

## A new *Amphidromus* (Gastropoda: Camaenidae) from Vietnam

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**Abstract:** A new species belonging to the subgenus *Syndromus* Pilsbry, 1900 within the genus *Amphidromus* Albers, 1850 is described from Đôn Dương, Lâm Đồng province, southern Vietnam and compared with *Amphidromus* (*Syndromus*) *pictus* Fulton, 1896, *Amphidromus* (*Syndromus*) *sinistralis* (Reeve, 1849), *Amphidromus* (*Syndromus*) *quadrasi everetti* Fulton, 1896, *Amphidromus* (*Syndromus*) *columellaris* Möllendorff, 1892, *Amphidromus* (*Syndromus*) *areolatus* (Pfeiffer, 1861), *Amphidromus* (*Syndromus*) *xiengensis* Morelet, 1891 and *Amphidromus* (*Syndromus*) *wetaranus rollei* Laidlaw & Solem, 1961.

**Introduction:** *Amphidromus* is a major genus within the family **Camaenidae** with many species collected in Vietnam. In the middle of 2012, another species of this genus was collected. In this article, it is described as new to science.

### Abbreviations:

KBIN	Koninklijk Belgisch Instituut voor Natuurwetenschappen, Brussels, Belgium (Royal Belgian Institute for Natural Sciences)
ANSP	Academy of Natural Sciences Philadelphia, USA
NHMUK	Natural History Museum London, England

**Systematics:****Class GASTROPODA** Cuvier, 1797**Superfamily HELICOIDEA** Rafinesque, 1815**Family CAMAENIDAE** Pilsbry, 1895**Subfamily Camaeninae** Pilsbry 1895**Genus *Amphidromus*** Albers, 1850Type species: *Helix perversus* Linnaeus, 1758 (by subsequent designation, Martens, 1896)Subgenus *Syndromus* Pilsbry in Tryon & Pilsbry, 1900Type species: *Helix contrarius* Müller, 1774 (by subsequent designation, Zilch, 1960)***Amphidromus (Syndromus) huberi*** sp. nov.

Figs 1-8

2012 *Amphidromus pictus* - Thach, 2012**Type material:** **Holotype** KBIN, 33.9 mm. **Paratype 1:** ANSP, 33.8 mm; **Paratype 2:** coll. F. Huber, 35.7 mm; **Paratype 3:** coll. N. N.Thach, 39.8 mm; **Paratype 4:** coll. F. Huber, 34.0 mm.**Type locality:** northeast of Đon Dương area (Lâm Đồng Province), far from village and the National Road Nr 27.**Description:** Shell medium-sized for the genus: average length 33-38 mm, occasionally reaching 39.8 mm. Only known from sinistral specimens, thin and elongate-tapering with 6.5 whorls and blunt apex. Spire moderately long, sutures slightly constricted and shallow. Outer surface smooth, shining and ornamented with widely-spaced broad axial stripes that are bisected by fine lines on spire whorls, numerous axial lines on final whorl and two spiral stripes surrounding the base. Shell width is about 50 % of shell length, juvenile specimens are shorter and more swollen. Aperture sublunate, about 39% of shell length, with external pattern visible within, outer lip thin and black. Colour lemon-yellow with many dark blue axial lines and two dark blue spiral bands at base of final whorl. On the spire, many dark brown (or sometimes dark blue) stripes are bisected by whitish lines. Columellar area reddish brown, apex pink.

**Range and habitat:** Along the border of Lâm Đồng & Ninh Thuan Provinces to the border of Ninh Thuan and Khanh Hoa Provinces, southern Vietnam. The specimens were found around trees.

**Comparison:**

*A. (S.) huberi* sp. nov. differs from *A. (S.) pictus* Fulton, 1896 by the absence of fine striae, the pink apex, the black (not white) outer lip, the reddish brown (not white) columella and by the presence of bisected axial stripes on the spire whorls.

*A. (S.) huberi* sp. nov. differs from *A. (S.) sinistralis* Reeve, 1849 by the presence of spiral bands around the base, the pink apex, the black (not white) outer lip and the presence of bisected axial stripes at spire whorls.

*A. (S.) huberi* sp. nov. differs from *A. (S.) quadrasi everetti* Fulton, 1896 by the yellow (not chocolate-coloured) background, the pink (not white) apex, the black (not reddish brown) outer lip and the presence of bisected axial stripes on the spire whorls.

*A. (S.) huberi* sp. nov. differs from *A. (S.) columellaris* Möllendorff, 1892 by the pink apex (not dark brown or purple), the black (not white) outer lip, the reddish brown (not white) columella, the lack of a spiral line in the middle of each whorl and the presence of bisected axial stripes at spire whorls.

Some *A. (S.) areolatus* (Pfeiffer, 1861) and *A. (S.) xiengensis* Morelet, 1891 from northern Thailand show a similar pattern on the base, but differ by the pattern on the spire consisting of fine interrupted spiral lines (rather than axial flames), the pale apex and the white apertural lip.

*A. (S.) wetaranus rollei* Laidlaw & Solem, 1961 from east Indonesia, is much similar in pattern, especially at the base, but differs by the pale purplish apex (rather than red) and the axial stripes, which are broader and bisected.

**Etymology:** This new species is named in honour of Frank Huber from Austria for his enthusiasm in collecting terrestrial snails from Vietnam.

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## Plate

**1-8: *Amphidromus (Syndromus) huberi* sp. nov.** Đon Dương area, Lâm Đồng Province, South Vietnam

**1-2:** Holotype (33.9 mm) in KBIN

**3:** Paratype 1 (33.8 mm) in ANSP

**4:** Paratype 2 (35.7 mm) in collection F. Huber. Characteristic pattern

**5:** Paratype 3 (39.8 mm) in collection N. N.Thach

**6:** Paratype 4 (34.0 mm) in collection F. Huber

**7-8:** Juvenile specimen (20.8mm)

**9: *Amphidromus (Syndromus) pictus* Fulton, 1896**

(Photo NHM London)

**10: *Amphidromus (Syndromus) sinistralis* (Reeve, 1849)**

(Photo Thach, 2012)

**11: *Amphidromus (Syndromus) quadrasi everetti* Fulton, 1896**

(after Abbott, 1989)

**12: *Amphidromus (Syndromus) columellaris* Möllendorff, 1892**

(Photo: Guido T. Poppe, 2012)

