2. P. papuanus p. 269.

B. Anal entire; subcaudals in two rows; scales in 23 rows. 3. P. scutellatus p. 269.

1. Pseudechis australis (Gray).


Eye small, almost as large as its distance from the mouth. Rostral more broad than deep, visible from above; posterior nasal in contact with the praecocular; internasals half as long as the praefrontals; frontal small, as long as its distance from the rostral, much smaller than the parietals; one praec- and two postoculars; temporals 2 + 2, lower anterior wedged in between the fifth and sixth labials; six upper labials, third and fourth entering the

Fig. 108. Pseudechis australis (Gray).

Upper view of head.
eye, third larger than fourth; three lower labials in contact with the anterior chin-shields; latter shorter than the posterior, which are separated by a scale. Scales in 17 rows, 19 or 20 on the neck; ventrals 199—220; anal divided; subcaudals 57—70, the 26—41 anterior single.

Pale brown above; yellowish below. Length of head and body 910 mm.; tail 170 mm.

Type-specimen examined in the British Museum.

Habitat: S. New Guinea (Etna Bay!). — N. and N. E. Australia.


Pseudechis papuanus, Boulenger, Cat. Sn. III 1896, p. 331.

Eye smaller than its distance from the mouth. Rostral more broad than deep, visible from above; posterior nasal in contact with the praeocular; internasals smaller than the praefrontals; frontal small, as long as the praefrontals, half as long as the parietals; one prae- and two postoculars; temporals 2 + 2, lower anterior large, wedged in between the fifth and sixth labials; six upper labials, third and fourth entering the eye, third larger than fourth; three lower labials in contact with the anterior chin-shields; latter shorter than the posterior, which are separated by two scales. Scales in 19 or 21 rows, 26 or 27 on the neck; ventrals 221—224; anal divided; subcaudals 49—61; the 26 or 27 anterior single.

Blackish above and below, chin whitish. Length of head and body 1690 mm.; tail 210 mm.

Habitat: S. E. New Guinea (Yule Island, Port Moresby, Rigo!).


Pseudechis scutellatus, Boulenger, Cat. Sn. III 1896, p. 331.
Eye moderate, larger than its distance from the mouth. Rostral as deep as broad or more broad, visible from above; posterior nasal in contact with or narrowly separated from the praecocular; internasals shorter than the praefrontals; frontal as long as its distance from the rostral or the tip of the snout, as long as or shorter than the parietals; praefrontal single or divided; two postoculants; temporals 2 + 3, anterior lower wedged in between the fifth and sixth labials; six upper labials, third and fourth entering the eye; three lower labials in contact with the anterior chin-shields; latter as long as the posterior. Scales in 23 rows, 25—30 on the neck; ventrals 230—233; anal entire; subcaudals 61—78 in two rows.

Pale brown or blackish-brown above; snout and sides of head lighter or yellowish. Lower surface yellowish, in the young spotted with dark. Length of head and body 830 mm.; tail 240 mm.

Habitat: New Guinea (Fly river!). — Queensland; N. Australia.

70. Micropechis Boulenger.

(Boulenger, Cat. Sn. III p. 346, 1896).

Head distinct from neck; eye small, pupil round; nostril between two nasals; loreal absent. Maxillary teeth 2 large, grooved fangs, followed by three small solid teeth; anterior mandibular teeth longest. Body round, covered with smooth scales without pits, in 15 or 17 rows; ventrals rounded. Tail short; subcaudals in two rows.

Distribution. New Guinea; Solomon Islands.

A single species.

1. Micropechis ikaheka (Lesson).

Coluber ikaheka, Lesson, Voy. Coquille, Zool. II Rept. 1839, p. 54, pl. V.

Micropechis ikaheka, Boulenger, Cat. Sn. III 1896, p. 347 (s. syn.).

Eye not quite half so long as its distance from the mouth. Rostral more broad than deep, visible from above; posterior nasal in contact with the praecocular; internasals shorter than the praefrontals; frontal broader than the supraocular, as long as its distance from the rostral or the tip of the snout, shorter than the parietals; one praec- and two postoculants; temporals 2 + 2, anterior large, the lower wedged in between the fifth and sixth upper labials; six upper labials, third and fourth
entering the eye; three or four lower labials in contact with the anterior chin-shields; latter as long as or shorter than the posterior. Scales in 15 rows; ventrals 178—223; anal divided; subcaudals 37—55.

Yellow and black above, sometimes in irregular transverse bands; the black scales edged with yellow; head and tail black.

Fig. 110. Miacephalis ikaheka (Less.). X 3/9.

Lower surface yellow, sometimes some of the shields black- edged. Length of head and body 1370 mm.; tail 180 mm.

Habitat: Batanta; New Guinea (Mafoor, Mios nom, Jobi, Sorong, Fak Fak, Andai, Mt. Arfak, Mansinam, Mt. Karon, Rubi, Koimé river!, Humboldt Bay, Mimika and Lorentz rivers, Germaniabucht, Stephansort on Astrolabe Bay, Sattelberg, Haveri, Dinawa 4000 feet, Valise Island).

71. Acanthophis Daud.


Head distinct from neck; eye small; pupil vertically elliptic; nostril in the upper part of the nasal; loreal absent. Maxillary teeth 2 large grooved fangs, followed by two or three small teeth; anterior mandibular teeth strongly enlarged. Body stout, round, covered with keeled scales without pits, in 21 or 23 rows; ventrals rounded. Tail short, compressed posteriorly and ending in a long spine, directed upwards; anterior subcaudals single, posterior in two rows.

Distribution. Borneo; Moluccas; New Guinea; Australia.

A single species.
1. Acanthophis antarcticus (Shaw).

*Boa antarctica*, Shaw, Nat. Misc., 1794, pl. 535.
*Acanthophis antarcticus*, Boulenger, Cat. Sn. Ill 1896, p. 355 (s. syn.).

Head with elevated sides; lores oblique; eye much shorter than its distance from the mouth. Rostral more broad than deep, with horizontal edge; nasal large, in contact with the praeocular; internasals as long as or shorter than the praefrontals; frontal narrower than the supraocular, as long as or shorter than its distance from the tip of the snout, as long as or longer than the parietals; supraocular sometimes angular and horn-like; the head-shields rugose or striated; one praec- and two postoculars; two or three suboculars; temporals 2—3 + 2—4; six or seven upper labials, separated from the eye; four lower labials in contact with the anterior chin-shields; latter as long as or shorter than the posterior. Scales in 21 or 23 rows, dorsals keeled; ventrals 113—136; anal entire; subcaudals 41—57, the 5—27 last divided.

Yellowish, reddish or greyish-brown above, with dark trans-
verse bands, sometimes indistinct, with or without small black spots; sides black-spotted; lips with black spots or bars. Lower surface yellowish-white, sometimes spotted with brown or black; end of tail yellow or black. Length of head and body 700 mm.; tail 150 mm.

**Habitat:** Borneo 1); Obi; Ceram!; Haruku; Timor Laut; Kei Islands; Aru Islands; New Guinea (Jobi, Mafoor, Yule Island, Dorei, Rubi, Andai, Mt. Arfak, Mansinam, Manokwari, Pokembo, lake Sentani, Koimé river!, Tami river!, Humboldt Bay, Tana, Etna Bay, Mimika river, Lorentz river!, Paup, Bogadjim, Stephansort and Bongu on Astrolabe Bay, Berlinhafen, Friedrich-Wilhelmshafen, St. Josephs river, Inawi, S. of Huon Gulf); Schouten Islands (Mysore). — N. W. Australia; Queensland; New South Wales.

Feeds on small birds and frogs.

### 6. Fam. AMBLYCEPHALIDAE.

Body usually compressed, covered with imbricate scales; ventrals transversely enlarged. Bones of the head slightly movable; ectopterygoid present; pterygoid short, not extending to the quadrate or the mandible; supratemporal rudimentary; praefrontal not in contact with the nasal. Maxillary horizontal, parallel with or converging towards the palatine; mandible without coronoid; solid teeth in both jaws; no mental groove (fig. 113).

Nocturnal; feeding on worms and slugs.

**Key to the Indo-Australian genera.**

A. Subcaudals single; scales in 13 rows . . . . . . . . . . . 1. *Haplopettura* p. 273.
B. Subcaudals in two rows; scales in 15 rows. . . . 2. *Amblycephalus* p. 275.

1. **Haplopettura** Dum. & Bibr.


Head distinct from neck; eye large, with vertical pupil; nasal single; maxillary short, deep, with 5 equal teeth; maxillary and mandibular teeth decreasing in size posteriorly. Body strongly compressed, covered with smooth scales, oblique, in

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13 rows, the vertebral row strongly enlarged; ventrals rounded. Tail moderate; subcaudals single.

Distribution. Malay Peninsula; Sumatra; Java; Borneo. A single species.

