

Camaena chuongi, a new species (Gastropoda: Camaenidae) from Vietnam

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ABSTRACT A new species of genus *Camaena* Albers, 1850 is described from Tân Lạc, Hòa Bình, Vietnam and compared to two other species and a form of this genus: *Camaena gabriellae* Dautzenberg & d'hammonville, 1887, *Camaena hainenensis* (H. Adams, 1870) and *Camaena gabriellae* f. *subhainenensis* (Pilsbry, 1890). It is characterized by slightly flat base and very few spiral bands (only one band at periphery and another band along suture of each whorl) on pure white background color.

KEYWORDS Gastropoda, Helicoidea, Camaenidae, *Camaena*, Tân Lạc, Hòa Bình, Vietnam, new taxon.

INTRODUCTION: The genus *Camaena* Albers, 1850 belongs to the family Camaenidae and has many species collected in Vietnam. In February 2016, a hitherto unknown camaenid was found. It was not listed in the works by Parkinson, Hemmen & Groh (1987), Abbott (1989), Dharma (2005), Stanisic, Shea, Potter & Griffiths (2010), Schileyko (2011) or Thach (2005, 2007, 2012, 2016). 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
AW	Aperture Width
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 chuongi n. sp.
Figures 1-8

Description:

Shell medium-sized for the genus (34.8-40.4 mm in average adult width) conic-heliciform, wider than high with shell height 79.6% of shell width (*see* Table 1 with measurements on seven specimens). Spire tall, sutures adpressed. Body whorl moderately inflated, periphery with a narrow spiral band. Sculpture consisting of numerous fine closely-spaced axial riblets becoming stronger when approaching body whorl. Aperture semicircular with width 54.1% of shell width (*see* Table 1), outer lip thin, slightly reflected. Base slightly flat and weakly sculptured, umbilicus deep and open but partly covered by reflected columella. Color pure white with dark brown spiral band at periphery and along suture of each whorl.

Table 1. Mean SH/SW and AW/SW of *Camaena chuongi* n.sp.

Specimen:	SW (mm)	SH (mm)	SH/SW	Mean SH/SW	AW (mm)	AW/SW	Mean AW/SW
1	36.6	28.2	0.77	0.796	19.0	0.52	0.541
2	37.8	31.0	0.82		19.0	0.50	
3	34.8	29.7	0.85		18.3	0.53	
4	40.1	33.4	0.83		22.5	0.56	
5	35.7	28.5	0.79		21.0	0.59	
6	34.0	25.6	0.75		18.0	0.53	
7	40.4	30.8	0.76		22.7	0.56	

Type material: Holotype 36.6 mm wide in ANSP (Figures 1, 2b). Paratypes: all from type locality, Paratype 1: 37.8 mm wide in MNHN (Figure 3); Paratype 2: 34.8 mm wide in NNT (Figure 2a, 4b); Paratype 3: 40.1 mm wide in NNT (Figure 4a, 7) and Paratype 6: 40.4 mm (Figure 6) in NNT; and Paratypes 4 at 35.7 mm and 5 at 34.0 mm (not illustrated).

Type locality: Tân Lạc District, Hòa Bình Province, Vietnam.

Habitat: The type specimens were collected around trees.

Etymology: The new species is named in honor of Mr. Nguyễn Ngọc Chương, the author's brother for his help in this scientific study.

DISCUSSION:

- *Camaena chuongi* n.sp. is close to *Camaena gabriella* f. *subhainensis* (Pilsbry, 1890) (Fig. 11b, 12) but differing in less inflated whorls,

flatter base, less numerous spiral bands, white umbilical area and white background color.

- *Camaena gabriella* Dautzenberg & d'hammonville, 1887 (Figures 9,10) differs mainly from *Camaena chuongi* in having a more inflated base and the absence of a pure white background color.

- *Camaena hainensis* (H.Adams, 1870) (Figure 11a) differs mainly from *Camaena chuongi* in very swollen body whorl, much wider aperture, numerous spiral bands and the absence of a white background color.

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Figures 1-8: *Camaena chuongi* n.sp., Hòa Bình, Vietnam- **1, 2b:** Holotype 36.6 mm, ANSP- **2a:** Paratype 2: 34.8 mm wide, NNT- **3:** Paratype 1, 37.8 mm wide, MNHN- **4a:** Paratype 3, 40.1 mm wide, NNT- **4b:** Paratype 2, NNT- **5:** Live animal- **6:** Paratype 6, 40.4 mm- **7:** Paratype 3- **8:** Live animal- **9,10:** *Camaena gabriellae* Dautzenberg & d'hammonville, 1887, photo of Paris Museum of Natural History for comparison- **11a:** *Camaena hainenensis* (H.Adams, 1870) 40 mm, photo of T. Abbott, 1989 for comparison- **11b:** *Camaena gabriella* f. *subhainenensis* (Pilsbry, 1890) 34.2 mm for comparison- **12:** *Camaena gabriella* f. *subhainenensis* 36.9 mm, photo of P. & G. Poppe, 2014 for comparison.

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