

## ON THE SPECIES OF *AMPHIDROMUS* FROM THE ISLAND OF KOMODO

by

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Among the mollucs collected during two expeditions of the Museum Zoologicum Bogoriense to the island of Komodo, Lesser Sunda Islands, Indonesia, in September - October, 1961 and July - August, 1962, I found three sets of distinct forms of *Amphidromus*, each consisting of 6, 36 and 5 specimens.

Until now the only *Amphidromus* recorded from Komodo was *Amphidromus poecilochrous jaeckeli* LAIDLAW, 1954. It was originally described as a subspecies of *A. contrarius*, but, as LAIDLAW & SOLEM (1961, p. 631) have shown, it must be classified as a subspecies of *A. poecilochrous*.

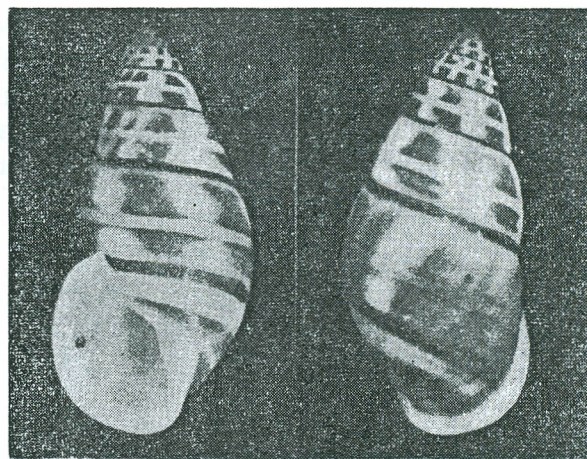


Fig. 1. *Amphidromus poecilochrous jaeckeli* LAIDLAW.

The subspecies *A. p. jaeckeli* is known from only four specimens, the holotype and one paratype being collected in West Flores (HALTENORTH & JAECKEL, 1940, as *A. contrarius floresi non floresi* BARTSCH, 1917) and two other specimens from Komodo (BUTOT, 1954).

The species is known in two colour modifications, the holotype being dark, with lighter spiral bands and blotches, more or less similar to typical

*A. poecilochrous*, the paratype being light-yellow with only two dark-violet spiral bands, one along the periphery, showing partly along the suture of the spire, and one below this, close to the aperture.

The two specimens from Komodo recorded by BUTOT are similar to the paratype; they possess an additional violet zone encircling the umbilicus.

In my opinion it is reasonable to reserve the name *A. p. jaeckeli* for the vividly coloured form (fig. 1). This subspecies is represented in the new material from Komodo by six shells. It is the first record from Komodo island. Measurements of these shells are:

Cat. nr.	Height.	Breadth.	Height of aperture.
6015-3	36,2 mm.	17,9 mm.	14,6 mm.
6015-1	33,8 "	18,4 "	14 "
6015-2	29,4 "	16 "	12,4 "
6015-4 (young shell)	22,9 "	13,1 "	11 "
6015-5 ( " " )	19,5 "	12,1 "	10,2 "
6039	— (apex broken)	20 "	15,4 "

Nr. 6039 collected on October 21/24, 1961.

Nrs. 6015-1, — 6015-5 collected on August 5, 1962.

For the yellow, sparingly coloured form, I now propose the name *Amphidromus poecilochrous candidus* nov. subsp. (fig. 2 - 3). It differs from *A. p. jaeckeli* in being almost plain light-yellow, with only two spiral bands of dark-violet colour, one at the periphery and one, wanting in some shells, below it. Some shells show two other indistinct sulphur yellow

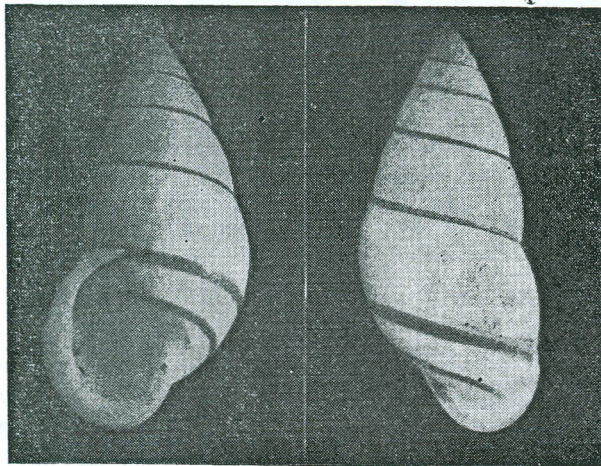


Fig. 2. *Amphidromus poecilochrous candidus* nov. subsp.  
Holotype. With two dark-violet spiral bands on the last whorl.

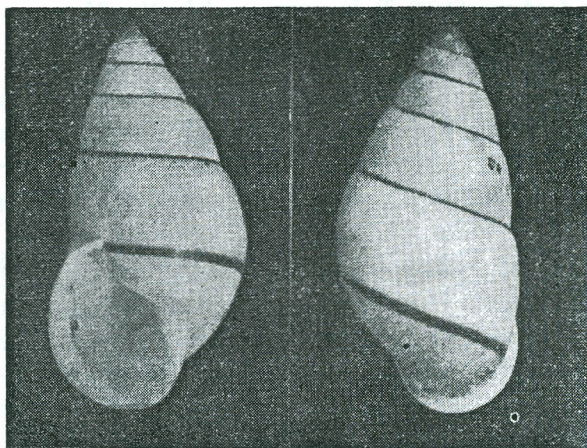


Fig. 3. *Amphidromus poecilochrous candidus* nov. subsp.  
With only one dark-violet spiral band on the last whorl.

bands, one above the periphery, which extends on the spire, and one between the dark-violet bands. The umbilical region has the same colour as the apex, reddish brown.