Fig. 112. Haplopeltura boa (Boie). Nat. size. Side view of head. \( \times 2\frac{1}{2} \).
1. **Haplopeltura boa** (Boie).


*Haplopeltura boa*, Boulenger, Cat. Sn. III 1896, p. 439 (s. syn.).

Snout very short, deep; rostral narrow, much more deep than broad; frontal not broader than the supraocular, almost twice as long as broad, longer than its distance from the tip of the snout, as long as or a little longer than the parietals; two or three enlarged occipitals; two or three superposed loreals, the lower sometimes entering the eye; 6—8 shields in addition to the supraocular round the eye; temporals 3 + 3 or 4; eight to ten upper labials; two pair of lower labials in contact behind the mental; three or four pair of large chin-shields, the anterior sometimes fused or preceded by an azygous shield. Scales in 13 rows; ventrals 148—191; anal entire; subcaudals 88—127.

Pale brown or yellowish above, usually with large, dark brown blotches, sometimes extending to the belly; a large, dark brown spot on the head; sides of head whitish, with dark streaks radiating from the eye. Lower surface yellowish, mottled with dark brown. Length of head and body 530 mm.; tail 220 mm.

**Habitat**: Nias!; Sumatra 1) (Peudawa in Atjeh); Banka!, Borneo (Kuching, Saribas, Pankalan ampat, Baram, Sandakan Bay); Java (Buitenzorg, Barang!, Nongkodjadjar in Tengger Mts. 1300 M.!); Moluccas? 2). — Malay Peninsula up to 2000 feet; Siam; Penang; Philippines.

2. **Amblycephalus** Kuhl.

(Kuhl, Isis p. 474, 1822).

Head distinct from neck; eye moderate, with vertical pupil; nasal single; maxillary short, deep, with 5 or 6 equal teeth; mandibular teeth decreasing in size. Body compressed, covered with smooth or feebly keeled scales, oblique, in 15 rows, the vertebral row sometimes enlarged; ventrals rounded. Tail short or moderate; subcaudals in two rows.

**Distribution**: S. E. Asia; Malay Peninsula and Archipelago.

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2) See BOULENGER'S Catalogue.
Key to the Indo-Australian species.

A. One or two labials entering the eye; one shield between the nasal and the eye; praefrontal entering the eye.

B. A series of suboculars; loreal and praecocular distinct.

1. Amblycephalus laevis Boie.

Amblycephalus laevis, Boie, Isis, 1827, p. 520.
Amblycephalus laevis, Boulenger, Cat. Sn. III 1896, p. 441 (s. syn.).

Rostral a little more broad than deep; praefrontal entering the eye; frontal as long as broad or slightly more broad than long, as long as its distance from the tip of the snout or a little longer, two thirds the length of the parietals; supraocular very small; loreal entering the eye; no praecocular; one or two postoculars; temporals 2 + 2; six upper labials, third and fourth or third to fifth entering the eye, last very long; mental in contact with a small azygous chin-shield; third lower labial in contact with its fellow; two pair of large chin-shields, more broad than long. Scales in 15 rows, smooth, the vertebral row enlarged; ventrals 148—176; anal entire; subcaudals 34—69.

Brown above, with irregular transverse dark bands; sides dull orange. Lower surface brown or yellowish, with brown spots or transverse brown spots on the sides. Length of head and body 480 mm.; tail 65 mm.

Habitat: Sumatra (Peudawa in Atjeh, Labuan, Deli!, Raja Mts., Gunung Sahilan!, Indragiri); Banka!; Natuna Islands; Borneo (Kina Balu, Bongon, Baram river, Kuching, Pangkalan ampat, Limbang, Kidi district, Sarawak, Bandjermassin!); Java! (Buitenzorg). — Malay Peninsula.

2. Amblycephalus malaccanus (Ptrs.).

Amblycephalus malaccanus, Boulenger, Cat. Sn. III 1896, p. 442.

Rostral a little more broad than deep; praefrontal entering the eye; frontal as long as broad or a little more broad, as long as or longer than its distance from the tip of the snout, much shorter than the parietals; supraocular small; loreal entering
the eye; no preocular; two postoculars; temporals 2 + 2, sometimes the two upper fused; seven upper labials; third and fourth entering the eye, last large; mental in contact with a small azygous shield; second or third lower labial usually in contact with its fellow; two pair of large chin-shields, more broad than long. Scales in 15 rows, smooth, three median rows enlarged; ventrals 154—170; anal entire; subcaudals 26—55.

Pale brown or yellowish above, with irregular dark transverse bars, sometimes interrupted on the vertebral line; median dorsal scales yellowish; head sometimes light; sides of neck black. Lower surface whitish, sometimes speckled with brown; neck black below. Length of head and body 390 mm.; tail 50 mm.

Habitat: Mentawei Islands (Siberut!); Sumatra (Deli!, Kajutan!, Indragiri, Benakat in Palembang); Borneo (Bongon, Mt. Dulit, Sarawak, Samarinda!). — Malay Peninsula.

3. Amblycephalus nuchalis Boulenger.


Rostral as broad as deep; prefrontal entering the eye; frontal one time and two thirds as long as broad, twice as long as its distance from the tip of the snout, one time and a half as long as the parietals; two preoculars; two postoculars; three narrow suboculars; three superposed anterior temporals; a pair of nuchals; eight upper labials, last very long; first lower labial in contact behind the mental; three pair of large chin-shields, first more broad than long. Body strongly compressed; scales in 15 rows, dorsals feebly keeled; the enlarged vertebrals bicarinate; ventrals 195—213; anal entire; subcaudals 105—113.

Pale buff, with narrow brown transverse lines and dark dots; a large black blotch on the nape with a black line on each side of the eye; a black vertical line below the eye and on the temple. Length of head and body 365 mm.; tail 125 mm.

Habitat: Borneo (Matang, Saribas!).

4. Amblycephalus carinatus Boie.

Amblycephalus carinatus, Boie, Isis, 1828, p. 1035.
Amblycephalus carinatus, Boulenger, Cat. Sn. Ill 1896, p. 445 (s. syn.).

Rostral more deep than broad; prefrontal separated from the eye; frontal as long as broad or a little more long, longer than its distance from the tip of the snout, as long as or a little
shorter than the parietals; loreal more deep than long; one or two praeoculars; one or two postoculars; two or three suboculars; temporals $2 + 3$ or $3 + 4$; seven or eight upper labials, last very long; first lower labial in contact with its fellow behind the mental; three pair of large chin-shields, more broad than long. Scales in 15 rows, three median rows enlarged and feebly keeled; ventrals 161—189; anal entire; subcaudals 53—80. Yellow or reddish-brown above, with black transverse spots or mediainly interrupted transverse bars; a black line on each side behind the eye, confluent with an X-shaped spot on the nape; an oblique black line from below the eye to the anterior border of the last upper labial. Lower surface yellow, dotted with black or with black lines or a median black line. Length of head and body 385 mm.; tail 115 mm.

Habitat: Sumatra (Langkat, Medan!); Borneo (Labuan, Singkawang, Samarinda!, Bandjermassin); Java (Batavia!, Buitenzorg!, Depok, Tjibodas, Mt. Pangerango 4500 feet, Sukabumi, Salatiga!, Malang!, Mt. Willis, Tengger Mts. 1200 M., Prigan 1800—2300 feet). — Burma; Cochin China; Siam.

Fig. 113. *Amblycephalus carinatus* Boie. Nat. size. Chin-shields. $\times 3$. 
7. Fam. Viperidae.

Body round or compressed, covered with imbricate scales with or without apical pits, smooth or keeled; ventrals transversely enlarged. Bones of head movable; ectopterygoid present, extending to the mandible; supratemporal suspending quadrate; praefrontal not in contact with the nasal. Maxillary short, vertical, supporting a pair of large perforated poison-fangs; mandible without coronoid; a mental groove.

Semi-nocturnal; mostly ovoviviparous. All Viperidae are poisonous; they include burrowing, terrestrial, semi-aquatic and arboreal forms. Of the two sub-families: Viperinae (without a pit on the snout) and Crotalinae (with a deep pit on each side of the snout) only the latter occurs in the Indo-Australian region. About the occurrence of Vipera russelli (Shaw) belonging to the Viperinae, in Sumatra and Java, no certainty exists. In Boulenger's Catalogue III p. 490 this species is mentioned from those islands, Java with a ? ; in Duméril & Bibron VII 1854, p. 1435, a specimen from Java is mentioned. Other records could not be found and as it is missing in Borneo and the Malay Peninsula this Viper probably does not belong to the fauna of the above-named islands. Its habitat is: Ceylon, India, Burma and Siam.

Key to the genera.

A. Head covered above with large symmetrical shields. 1. Agkistrodon p. 279.
B. Head covered above with scales or small shields . . . 2. Lachesis p. 281.

