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## *Camaena onae*, a new species (Gastropoda: Camaenidae) from Vietnam

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**Keywords:** GASTROPODA, HELICOIDEA, CAMAENIDAE, *Camaena*, Tân Lạc, Hòa Bình, Vietnam, new taxon.

**Abstract:** A new species of *Camaena* Albers, 1850 is described from Tân Lạc District, Hòa Bình Province, Vietnam and compared to five other species of this genus: *Camaena duporti* (Bavay & Dautzenberg 1908), *Camaena massiei* (Morlet, 1891), *Camaena gabriella* (Dautzenberg & d'Hammonville, 1887), *Camaena lemeslei* (Morlet, 1891) and *Camaena vayssierei* (Bavay & Dautzenberg 1908). It is characterised by a dark purple columella, a rounded periphery, a widely open umbilicus and a purplish-brown colour with many spiral bands of various widths.

**Introduction:** The genus *Camaena* Albers, 1850 belongs to the family **Camaenidae** and has many species collected in Vietnam. In November 2015, a hitherto unknown camaenid was found. It was not listed in the works by Parkinson, Hemmen & Groh (1987), Abbott (1989), Dharma (2005), Stanisc, Shea, Potter & Griffiths (2010), Schileyko (2011) and Thach (2005, 2007, 2012, 2016). It is therefore hereby 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  
**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 onae*** sp. nov.  
Figs 1-8

**Type material:** **Holotype** MNHN (Figs 1-2), SW 42.2 mm. **Paratype 1:** ANSP (Fig. 3), SW 41 mm; **Paratype 2:** NNT (Figs 4, 8a), SW 42 mm; **Paratype 3:** NNT (Fig. 7), SW 45.4 mm; **Paratype 4:** NNT (Fig. 5), SW 39.8 mm; **Paratype 5:** NNT (Fig. 6a), SW 42.4 mm; **Paratype 6:** NNT (Figs 6b, 8b), SW 37.6 mm; **Paratype 7:** NNT (not illustrated) SW 45.1 mm.  
All Paratypes from type locality

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

**Habitat:** The type specimens were collected on the ground around trees.

**Description:** Shell medium-sized for the genus (40-45 mm in average adult width), trochoidally globose with shell height 66.4% of shell width (see Table 1 with measurements of eight specimens). Spire low and dome-shaped, sutures deep. Body whorl moderately inflated and ornamented with many spiral bands of various widths, periphery rounded. Sculpture consisting of numerous close-spaced axial riblets. Aperture wide with external pattern visible within and occupying 51.9% of shell width (Table 1), outer lip moderately thick and reflected. Base convex with numerous spiral bands. Umbilicus deep, widely open, columella dark purple.

Colour white with whitish early whors and purplish-brown (sometimes reddish-brown) spiral bands.

	SW mm	SH mm	SH/ SW	Mean SH/ SW	AL mm	AL/ SW	Mean AL/ SW
1	42.2	26.7	0.63	0.664	22.3	0.53	0.519
2	41.0	27.4	0.67		21.0	0.51	
3	42.0	26.7	0.64		21.7	0.52	
4	45.4	29.8	0.66		22.6	0.50	
5	39.8	26.5	0.67		20.9	0.53	
6	42.4	29.8	0.70		22.1	0.52	
7	37.6	24.8	0.66		18.7	0.50	
8	45.1	30.5	0.68		24.3	0.54	

**Table 1:** SH/SW and AL/SW of *Camaena onae*

### Comparison:

*Camaena onae* sp.nov. is close to *Camaena duporti* (Bavay & Dautzenberg, 1908) (Figs. 9a, 10), but the body whorl is lower, the spire less inflated and the columella is dark purple (not white).

*Camaena massiei* (Morlet, 1891) (Fig. 9b) mainly differs from *Camaena onae* in having a more swollen body whorl, a stronger axial sculpture, a white (not dark purple) columella and the aperture is more circular in outline.

*Camaena gabriellae gabriellae* (Dautzenberg & d'Hamonville, 1887) (Fig. 11) mainly differs from *Camaena onae* in being smaller in adult size, a white (not dark purple) columella, a more inflated spire and the external pattern is not visible within aperture.

*Camaena lemeslei* (Morlet, 1891) (Fig. 12a) mainly differs from *Camaena onae* in its much smaller adult size, more swollen body whorl, lower spire, more rounded aperture and external pattern not visible within the aperture.

*Camaena vayssierei* (Bavay & Dautzenberg, 1908) (Fig. 12b) mainly differs from *Camaena onae* in the presence of a sharp, narrow spiral keel at the periphery, a conical (not dome-shaped) spire, a smaller adult size, an angulate outer lip, a closed (not widely open) umbilicus and the lack of numerous spiral bands.

**Etymology:** Named in honour of Mrs Tạ Thị Ôn, the author's mother, for her continuous encouragement in his scientific study.

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## PLATE

**1-8:** *Camaena onae* sp.nov.

Tân Lạc District, Hòa Bình Province, Vietnam

**1-2:** Holotype (42.2mm) in MNHN

**3:** Paratype 1 (41mm) in ANSP

**4:** Paratype 2 (42mm) in NNT

**5:** Paratype 4 (39.8mm) in NNT

**6a:** Paratype 5 (42.4mm) in NNT

**6b:** Paratype 6 (37.6mm) in NNT

**7:** Paratype 3 (45.4mm) in NNT

**8a:** Paratype 2 (42mm) in NNT

**8b:** Paratype 6 (37.6mm) in NNT

**9a:** *Camaena duporti* (Bavay & Dautzenberg, 1908)

photo of Rotterdam Museum of Natural History

**9b:** *Camaena massiei* (Morlet, 1891)

photo of Rotterdam Museum of Natural History

**10:** *Camaena duporti* (Bavay & Dautzenberg, 1908)

photo of Paris Museum of Natural History

**11:** *Camaena gabriellae gabriellae* (Dautzenberg & d'Hammonville, 1887)

photo of Paris Museum of Natural History

**12a:** *Camaena lemeslei* (Morlet, 1891)

Photo of Claudio Galli

**12b:** *Camaena vayssierei* (Bavay & Dautzenberg 1908)

photo of Paris Museum of Natural History