It is represented in the new material from Komodo by 36 shells, 12 of which are still immature. The dimensions of these shells are:

Cat. nr.	Height.	Breadth.	Height of aperture.
6013-6	39,3 mm.	19,4 mm.	15 mm.
6013-19	39 "	20 "	15,8 "
6013-13	39 "	17,3 "	15,8 "
6040	36,9 "	17,6 "	14,5 "
6013-21	35,3 "	17,1 "	14 "
6013-4	35,2 "	17,7 "	15,2 "
6013-3	35 "	17,8 "	15 "
6013-1	34,5 "	18,1 "	14,9 "
6013-17	34,4 "	17,9 "	14,9 "
6013-2	34,2 "	18 "	14,6 "
6013-11	34,2 "	17,8 "	14,7 "
6013-10	33,9 "	18,4 "	14,9 "
6013-15	33,4 "	16,4 "	14 "
6013-5	33,3 "	17,9 "	14 "
6013-22	33,3 "	17 "	13,5 "
6013-20	33 "	17,9 "	13,5 "
6013-12	32,3 "	16,7 "	12,9 "
6013-9	32 "	17 "	14 "
6013-18	31,9 "	16,7 "	13,7 "
6013-7	31,4 "	16,5 "	13,3 "
6013-23	31,1 "	16,1 "	12,4 "
6013-14	30,8 "	16,9 "	12,8 "
6013-8	29,2 "	17,2 "	12,5 "
6013-16	28,6 "	15,7 "	13 "

Nr. 6040 collected on October 21/24, 1961.

Nrs. 6013-1, — 6013-23 collected on August 5, 1962.

The holotype (cat.nr. 6013-6) is preserved in the Museum Zoologicum Bogoriense, Bogor, Java.

In addition to the shells mentioned above I found five specimens of quite different aspect. On the whole they recall *Amphidromus poecilochrous*, but there are differences in the shape and colour pattern. For these shells I propose the name *Amphidromus poecilochrous asmani* nov. subsp. (fig. 4).

Shell sinistral, thin, ovate-conical, narrowly umbilicate. Ground colour deep-yellow, fading to white on the spire. Surface shining, finely striated vertically. Whorls 6, convex. Last whorl rather inflated, about two third of the total length of the shell. The whorls of the spire are ornamented by three narrow brown, spiral bands, which fade away gradually on the penultimate and ultimate whorls. On the last whorl there is one broad, oblique, fles-coloured stripe, presumably a previous growth-arrest.

Suture well impressed, bordered by a narrow, reddish-brown or black-brown zone.

Aperture wide, semi-oval, light-violet interiorly. Peristome not continuous, yellowish, narrowly reflected, partly concealing the umbilicus. With a violet zone parallel to it just in the interior of the aperture. Columella margin violet.

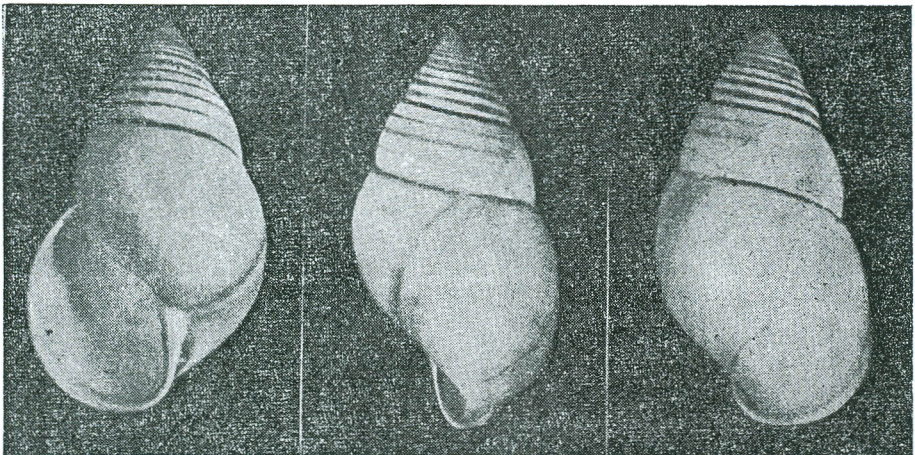


Fig. 4. *Amphidromus poecilochrous asmani* nov. subsp.  
Holotype. The centre figure showing the oblique, flesh-colored stripe.

In the semi-adult shells the peristome, columella and parietal margin are deep-violet. The last whorl has two broad reddish-brown, fading bands below the periphery. Peristome sharp. The dimensions are:

Cat. nr.	Height.	Breadth.	Height of aperture.
6016-1	38,7 mm.	21,1 mm.	20 mm.
6016-2 (young shell)	31 „	16,8 „	15,8 „
6016-3 ( „ „ )	29 „	15,5 „	15 „
6016-4 ( „ „ )	27 „	15 „	14 „
6017 ( „ „ )	25 „	15,2 „	14,7 „

Nrs. 6016-1, — 6016-4 collected on October 21/24, 1961.

Nr. 6017 collected on August 20, 1962.

The holotype (cat.nr. 6016-1) is preserved in the Museum Zoologicum Bogoriense, Bogor, Java.

*Aphidromus poecilochrous asmani*, has been named after Mr ASMAN, who collected the shells during the expeditions.

#### Acknowledgements.

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