1. Agkistrodon Palisot de Beauvois.


Head distinct from neck; eye with vertical pupil. Nine shields on the head or internasals and praefrontals broken up into scales. Body round, covered with smooth or keeled scales, with apical pits. Tail short or moderate; subcaudals single or in two rows.

Distribution. Round the Caspian Sea; Asia; N. and C. America. A single species.

1. Agkistrodon rhodostoma (Boie).

Trigonocephalus rhodostoma, Boie, Isis, 1827, p. 561.
Ancistrodon rhodostoma, Boulenger, Cat. Sn. III 1896, p. 527 (s. syn.).

Snout somewhat turned up at the end; rostral as deep as broad or a little more deep; internasals and praefrontals present; frontal as long as its distance from the tip of the snout or a little longer, about as long as the parietals; loreal separating the posterior nasal from the upper praecocular; one or two postoculars; one subocular; loreal pit separated from the labials; 7—9 upper labials. Scales in 21 rows, smooth; ventrals 138—161; anal entire; subcaudals 33—54, in two rows.

Grey, reddish or light brown above, with large angular, dark brown spots in pairs or alternating, the spots black-edged; a dark median line on the back; lips yellow or pink, brown-dotted; a broad brown, black-edged band, wavy below, from the eye to the corner of the mouth, with a light band above. Lower surface yellowish, uniform or with greyish-brown spots or dots. Length of head and body 720 mm.; tail 90 mm. Largest specimen known 900 mm.
Nom. indig. Ular biludak; ular tanah, ular gebuk, ular bandotan bedor; oraj lemah (C. Java).

Habitat: Sumatra! (Siboga); Java (Batavia, Buitenzorg!, Anjer, Gunung Bunder, Depok, Bantam, Mt. Willis 5000 feet). — Malay Peninsula; Siam.

A dangerous, poisonous snake, feeding on mammals, small birds and frogs. The female deposits 15—20 eggs and watches over them.

2. Lachesis Daudin.


Head distinct from neck; eye with vertical pupil. Head covered above with scales or small shields. Body round or

Fig. 116. Lachesis wagleri (Boie). Head × 1½.

compressed, covered with smooth or keeled scales, with or without apical pits. Tail short or moderate; subcaudals single or in two rows.

Distribution. South-Eastern Asia; Central and South America.
Key to the Indo-Australian species.

A. Scales between the eyes smooth or obtusely keeled; gular scales smooth.
I. Snout not prominent, not raised above the nostrils.
   a. Supraoculars large.
      1. Supraoculars separated by 5—8 scales; scales smooth or feebly keeled, in 21—25 (27) rows; ventrals 132—158; tail not prehensile ....... 1. L. monticola p. 282.
      2. Supraoculars separated by 4—9 scales; scales feebly keeled, in 21 rows; ventrals 180—191; tail prehensile ................. 2. L. sumatranus p. 283.
      3. Supraoculars separated by 6 scales; scales feebly keeled, in 21 rows; ventrals 162; tail feebly prehensile. 3. L. fasciatus p. 284.
   b. Supraoculars narrow if distinct.
      aa. Supraoculars separated by 12—15 scales; scales strongly keeled, in 25 or 27 rows; ventrals 160—182; tail slightly prehensile. .............. 4. L. purpureomaculatus p. 284.
      bb. Supraoculars separated by 8—13 scales; scales almost smooth or distinctly keeled, in 19—23 rows; ventrals 145—175; tail prehensile. ... 5. L. graminicus p. 285.
II. Snout prominent, the upper edge raised above the nostrils ............... 6. L. puniceus p. 286.
B. Scales between the eyes strongly keeled;
   gular scales keeled ................. 7. L. wagleri p. 286.

1. Lachesis monticola (Gthr.).

Trimeresurus monticola, Günther, Rept. Brit. Ind. 1864, p. 388, pl. XXIV, fig. B. Lachesis monticola, Boulenger, Cat. Sn. III 1896, p. 548 (s. syn.).

Snout very short; eye small. Rostral as broad as deep or a little more broad; nasal divided or partly divided; scales on the head small, smooth; supraocular large; 1—3 scales between the internasals, which are sometimes in contact; 5—8 scales between the supraoculars; eight or nine upper labials, separated from the eye by 3 or 4 rows of scales; second labial usually bordering the loreal pit anteriorly; temporal scales
smooth. Scales feebly keeled or almost smooth, in 21—25 rows (27); ventrals 132—158; anal entire; subcaudals 21—57, in two rows; tail not prehensile.

Brown or yellowish above, with one or two series of large dark brown squares on the back and a lateral series of small spots; head dark brown above, lighter on the sides; a dark brown temporal streak; lips with two broad, oblique, dark brown bands between three light ones. Lower surface whitish, powdered with brown or with brown spots, which fuse sometimes in two stripes. Length of head and body 625 mm.; tail 115 mm.

Habitat: Sumatra. — Singapore; Penang; Malay Peninsula; Burma; Assam; Himalayas; Tibet.

Oviparous; about 10 eggs are laid.

The occurrence of this species in the Indo-Australian Archipelago is indicated by Bouleenger in his Catalogue and in Fauna of Malay Peninsula 1912, p. 216.

2. Lachesis sumatranus (Raffles).


Lachesis sumatranus, Bouleenger, Cat. Sn. III 1896, p. 557 (s. syn.).

Head long; snout short; eye moderate. Rostral as broad as deep or a little more broad; nasal entire or divided; scales on the head large, smooth, largest on the snout; supraocular large; no scales or only one between the internasals; 4—9 scales between the supraoculars; two or three postoculars; a subocular, in contact with the third or third and fourth labials; nine to eleven upper labials, second bordering the loreal pit, third largest; temporal scales smooth. Scales feebly keeled, in 21 rows; ventrals 180—191; anal entire; subcaudals 58—82, in two rows; tail prehensile.

Bright green above, the scales usually black-edged, with or without black transverse bands; sometimes two series of small light spots on the back; a yellowish streak on each side along the outer row of scales usually present. Lower surface yellowish or green, sometimes the ventrals black-edged; end of tail red. Length of head and body 1093 mm.; tail 167 mm.

Nom. indig. Bǐrǐt tiu (Simalur); ular bisa (W. Sumatra).

Habitat: Simalur; Nias; Mentawai Islands (Sipora); Sumatra (Deli!, Langkat, Battak Highlands 800—1000 M., Indra-
giri, Tandjung Morawa, Kertadjaja, Tandjung Laut in Palembang); Banka!; Biliton; Borneo (Mt. Dului, Baram, Bandjermassin). — Singapore; Malay Peninsula, abundant at elevations of 2000—3000 feet; Palawan.

3. **Lachesis fasciatus** Boulenger.


Snout a little turned up, with strong edge. Rostral more broad than deep; nasal entire; scales on the head small, smooth on the snout and between the eyes, obtusely keeled on the occiput; supraocular large; one scale between the internasals, which are large; 6 scales between the supraoculars; two postoculars; a subocular, separated from the labials by one series of scales anteriorly, two posteriorly; nine or ten upper labials, first fused with the nasal, second bordering the loreal pit, third largest; temporal scales obtusely keeled. Scales feebly keeled, in 21 rows; ventrals 162; anal entire; subcaudals 60, in two rows; tail feebly prehensile.

Grey-brown above, with numerous dark olive transverse bands, some of them broken up on the vertebral line and alternating; head uniformly dark olive. Lower surface whitish, speckled with dark brown. Length of head and body 375 mm.; tail 80 mm.

Type-specimen examined in the British Museum.

Habitat: Djampea Island.

4. **Lachesis purpureomaculatus** (Gray).

*Trigonocephalus purpureomaculatus*, Gray, III. Ind. Zool. II 1832, pl. LXXXI.  
*Lachesis purpureomaculatus*, Boulenger, Cat. Sn. III 1896, p. 553 (s. syn.).

Snout short; eye small. Rostral as broad as deep; nasal entire; scales on the head very small, convex or obtusely keeled; supraocular very narrow, sometimes broken up; one or two scales between the internasals, which are small; 12—15 scales between the supraoculars; two or three small postoculars; a subocular, separated from the labials by two or three series of scales; eleven to thirteen upper labials, first usually fused with the nasal, second usually bordering the loreal pit anteriorly, fourth and rest small; temporal scales keeled. Scales strongly keeled, in 25 or 27 rows; ventrals 160—182; anal entire; subcaudals 55—76, in two rows; tail slightly prehensile.

Purplish-brown or blackish above, uniform or variegated
with pale green; flanks pale green or spotted with pale green, or with pale spots on the outer row of scales; some specimens uniformly green. Lower surface olive or greenish-white, uniform or spotted with black. Length of head and body 830 mm.; tail 150 mm.

Habitat: Sumatra (Deli). — Malay Peninsula!; Penang!; Singapore; Andamans; Nicobars; Burma; Assam; Bengal; E. Himalayas.

