

Camaena abbasi, a new species (Gastropoda: Camaenidae) from Indonesia

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ABSTRACT A new species of the genus *Camaena* Albers, 1850 is described from Popidolong, South East Peleng Island, East Sulawesi, Indonesia and is compared to four other species of this genus: *Camaena gabriella* f. *subhainensis* (Pilsbry, 1890); *Camaena gabriellae* var. *platytaenia* Dautzenberg & Fischer, 1908; *Camaena duporti* (Bavay & Dautzenberg, 1900); and *Camaena sakishimana* Kuroda, 1960. It is characterized by a slightly flat base with a concave umbilical area and not reflected outer lip.

KEYWORDS Gastropoda, Helicoidea, Camaenidae, *Camaena*, Popidolong, South East Peleng island, East Sulawesi, Indonesia, new taxon.

INTRODUCTION The genus *Camaena* Albers, 1850 belongs to the family Camaenidae and many species of this family are native to Indonesia. In July of 2008, a new camaenid was found that was not listed in the works by Dharma (2005), Parkinson *et al.* (1987), Abbott (1989) and Stanisic *et al.* (2010). It is here described as new to science.

Abbreviations:

ANSP Academy of Natural Sciences of
Drexel University, Philadelphia, USA
MNHN Muséum National d'Histoire Naturelle,
Paris, France
NNT Collection Dr Thach
RMNH Rotterdam Museum of Natural
History
JA Collection John Abbas
AL Aperture length
SH Shell height
SW Shell width

SYSTEMATICS

Class Gastropoda Cuvier, 1797
Superfamily Helicoidea Rafinesque, 1815
Family Camaenidae Pilsbry, 1895
Genus *Camaena* Albers, 1850
Type species: *Helix cicatricosa* Müller, 1774,
subsequent designation by Martens in Albers,
1860

Camaena abbasi n. sp.

Figures 1-8

Description:

Shell medium-sized for the genus (33-35mm in average adult width), heliciform, dextral, and longer in width than in height, 65.6% shell width, see Table 1 with measurements on five specimens. Spire with variable heights, sutures impressed. Body whorl moderately inflated, periphery with a narrow spiral keel. Sculpture consisting of numerous closely-spaced axial riblets. Aperture semilunate with a length 53.8% of the shell width, outer lip slightly thick, usually angulate and not reflected. Base slightly flat and weakly sculptured, umbilicus small

open but partly covered by columella. Color variable (yellowish, whitish, brown or black) with white spiral band at suture and periphery.

Type material:

Holotype 35.3 mm wide in ANSP (Figs.1,2). Paratypes: all from type locality, Paratype 1: 34.6 mm wide in MNHN (Fig.3,4), Paratype 2: 34.7 mm wide in JA (Fig.6,7), Paratype 3: 32.9 mm wide in NNT (Fig.5), Paratype 4: 34.6 mm wide in JA (No 8).

Type locality:

Popidolong, South East Peleng island, East Sulawesi, Indonesia.

Range and habitat:

The type specimens were collected on vine thickets and known only from type locality.

Etymology:

This new species is named in honor of Mr. John Abbas of Hawaii (USA) for providing the type material that he collected on Peleng Island.

DISCUSSION

- *Camaena abbasi* n.sp. is close to *Camaena gabriella* f. *subhainensis* (Pilsbry, 1890) (Figure 12) but differing in less inflated whorls, smaller adult size, slightly flat base, not reflected outer lip and presence of a narrow keel at the periphery.

- *Camaena abbasi* differs mainly from *Camaena gabriellae* var. *platyaenia* Dautzenberg & Fisher, 1908 (Figures 9, 11a) in less swollen body whorl, smaller adult size, smoother exterior surface, slightly flat base, not reflected outer lip, presence of a narrow spiral keel and white (not dark brown) spiral band at the periphery.

- *Camaena abbasi* differs mainly from *Camaena duporti* (Bavay & Dautzenberg, 1900) (Figure 11b) in much smaller umbilicus, less inflated body whorl, not reflected and much thinner outer lip and presence of a narrow spiral keel at the periphery.

Table 1. Mean SH/SW and AL/SW of *Camaena abbasi* n.sp.

| Specimen | SW (mm) | SH (mm) | SH/SW | Mean SH/SW | AL (mm) | AL/SW | Mean AL/SW |
|----------|---------|---------|-------|------------------|---------|-------|------------------|
| 1 | 35.3 | 23.0 | 0.652 | 0.656 (65.6%) | 18.4 | 0.521 | 0.538 (53.8%) |
| 2 | 34.6 | 21.0 | 0.607 | | 19.3 | 0.558 | |
| 3 | 34.7 | 21.3 | 0.614 | | 18.9 | 0.545 | |
| 4 | 32.9 | 22.0 | 0.669 | | 17.6 | 0.535 | |
| 5 | 34.6 | 25.6 | 0.740 | | 18.3 | 0.529 | |

• *Camaena abbasi* differs mainly from *Camaena sakishimana* Kuroda, 1960 (Figure 10) in larger adult size, slightly flat base, much smaller umbilicus, not sharply angulate periphery, not calloused outer lip and an opaque aperture.

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REFERENCES

Abbott, R.T. 1989. Compendium of landshells. American Malacologists Inc., Florida, USA, 240 pp.

Dharma, B. 2005. Recent & Fossil Shells of Indonesia. ConchBooks, Hackenheim, Germany, 432pp.