5. Lachesis gramineus (Shaw).

Coluber gramineus, Shaw, Zool. III 1802, p. 420.
Lachesis gramineus, Boulenger, Cat. Sn. III 1896, p. 554 (s. syn.).

Snout with distinct edge; eye small. Rostral as broad as deep or a little more broad; nasal usually entire; scales on the head small, smooth; supraocular narrow, sometimes divided; one or two scales between the internasals or latter shields in contact; 8—13 scales between the supraoculars; two or three postoculars; a subocular, sometimes in contact with the third labial, usually separated from the labials by one to three series of scales; eight to twelve upper labials, second bordering the loreal pit anteriorly, third largest; temporal scales smooth. Scales almost smooth or keeled, in 21 (19 or 23) rows; ventrals 145—175; anal entire; subcaudals 52—78, in two rows; tail prehensile.

Bright green above, or olive or yellowish, with or without indistinct black transverse bands; a light, yellowish streak usually present along the outer row of scales; end of tail yellow or red. Lower surface green, yellow or whitish. Length of head and body 720 mm.; tail 150 mm.

Nom. indig. Ular bisa (W. Sumatra); oraj bungka (sund.); esau (Timor); semelo (Kupang); keisau (Rotti).

Habitat: Nias; Sumatra (Deli!, Labuan, Langkat, Battak Highlands 800—1000 M., Indrapura, Padang Highlands!); Borneo (Kina Balu, Saiap on Kina Balu, Mt. Dulit, Pangkalalan ampat); Java! (Batavia, Buitenzorg, Krawang, Semarang); Lombok; Sumbawa; Flores!; Adonara!; Alor (Ombaai); Roma!; Sumba!; Rotti; Timor!; Samao!—Penang; Malay Peninsula; Andamans; Nicobars; S. China; Siam; Bengal; Himalayas; Philippines.
Found on trees; feeds on small mammals, birds, lizards and amphibians. The female brings forth 7—12 young ones.


*Cophias punicea*, Boie, Isis, 1827, p. 561.
*Bothrops sandakanensis*, v. Lidth de Jeude, Notes Leyden Mus. 1893, p. 256.

Snout short, truncate, with sharp, raised angle, especially above the nostrils; eye small. Rostral as broad as deep or a little more deep; scales on the head small, smooth; supraocular narrow or broken up into pointed, erect scales; two pair of internasals; 9—14 scales between the supraoculars; two to four postoculars; one or two suboculars, separated from the labials by two or three series of scales; ten to twelve upper labials, sometimes second bordering the labial pit, third largest; first lower labial divided, forming a pair of chin-shields; temporal scales smooth or obtusely keeled. Scales feebly keeled, in 19—23 rows; ventrals 144—176; anal entire; subcaudals 38—65, in two rows; tail prehensile.

Grey, brown or reddish above, with dark spots, the spots sometimes black-edged and forming a wavy band on the back; a light dark-edged streak on each side of the head behind the eye. Lower surface brown with a series of yellowish spots on each side or speckled with brown; end of tail reddish. Length of head and body 690 mm.; tail 102 mm.

Nom. indig. Ular gibuk; oraj lemah (sund.); sawah tadung or sawah tadung bisa (Simalur).

Habitat: Simalur!; Sumatra (Battak Highlands 800—1000 M., Padang!); Natuna Islands; Borneo (Pangkalan ampat, Kuching, Baram river, Kidi district, Matang, Paitan, Mt. Dulit, Sandakan Bay!, Samarinda!); Java (Buitenzorg!, Mt. Salak, Sukabumi, Mt. Willis 5000 feet, Tengger Mts. 1200 M.). — Malay Peninsula 3000 feet.


*Cophias wagleri*, Boie, Isis, 1827, p. 561.
*Lachesis wagleri*, Boulenger, Cat. Sn. III 1896, p. 562 (s. syn.).
Head very broad; snout short and broad, with rather distinct canthus; eye very small. Rostral as broad as deep or a little more broad; nasal entire; scales on the head small, keeled; supraocular narrow or broken up; internasals sometimes indistinct; 7—13 scales between the supraoculars; one to three postoculars; a subocular, separated from the labials by one or two series of scales, sometimes in contact with the third labial; eight to ten upper labials, second not bordering the loreal pit, third very large; temporal scales keeled; gular scales keeled.

Scales keeled, in 21—25 (19 or 27) rows; ventrals 127—154; anal entire; subcaudals 45—56, in two rows; tail prehensile.

Green above, the scales black-edged, with bright yellow, black-edged transverse bands (fig. 117, upper snake), or black with yellow transverse bands, or green above with large red, black-edged spots; head black, yellow-spotted. Lower surface yellow or greenish, the ventrals black-edged, or white with black spots and powdered with red; end of tail black or red. Young specimens green, with yellow or white transverse lines, edged with blue or purple posteriorly (fig. 117, lower snake), or with two series of small spots on the back; a light line on each side of the head, passing through the eye and edged below with blue or purple. Lower parts white or green, uniform or with black borders to the scales; end of tail red or reddish-brown. Length of head and body 830 mm.; tail 150 mm.

Nom. indig. Ular nanti bulau (mal.); djalimoo (Toradja-name).
Habitat: Nias; Mentawei Islands (Siberut!); Sumatra (Medan!, Labuan, Bindjey, Bedagei, Langkat, Raja Mts., Battak Highlands 800—1000 M., Kaju tanam!, Gunung sahilan!, Pakanten!, Ajerbangis!, Padang!, Indragiri, Djambi!, Indrapura, Kertadjaja in Palembang); Banka!; Biliton; Natuna Islands; Borneo! (Kuching, Mt. Dulit, Kapuas river, Baram river, Rejang river, Pangkalan ampat, Busau, Oya, Sebruang Valley, Labuan, Sandakan, Muara Djawa!, Pontianak, Singkawang, Sintang, Sungei Duri); Celebes! (Minahassa, Posso!, between Posso and Tomini Gulf, Bone Valley 650—1000 feet, Sonder, Kandari); Sangir Islands. — Singapore; Penang; Malay Peninsula; Philippines.

Lives on the ground and on trees; feeds on mammals, birds and lizards. It is said to be very slow and is kept in trees near the house, in order to bring good luck to its people. From time to time a small bird (*Cymborhynchus macrorhynchos* Gm.) comes to feed it. (See: Ouwens, De Indische Giftslangen 1916, p. 22).
DISTRIBUTION
OF SPECIES ON THE ISLANDS OF THE
INDO-AUSTRALIAN ARCHIPELAGO.

Simalur.
Python reticulatus (Schneider)
Xenopeltis unicolor Reinw.
Tropidonotus chrysargus Schlegel
Coluber melanurus Schlegel
Lycodon subcinctus Boie
Calamaria elegans de Rooy
Calamaria simalurensis de Rooy
Calamaria lautensis de Rooy
Hypsirhina albomaculata (D. B.)
Cerberus rhynchops (Schneider)
Dipsadomorphus nigriceps (Gthr.)
Psammodynastes pictus Gthr.
Dryophis prasinus Boie
Naja bungarus Schlegel
Lachesis sumatranus (Raffles)
Lachesis punicetus (Boie)

Pulu Babi.
Dendrelaphis caudolineatus (Gray)
Platurus laticaudatus (L.)
Platurus colubrinus (Schneider)

Cocos Islands, N.W. off Simalur.
Calamaria lautensis de Rooy

Nias.
Typhlops lineatus Boie
Typhlops braminus (Daud.)
Typhlops nigroalbus D. B.
Python reticulatus (Schneider)
Xenopeltis unicolor Reinw.
Polyodontophis geminatus (Boie)
Dendrophis pictus (Gmel.)
Dendrelaphis caudolineatus (Gray)
Zaocys fuscus (Gthr.)
Tropidonotus trianguligerus Boie
Tropidonotus chrysargus Schlegel
Macropisthodon flaviceps (D. B.)
Coluber melanurus Schlegel
Coluber oxycephalus Boie
Lycodon subcinctus Boie
Lycodon albofuscus (D. B.)
Simotes octolineatus (Schneider)
Simotes purpurascens (Schlegel)
Oligodon trilineatus (D. B.)
Ablabes tricolor (Schlegel)
Ablabes baliodirus (Boie)
Psendorhabdium longiceps (Cantor)
Calamaria lumbricoidea (Boie)
Calamaria stahlknechtii Stol.
Hypsirhina albomaculata D. B.
Cerberus rhynchops (Schneider)
Dipsadomorphus dendrophilus (Boie)
Dipsadomorphus nigriceps (Gthr.)
Dipsadomorphus jaspidens (D. B.)
Dipsadomorphus cynodon (Boie)
Dryophis prasinus Boie
Chrysopelea ornata (Shaw)
Chrysopelea chrysochlora (Schlegel)
Platurus laticaudatus (L.)
Naja bungarus Schlegel
Doliophis bivirgatus (Boie)
Doliophis intestinalis (Laur.)
Haplopeltura boa (Boie)
Lachesis sumatranus (Raffles)
Lachesis gramineus (Shaw)
Lachesis wagleri (Boie)

**Pulu Nako.**

Cerberus rhynchops (Schneider)
Chrysopelea chrysochlora (Schlegel)

**Batu Islands.**

Dipsadomorphus dendrophilus (Boie)
Mentawei Islands.

Python reticulatus (Schneider)
Dendrophis pictus (Gmel.)
Dendrelaphis caudolineatus (Gray)
Tropidonotus trianguligerus Boie
Tropidonotus chrysargus Schlegel
Coluber melanurus Schlegel
Lycodon subcinctus Boie
Simotes purpurascens (Schlegel)
Calamaria everetti Boulenger.
Cerberus rhynchops (Schneider)
Dipsadomorphus nigriceps (Gthr.)
Dipsadomorphus cynodon (Boie)
Dryophis prasinus Boie
Dryophiops rubescens (Gray)
Chrysopelea ornata (Shaw)
Amblycephalus malaccanus (Ptrs.)
Lachesis sumatranus (Raffles)
Lachesis wagleri (Boie)

Engano.

Coluber enganensis Vincig.
Cerberus rhynchops (Schneider)
Psammodynastes pulverulentus (Boie)
Platurus colubrinus (Schneider)

Sumatra.

Typhlops lineatus Boie
Typhlops braminus (Daud.)
Typhlops nigroalbus D. B.
Typhlops müller Schlegel
Python reticulatus (Schneider)
Python curtus Schlegel
Anomalochilus weberi Lidth
Cylindrophis rufus (Laur.)
Xenopeltis unicolor Reinw.
Acrochordus javanicus Hornst.
Chersydrus granulatus (Schneider)
Xenodermus javanicus Reinh.
Anoplohydrus aemulans Werner
Iguanognathus werneri Boulenger
Opisthotropis rugosa (Lidth)
Xenochrophis viperinus Schenkel
Polyodontophis geminatus (Boie)
Dendrophis pictus (Gmel.)
Dendrophis formosus Boie
Dendrelaphis caudolineatus (Gray)
Zaocys tornieri Werner
Zaocys fuscus (Gthr.)
Zaocys carinatus (Gthr.)
Tropidonotus piscator (Schneider)
Tropidonotus conspicillatus Gthr.
Tropidonotus trianguligerus Boie
Tropidonotus petersi Blgr.
Tropidonotus vittatus (L.)
Tropidonotus chrysargus Schlegel
Tropidonotus maculatus Edeling
Macropisthodon flaviceps (D. B.)
Macropisthodon rhodomelas (Boie)
Xenelaphis hexagonotus (Cantor)
Zamenis korros (Schlegel)
Zamenis mucosus (L.)
Coluber porphyraceus Cantor
Coluber melanurus Schlegel
Coluber radiatus Schlegel
Coluber taeniurus (Cope)
Coluber oxycephalus Boie
Lycodon subcinctus Boie
Lycodon albofuscus (D. B.)
Lycodon aulicus (L.)
Lycodon effrenis Cantor
Dryocalamus subannulatus (D. B.)
Simotes octolineatus (Schneider)
Simotes signatus Gthr.
Simotes subcarinatus Gthr.
Simotes purpurascens (Schlegel)
Oligodon trilineatus (D. B.)
Oligodon durheimi Baumann
Oligodon petronellae Roux
Oligodon pulcherrimus Werner
Oligodon praefrontalis Werner
Elapoides fuscus Boie
Ablabes tricolor (Schlegel)
Ablabes baliodirus (Boie)
Ablabes longicauda Peters
Pseudorhabdium longiceps (Cantor)
Calamaria lumbricoidea Boie
Calamaria vermiciformis D. B.
Calamaria stahlknechti Stol.
Calamaria indragirica Schenkel
Calamaria margaritophora Bleeker
Calamaria sumatranana Edeling
Calamaria virgulata Boie
Calamaria leucogaster Bleeker
Calamaria mecheli Schenkel
Calamaria ornata Werner
Calamaria leucocephala D. B.
Calamaria agamensis Bleeker
Calamaria döderleini Gough
Calamaria schlegeli D. B.
Calamaria linnaei Boie
Calamaria javanica Blgr.
Calamaria pavimentata D. B.
Hypsirhina alternans (Reuss)
Hypsirhina plumbea (Boie)
Hypsirhina enhydris (Schneider)
Hypsirhina albomaculata (D. B.)
Hypsirhina punctata (Gray)
Homalopsis buccata (L.)
Cerberus rhynchops (Schneider)
Fordonia leucobalia (Schlegel)
Cantoria violacea Girard
Hipistes hydrius (Cantor)
Dipsadomorphus multimaculatus (Boie)
Dipsadomorphus drapiezii (Boie)
Dipsadomorphus dendrophilus (Boie)
Dipsadomorphus nigriceps (Gthr.)
Dipsadomorphus jaspideus (D. B.)
Dipsadomorphus cynodon (Boie)
Psammodynastes pulverulentus (Boie)
Psammodynastes pictus Gthr.
Dryophis prasinus Boie
Dryophis fasciolatus (Fischer)
Dryophiops rubescens (Gray)
Chrysopelea ornata (Shaw)
Chrysopelea chrysochlora (Schlegel)
Platurus laticaudatus (L.)
Platurus colubrinus (Schneider)
Enhydrina valakadyn (Boie)
Hydrus platurus (L.)
Hydrophis fasciatus (Schneider)
Hydrophis spiralis (Shaw)
Bungarus fasciatus (Schneider)
Bungarus candidus (L.)
Bungarus flaviceps Reinh.
Naja tripudians Merr.
Naja bungarus Schlegel
Callophis gracilis Gray
Doliophis bivirgatus (Boie)
Doliophis intestinalis (Laur.)
Haplopetura boa (Boie)
Amblycephalus laevis Boie
Amblycephalus malaccanus (Ptrs.)
Amblycephalus carinatus Boie
Agkistrodon rhodostoma (Boie)
Lachesis monticola (Gthr.)
Lachesis sumatranus (Raffles)
Lachesis purpureomaculatus (Gray)
Lachesis gramineus (Shaw)
Lachesis punicus (Boie)
Lachesis wagleri (Boie)

Siak.

Xenopeltis unicolor Reinw.
Acrochordus javanicus Hornst.
Simotes octolineatus (Schneider)
Cerberus rhynchops (Schneider)
Dipsadomorphus dendrophilus (Boie)
Thalassophis anomalous Schmidt
Bungarus fasciatus (Schneider)

Riou.

Typhlops braminus (Daud.)
Python reticulatus (Schneider)
Cylindrophis rufus (Laur.)
Xenopeltis unicolor Reinw.
Dendrophis pictus (Gmel.)
Dendrelaphis caudolineatus (Gray)
Coluber melanurus Schlegel
Coluber oxycephalus Boie
Dryocalamus subannulatus (D. B.)
Simotes octolineatus (Schneider)
Homalopsis buccata (L.)
Cerberus rhynchops (Schneider)
Dipsadomorphus dendrophilus (Boie)
Psammodynastes pulverulentus (Boie)
Psammodynastes pictus Gthr.
Dryophis prasinus Boie
Chrysopelea ornata (Shaw)
Naja tripudians Merr.
Doliophis bivirgatus (Boie)
Doliophis intestinalis (Laur.)

Singkep Island.

Tropidonotus conspicillatus Gthr.

Banka.

Typhlops braminus (Daud.)
Python reticulatus (Schneider)
Cylindrophis rufus (Laur.)
Xenopeltis unicolor Reinw.
Dendrophis pictus (Gmel.)
Zaocys fuscus (Gthr.)
Tropidonotus trianguligerus Boie
Tropidonotus vittatus (L.)
Macropisthodon rhodomelas (Boie)
Xenelaphis hexagonotus (Cantor)
Coluber melanurus Schlegel
Coluber oxycephalus Boie
Simotes octolineatus (Schneider)
Ablabes tricolor (Schlegel)
Hypsirhina alternans (Reuss)
Hypsirhina enhydris (Scheider)
Hypsirhina punctata (Gray)
Homalopsis buccata (L.)
Cerberus rynchops (Schneider)
Dipsadomorphus dendrophilus (Boie)
Dipsadomorphus cynodon (Boie)
Psammodynastes pulverulentus (Boie)
Psammodynastes pictus Gthr.
Dryophis prasinus Boie
Chrysopelea ornata (Shaw)
Chrysopelea chrysochlora (Schlegel)
Hydrus platurus (L.)
Naja tripudians Merr.
Doliophis bivirgatus (Boie)
Doliophis intestinalis (Laur.)
Haplopeltura boa (Boie)
Amblycephalus laevis Boie
Lachesis sumatranus (Raffles)
Lachesis wagleri (Boie)
Biliton.
Psammodynastes pictus Gthr.
Lachesis sumatranus (Raffles)
Lachesis wagleri (Boie)