Parkinson, B., J. Hemmen & K. Groh. 1987. Tropical land shells of the world. Verlag Christa Hemmen, Wiesbaden, Germany, 279 pp.

Stanisic, J., M. Shea, D. Potter & O. Griffiths. 2010. Australian Land Snails, Volume 1. Bioculture Press, Mauritius, 591pp.

Website of Bishogai Data Base

http://bigai.world.coocan.jp/pic_book/


Website of Rotterdam Museum of Natural History <http://www.nmr-pics.nl/>

Website of Philippe & Guido Poppe <http://www.conchology.be/>



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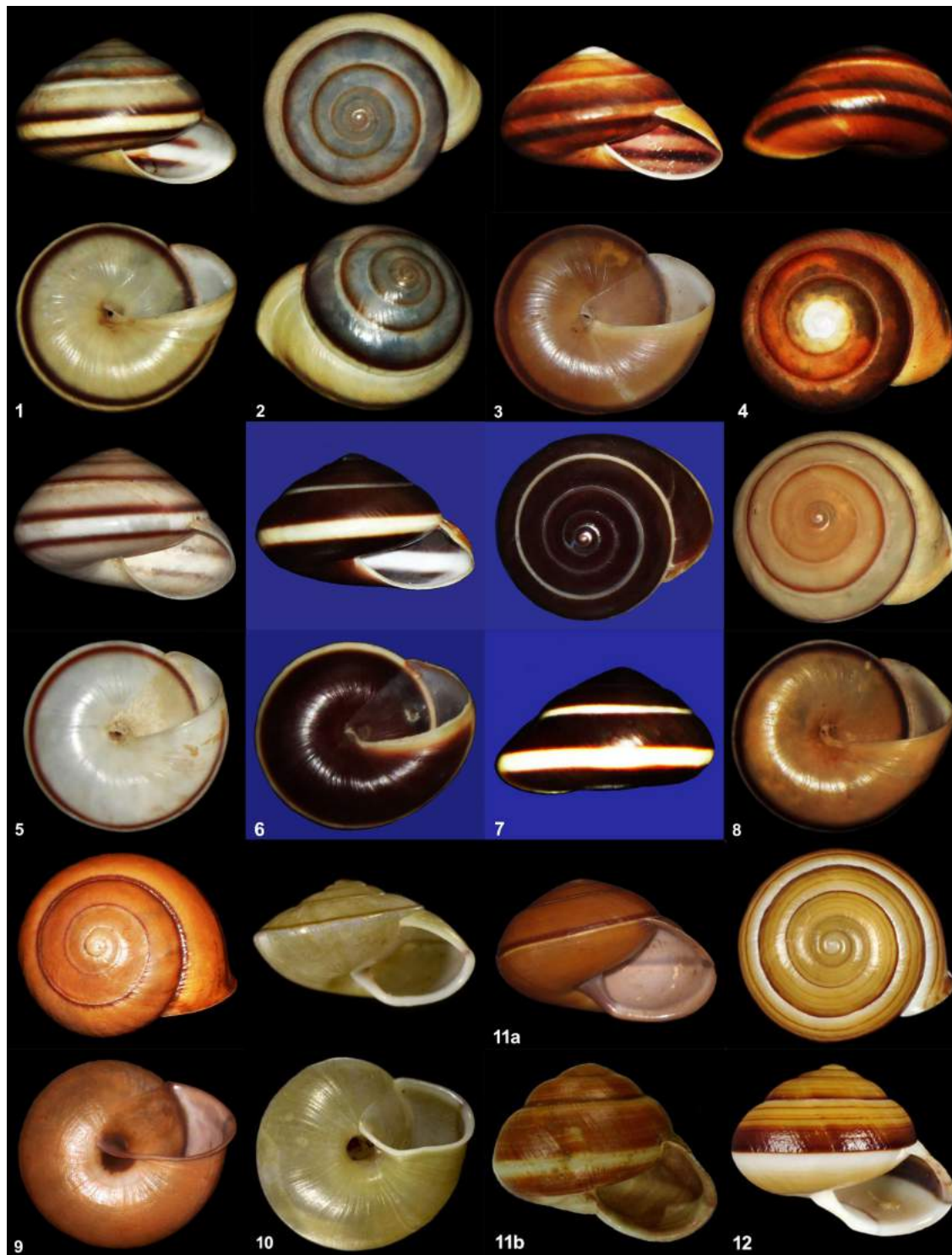
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Figures 1-8: *Camaena abbasi* n.sp., Peleng Island, Indonesia - **1,2:** Holotype 35.3 mm, ANSP- **3,4,:** Paratype 1: 34.6 mm, MNHN- **5:** Paratype 3, 32.9 mm, NNT- **6,7:** Paratype 2: 34.7mm, JA- **8:** Paratype 4: 34.6mm, JA- **9,11a:** *Camaena gabriellae* var. *platyaenia* Dautzenberg & Fisher, 1908, 37.5 mm- **10:** *Camaena sakishimana* Kuroda, 1960, 17mm photo of Bishogai Data Base- **11b:** *Camaena duporti* Bavay&Dautzenberg, 1908, 52 mm, photo of Rotterdam Museum of Natural History- **12:** *Camaena gabriella* f. *subhainensis* (Pilsbry, 1890) 36.9 mm, photo of P. & G. Poppe, 2014.