Natuna Islands.
Python reticulatus (Schneider)
Dendrophis pictus (Gmel.)
Dendrelaphis caudolineatus (Gray)
Zaocys fuscus (Gthr.)
Tropidonotus conspicillatus Gthr.
Tropidonotus maculatus Edeling
Coluber oxycephalus Boie
Dryocalamus tristrigatus Gthr.
Ablabes baliodirus (Boie)
Calamaria vermiciformis D. B.
Psammodynastes pulverulentus (Boie)
Dryophis prasinus Boie
Dryophis fasciolatus (Fischer)
Dryophiops rubescens (Gray)
Chrysopelea ornata (Shaw)
Chrysopelea chrysochlora (Schlegel)
Amblycephalus laevis Boie
Lachesis puniceus (Boie)
Lachesis wagleri (Boie)

Borneo.
Typhlops lineatus Boie
Typhlops braminus (Daud.)
Typhlops olivaceus (Gray)
Typhlops nigroalbus D. B.
Python reticulatus (Schneider)
Python curtus Schlegel
Cylindrophis rufus (Laur.)
Cylindrophis lineatus Blanford
Xenopeltis unicolor Reinw.
Acrochordus javanicus Hornst.
Chersydrus granulatus (Schneider)
Xenodermus javanicus Reinh.
Stoliczkaia borneensis Boulenger
Opisthotropis typica (Mocq.)
Polyodontophis geminatus (Boie)
Dendrophis pictus (Gmel.)
Dendrophis formosus Boie
Dendrelaphis caudolineatus (Gray)
Zaocys fuscus (Gthr.)
Zaocys carinatus (Gthr.)
Tropidonotus piscator (Schneider)
Tropidonotus conspicillatus Gthr.
Tropidonotus trianguligerus Boie
Tropidonotus petersi Blgr.
Tropidonotus sarawacensis Gthr.
Tropidonotus flavifrons Blgr.
? Tropidonotus stolatus (L.)
Tropidonotus subminiatus Schlegel
Tropidonotus chrysargus Schlegel
Tropidonotus maculatus Edeling
Macropisthodon flaviceps (D. B.)
Macropisthodon rhodomelas (Boie)
Xenelaphis hexagonotus (Cantor)
Xenelaphis ellipsifer Blgr.
Zamenis korros (Schlegel)
Coluber melanurus Schlegel
Coluber radiatus Schlegel
Coluber oxycephalus Boie
Gonyophis margaritatus (Peters)
Lycodon subcinetus Boie
Lycodon albofuscus (D. B.)
Lycodon effrenis Cantor
Lepturophis borneensis Blgr.
Dryocalamus tristrigatus Gthr.
Simotes annulifer Blgr.
Simotes octolineatus (Schneider)
Simotes violaceus (Cantor)
Simotes subcarinatus Gthr.
Simotes purpurascens (Schlegel)
Oligodon everetti Blgr.
Oligodon vertebralis (Gthr.)
Hydrablabe periops (Gthr.)
Hydrablabe praefrontalis (Mocq.)
Ablabes tricolor (Schlegel)
Ablabes baliodirus (Boie)
Ablabes longicauda Peters
Oreocalamus hanitschi Blgr.
Idiopholis collaris Mocq.
Idiopholis everetti Shelford
Agrophis saravacensis Shelford
Agrophis albonuchalis (Gthr.)
Pseudorhabdium longiceps (Cantor)
Brachyorrhus albus (L.)
Calamaria vermiformis D. B.
Calamaria baluensis Blgr.
Calamaria grabowskyi Fischer
Calamaria prakkei Lidth
Calamaria sumatrana Edeling
Calamaria everetti Blgr.
Calamaria leucoaster Bleeker
Calamaria bicolor D. B.
Calamaria brookei Blgr.
Calamaria brachyura Blgr.
Calamaria lateralis Mocq.
Calamaria beccarii Peters
Calamaria rebentischi Bleeker
Calamaria picteti Peracca
Calamaria leucocephala D. B.
Calamaria agamensis Bleeker
Calamaria semiannulata Böttger
Calamaria schlegeli D. B.
Calamaria lignaci Boie
Calamaria borneensis Bleeker
Calamaria benjaminsi Edeling
Calamaria melanota Jan
Calamaria lowi Blgr.
Calamaria gracillima Gthr.
Calamaria hosei Gthr.
Hypsirhina alternans (Reuss)
Hypsirhina plumbea (Boie)
Hypsirhina enhydris (Schneider)
Hypsirhina punctata (Gray)
Hypsirhina doriae (Peters)
Homalopsis buccata (L.)
Cerberus rynchops (Schneider)
Fordonia leucobalia (Schlegel)
Cantoria violacea Girard
Dipsadomorphus multimaculatus (Boie)
Dipsadomorphus drapiezii (Boie)
Dipsadomorphus dendrophilus (Boie)
Dipsadomorphus nigriceps (Gthr.)
Dipsadomorphus jaspideus (D. B.)
Dipsadomorphus cynodon (Boie)
Psammodynastes pulverulentus (Boie)
Psammodynastes pictus Gthr.
Dryophis prasinus Boie
Dryophis fasciolatus (Fischer)
Dryophiops rubescens (Gray)
Chrysopelea ornata (Shaw)
Chrysopelea chrysochlora (Schlegel)
Platurus laticaudatus (L.)
Platurus colubrinus (Schneider)
Aipysurus eydouxi (Gray)
Enhydrina valakadyn (Boie)
Thalassophis anomalus Schmidt
Hydrus platurus (L.)
Hydropis gracilis (Shaw)
Hydropis floweri Blgr.
Hydropis diadema Gthr.
Hydropis fasciatus (Schneider)
Hydropis brookei Gthr.
Hydropis viperinus (Schmidt)
Hydropis jerdoni (Gray)
Hydropis brugmansi Boie
Hydropis saravacensis (Blgr.)
Enhydris hardwickei (Gray)
Bungarus fasciatus (Schneider)
Bungarus flaviceps Reinh.
Naja tripudians Merr.
Naja bungarus Schlegel
Doliophis bivirgatus (Boie)
Doliophis intestinalis (Laur.)
?Acanthophis antarcticus (Shaw)
Haplopeltura boa (Boie)
Amblycephalus laevis Boie
Amblycephalus malaccanus (Ptrs.)
Amblycephalus nuchalis Blgr.
Amblycephalus carinatus Boie
Lachesis sumatranus (Raffles)
Lachesis gramineus (Shaw)
Lachesis puniceus (Boie)
Lachesis wagleri (Boie)

Sibutu Island.

Dryophis prasinus Boie

Pulu Miang besar.

Typhlops lorenzi Werner

Java.

Typhlops lineatus Boie
Typhlops braminus (Daud.)
Typhlops polygrammicus Schlegel
?Typhlops kapaladua Annandale
Typhlops ater Schlegel
Typhlops bisubocularis Böttger
Python reticulatus (Schneider)
Python molurus (L.)
Cylindrophis rufus (Laur.)
Xenopeltis unicolor Reinw.
Acrochordus javanicus Hornst.
Chersydus granulatus (Schneider)
Xenodermus javanicus Reinh.
Polyodontophis geminatus (Boie)
Pseudoxenodon inornatus (Boie)
Dendrophis pictus (Gmel.)
Dendrophis formosus Boie
Dendrelaphis caudolineatus (Gray)
Zaocys carinatus (Gthr.)
Tropidonotus piscator (Schneider)
Tropidonotus trianguligerus Boie
Tropidonotus chrysargoides Gthr.
Tropidonotus vittatus (L.)
Tropidonotus subminiatus Schlegel
Tropidonotus chrysargus Schlegel
Macropisthodon rhodemelas (Boie)
Xenelaphis hexagonotus (Cantor)
Zamenis korros (Schlegel)
Zamenis mucosus (L.)
Coluber melanurus Schlegel
Coluber radiatus Schlegel
Coluber oxycephalus Boie
Lycodon subcinctus Boie
Lycodon aulicus (L.)
Tetralepis fuhstorferi Böttger
Simotes octolineatus (Schneider)
Simotes signatus Gthr.
Simotes purpurascens (Schlegel)
Oligodon bitorquatus Boie
Oligodon propinquus Jan
Elapoides fuscus Boie
Ablabes tricolor (Schlegel)
Ablabes libertatis (Barbour)
Ablabes baliodirus (Boie)
Ablabes longicauda Peters
Brachyorrhus albus (L.)
Calamaria lumbricoidea Boie
Calamaria vermiformis D. B.
Calamaria margaritophora Bleeker
Calamaria sumatrana Edeling
Calamaria occipitalis Jan
Calamaria virgulata Boie
Calamaria sondaica Barbour
Calamaria leucocephala D. B.
Calamaria agamensis Bleeker
? Calamaria bungaroides Werner
Calamaria linnaei Boie
Calamaria javanica Blgr.
Calamaria pavementata D. B.
Calamaria melanota Jan
Hypsirhina alternans (Reuss)
Hypsirhina plumbea (Boie)
Hypsirhina enhydrids (Schneider)
Homalopsis buccata (L.)
Cerberus rynchops (Schneider)
Fordonia leucobalia (Schlegel)
Dipsadomorphus multimagulatus (Boie)
Dipsadomorphus drapiezii (Boie)
Dipsadomorphus dendrophilus (Boie)
Dipsadomorphus nigriceps (Gthr.)
Dipsadomorphus jaspides (D. B.)
Dipsadomorphus cynodon (Boie)
Psammodynastes pulverulentus (Boie)
Dryophis xanthozona Boie
Dryophis prasinus Boie
Dryophis mycterizans (L.)
Dryophiops rubescens (Gray)
? Dipsadoïdes decipiens Annand.
Chrysopelea ornata (Shaw)
Chrysopelea chrysochloara (Schlegel)
Platyrurus schistorhynchus Gthr.
Platyrurus laticaudatus (L.)
Platyrurus colubrinus (Schneider)
Aipysurus eurydixi (Gray)
Enhydrina valakadyn (Boie)
Thalassophis anomalus Schmidt
Thalassophis annandalei (Laidlaw)
Hydrus platurus (L.)
Hydrophis frontalis Jan
Hydrophis gracilis (Shaw)
Hydrophis fasciatus (Schneider)
Hydrophis viperinus (Schmidt)
Hydrophis polyodontus Jan
Hydrophis cyanocinctus Daudin
Hydrophis stokesi (Gray)
Enhydris hardwickei (Gray)
Bungarus fasciatus (Schneider)
Bungarus candidus (L.)
Bungarus flaviceps Reinh.
Naja tripudians Merr.
Naja bungarus Schlegel
Doliophis bivirgatus (Boie)
Doliophis intestinalis (Laur.)
Haplopetura boa (Boie)
Amblycephalus laevis Boie
Amblycephalus carinatus Boie
Agkistrodon rhodostoma (Boie)
Lachesis gramineus (Shaw)
Lachesis puniceus (Boie)

Madura.
Typhlops braminus (Daud.).
Hydrus platurus (L.)
Hydrophis gracilis (Shaw)

Paternoster Islands.
Hydrus platurus (L.)

Bali.
Dendrophis pictus (Gmel.)
Lycodon aulicus (L.)
Cerberus rhynchops (Schneider)
Dipsadomorphus cynodon (Boie)

Lombok.
Typhlops elberti Roux
Cylindrophis opisthorrhodus Boulenger
Polyodontophis geminatus (Boie)
Dendrophis pictus (Gmel.)
Coluber oxycephalus Boie
Coluber subradiatus Schlegel
Lycodon subcinctus Boie
Cerberus rhynchops (Schneider)
Psammodynastes pulverulentus (Boie)
Dryophis prasinus Boie
Naja tripudians Merr.
Lachesis gramineus (Shaw)
Sumbawa.

Python reticulatus (Schneider)
Dendrophis pictus (Gmel.)
Lycodon subcinctus Boie
Lycodon aulicus (L.)
Dryophis prasinus Boie
Naja tripudians Merr.
Lachesis gramineus (Shaw)

Sumba.

Typhlops braminus (Daud.)
Dendrelaphis inornatus Blgr.
Coluber subradiatus Schlegel
Lycodon aulicus (L.)
Cerberus rhynchos (Schneider)
Psammodynastes pulverulentus (Boie)
Hydrus platurus (L.)
Enhydris hardwickei (Gray)
Hydrophis brugmansi Boie
Lachesis gramineus (Shaw)

Savu

Liasis mackloti D. B.
Dendrelaphis inornatus Blgr.
Lycodon aulicus (L.)

Rotti.

Dendrophis pictus (Gmel.)
Coluber subradiatus Schlegel
Lycodon aulicus (L.)
Cerberus rhynchos (Schneider)
Platyrus colubrinus (Schneider)
Lachesis gramineus (Shaw)

Samao.

Liasis mackloti D. B.
Dendrelaphis inornatus Blgr.
Coluber subradiatus Schlegel
Stegonotus modestus (Schlegel)
Lachesis gramineus (Shaw)

Timor.

Typhlops braminus (Daud.)
Typhlops polygrammicus Schlegel
Liasis fuscus Peters
Liasis mackloti D. B.
Python reticulatus (Schneider)
Python amethystinus (Schneider)
Python timoriensis (Ptrs.)
Chersydrus granulatus (Schneider)
Dendrophis pictus (Gmel.)
?Coluber melanurus Schlegel
Coluber subradiatus Schlegel
Lycodon aulicus (L.)
Brachyorrhus albus (L.)
Cerberus rhynchops (Schneider)
Fordonia leucobalia (Schlegel)
Cantoria violacea Girard
Platurus laticaudatus (L.)
Platurus colubrinus (Schneider)
Lachesis gramineus (Shaw)

Flores.
Typhlops braminus (Daud.)
Typhlops florensis Boulenger
Python reticulatus (Schneider)
Python timoriensis (Ptrs.)
Chersydrus granulatus (Schneider)
Dendrophis pictus (Gmel.)
Tropidonotus chrysargus Schlegel
Coluber subradiatus Schlegel
Lycodon florensis de Rooy
Lycodon aulicus (L.)
Cerberus rhynchops (Schneider)
Dipsadomorphus cynodon (Boie)
Psammodynastes pulverulentus (Boie)
Platurus schistorhynchus Gthr.
Platurus laticaudatus (L.)
Platurus colubrinus (Schneider)
Hydrus platurus (L.)
Enhydris hardwickei (Gray)
Naja tripudians Merr.
Lachesis gramineus (Shaw)

Solor.
Platurus colubrinus (Schneider)

Lomblem.
Typhlops braminus (Daud.)
Lycodon aulicus (L.)
Adonara.
Lachesis gramineus (Shaw)

Alor.
Dendrophis pictus (Gmel.)
Coluber subradiatus Schlegel
Lycodon aulicus (L.)
Naja tripudians Merr.
Lachesis gramineus (Shaw)

Pulu Kambing in Lobetobi Strait.
Platurus schistorhynchus Gthr.

Wetar.
Cylindrophis boulengeri Roux
Lycodon aulicus (L.)
Cerberus rhynchops (Schneider)

Roma.
Lachesis gramineus (Shaw)

Damma Island.
Simotes forbesi Blgr.

Timor Laut.
Python reticulatus (Schneider)
Python amethystinus (Schneider)
Enygrus carinatus (Schneider)
Dendrophis calligaster Gthr.
Simotes forbesi Blgr.
Chrysopelea rhodopleuron Boie
Acanthophis antarcticus (Shaw)

Djampea Island.
Cylindrophis isolepis Boulenger
Lachesis fasciatus Blgr.

Kalao Island.
Lycodon aulicus (L.)

Saleyer.
Typhlops braminus (Daud.)
Lycodon aulicus (L.)

Indo-australian reptiles II.
Buton.
Typhlops braminus (Daud.)
Python reticulatus (Schneider)
Dendrophis pictus (Gmel.)
Coluber erythrus (D. B.)
Dryophis prasinus Boie

Celebes.
Typhlops braminus (Daud.)
Typhlops conradi Peters
Typhlops ater Schlegel
Python reticulatus (Schneider)
Python molurus (L.)
Enygrus carinatus (Schneider)
Cylindrophis rufus (Laur.)
Xenopeltis unicolor Reinw.
Chersydrus granulatus (Schneider)
Dendrophis pictus (Gmel.)
Dendrelaphis terrificus (Peters)
Tropidonotus piscator (Schneider)
Tropidonotus celebicus (P. D.)
Tropidonotus sarasinorum Blgr.
Tropidonotus trianguligerus Boie
Tropidonotus chrysargoides Gthr.
Tropidonotus vittatus (L.)
Tropidonotus subminiatus Schlegel
Tropidonotus chrysargus Schlegel
?Macropisthodon rhodomelas (Boic)
Zamenis dipsas (Schlegel)
Coluber melanurus Schlegel
Coluber erythrus (D. B.)
Coluber janseni (Bleeker)
Coluber oxycephalus Boie
Lycodon stormi Bottger
Lycodon aulicus (L.)
Simotes octolineatus (Schneider)
Oligodon waandersi (Bleeker)
Agrophis sarasinorum F. Müller
Rhabdophidium forsteni (D. B.)
Pseudorhabdiium longiceps (Cantor)
Calamaria lumbricoidea Boic
Calamaria nuchalis Blgr.
Calamaria gracilis Blgr.
Calamaria acutirostris Blgr.
Calamaria curta Blgr.
Calamaria mülleri Blgr.
Calamaria virgulata Boie
Calamaria collaris Blgr.
Calamaria linnaei Boie
Hypsirhina plumbea (Boie)
Hypsirhina enhydris (Schneider)
Hypsirhina matannensis Blgr.
Homalopsis buccata (L.)
Cerberus rhynchops (Schneider)
Dipsadomorphus multimaculatus (Boie)
Dipsadomorphus dundrophilus (Boie)
Dipsadomorphus irregularis (Merr.)
Dipsadomorphus flavescens (D. B.)
Psammodynastes pulverulentus (Boie)
Dryophis prasinus Boie
Chrysopelea ornata (Shaw)
Platurus colubrinus (Schneider)
Hydrus platurus (L.)
Hydophis brugmansi Boie
Enhydris hardwickei (Gray)
Bungarus candidus (L.)
Naja bungarus Schlegel
Doliophis intestinalis (Laur.)
Lachesis wagleri (Boie)

**Togian Islands.**

Psammodynastes pulverulentus (Boie)

**Sangir Islands.**

Typhlops olivaceus (Gray)
Enygrus carinatus (Schneider)
Cylindrophis rufus (Laur.)
Dendrophis pictus (Gmel.)
Tropidonotus trianguligerus Boie
Tropidonotus chryšargoides Gthr.
Cerberus rhynchops (Schneider)
Dipsadomorphus irregularis (Merr.)
Psammodynastes pulverulentus (Boie)
Dryophis prasinus Boie
Chrysopelea rhodopleuron Boie
Lachesis wagleri (Boie)

**Salibabu Islands.**

Enygrus carinatus (Schneider)
Buru.
Stegonotus modestus (Schlegel)
Brachyorrhus albus (L.)
Cerberus rhynchos (Schneider)
Dipsadomorphus irregularis (Merr.)
Chrysopelea rhodopleuron Boie
Platurus colubrinus (Schneider)

Ambon.
Typhlops braminus (Daud.)
Python reticulatus (Schneider)
Python amethystinus (Schneider)
Enygrus carinatus (Schneider)
Chersydrus granulatus (Schneider)
Dendrophis pictus (Gmel.)
Stegonotus modestus (Schlegel)
Stegonotus batjanensis (Gthr.)
?Oligodon bitorquatus Boie
Brachyorrhus albus (L.)
Cerberus rhynchos (Schneider)
Fordonia leucobalia (Schlegel)
Dipsadomorphus drapiezii (Boie)
Dipsadomorphus irregularis (Merr.)
Chrysopelea rhodopleuron Boie
Platurus schistorhynchus Gthr.
Platurus colubrinus (Schneider)
Hydrus platurus (L.)

Haruku.
Python amethystinus (Schneider)
Enygrus carinatus (Schneider)
Brachyorrhus albus (L.)
Acanthophis antarcticus (Shaw)

Saparua.
Python amethystinus (Schneider)
Enygrus carinatus (Schneider)
Cerberus rhynchos (Schneider)

Ceram.
Typhlops braminus (Daud.)
Typhlops multilineatus Schlegel
Python reticulatus (Schneider)
Python amethystinus (Schneider)
Enygrus carinatus (Schneider)
Dendrophis pictus (Gmel.)
Tropidonotus elongatus Jan
Stegonotus modestus (Schlegel)
Brachyorrhus albus (L.)
Calamaria ceramensis de Rooy
Cerberus rhynchops (Schneider)
Fordonia lencobalia (Schlegel)
Dipsadomorphus irregularis (Merr.)
Chrysopelea rhodopleuron Boie
Pseudelaps mülleri (Schlegel)
Acanthophis antarcticus (Shaw)

Banda.
Python reticulatus (Schneider)
Python amethystinus (Schneider)
Enygrus carinatus (Schneider)
Brachyorrhus albus (L.)
Chrysopelea rhodopleuron Boie

Goram.
Enygrus carinatus (Schneider)
Enygrus asper (Gthr.)
Cerberus rhynchops (Schneider)
Dipsadomorphus irregularis (Merr.)

Obi.
Python reticulatus (Schneider)
Acanthophis antarcticus (Shaw)

Batjan.
Typhlops flaviventer Peters
Python reticulatus (Schneider)
Python amethystinus (Schneider)
Enygrus carinatus (Schneider)
Cylindrophis rufus (Laur.)
Dendrelaphis modestus Blgr.
Tropidonotus truncatus (Peters)
Tropidonotus halmahericus Böttger
Stegonotus batjanensis (Gthr.)
Brachyorrhus albus (L.)
Calamorhabdium kükenthali Böttger
Cerberus rhynchops (Schneider)
Dipsadomorphus irregularis (Merr.)
Chrysopelea rhodopleuron Boie
Ternate.

Typhlops braminus (Daud.)
Typhlops flaviventer Peters
Typhlops ater Schlegel
Python reticulatus (Schneider)
Enygrus carinatus (Schneider)
Chersydrus granulatus (Schneider)
Dendrophis pictus (Gmel.)
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Calamaria vermiformis D. B.
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Halmahera.

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Dendrophis calligaster Gthr.
Dendrelaphis modestus Blgr.
Tropidonotus truncatus (Peters)
Tropidonotus punctiventris Böttger
Tropidonotus halmahericus Böttger
Zamenis dipsas (Schlegel)
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Platurus laticaudatus (L.)
Platurus colubrinus (Schneider)
Morotai.
Stegonotus batjanensis (Gthr.)

Waigeu.
Enygrus asper (Gthr.)
Dendrophis calligaster Gthr.
Dendrophis lineolatus H. J.
Tropidonotus picturatus Schlegel
Hydrophis brugmannsi Boie

Batanta.
Enygrus carinatus (Schneider)
Enygrus asper (Gthr.)
Dendrophis calligaster Gthr.
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Salawatti.
Liasis albertisi Ptrs. & Doria
Python amethystinus (Schneider)
Enygrus carinatus (Schneider)
Enygrus asper (Gthr.)
Dendrophis calligaster Gthr.
Stegonotus modestus (Schlegel)
Dipsadomorphus irregularis (Merr.)
Platurus colubrinus (Schneider)
Pseudelaps mülleri (Schlegel)

Misol.
Typhlops olivaceus (Gray)
Python amethystinus (Schneider)
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Kur.
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Aru Islands.
Typhlops braminus (Daud.)
Python amethystinus (Schneider)
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Dendrophis calligaster Gthr.
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Hyrophis fasciatus (Schneider)
Hyrophis mertoni (Roux)
Hyrophis ornatus (Gray)
Hyrophis cyanocinctus Daudin
Hyrophis stokesi (Gray)
Glyphodon tristis Gthr.
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Typhlops depressiceps Sternfeld
Typhlops bipartitus Sauvage
Typhlops leucoproctus Boulenger
Typhlops flaviventer Peters
Typhlops inornatus Boulenger
Nardoa boa (Schlegel)
Liasis fuscus Peters
Liasis tornieri Werner
Liasis albertisi Ptrs. & Doria
Liasis papuanus Ptrs. & Doria
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Python spilotes (Lacépède)
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Chersydrus granulatus (Schneider)
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Dendrophis lorentzi Lidth
Dendrophis punctulatus (Gray)
Dendrophis gastrostictus Blgr.
Dendrophis lineolatus H. J.
Dendrophis meeki Blgr.
Dendrophis nouhuysi Lidth
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p. 57. *Gecko verticillatus* Laur., add to the habitat Java: Salatiga!.
p. 64. Sub E. read vertebral instead of ventral.
p. 72. *Draco volans* L., add to the habitat Java: Salatiga!.
p. 73. *Draco cornutus* Gthr. add to the habitat Borneo: Lio Matu on Baram river.
p. 122. *Calotes cristatellus* (Kuhl), add to the habitat Java: Salatiga!, and N. W. New Guinea.
p. 147. *Varanus salvator* (Laur.), add to the habitat: Krakatau-W. off Java.
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p. 284. *Dibamus novae-guineae* D. B., add to the habitat Sumatra: Deli!.
p. 309. *Chelonia mydas* (L.), add to the habitat: Simalur; Pulu Babi.
p. 310. *Chelonia imbricata* (L.), add to the habitat: Simalur; Pulu Babi.
p. 338. *Crocodilus porosus* Schn., add to the habitat Pulu Babi; Banka; Sulu Islands.
p. 339. *Crocodilus siamensis* Schn., add to the habitat Java: Tjilatjap and Panarukan. Length about 2.50 M.
p. 340. Add to the list of Simalur: *Chelonia mydas* (L.); *Chelonia imbricata* (L.)
p. 340. Add to the list of Pulu Babi: Chelonia mydas (L.);
Chelonia imbricata (L.); Crocodilus porosus Schn.
p. 344. Add to the list of Banka: Crocodilus porosus Schn.
p. 363. Add to the list of New Guinea: Calotes cristatellus (Kuhl).

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p. 20. Sub 4. read timoriensis instead of timorensis.
p. 75. Sub 17. read sarawacensis instead of saravacensis.
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