

***Amphidromus thachi*, a new species (Gastropoda: Camaenidae) from Vietnam**

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***Amphidromus thachi* sp. nov.**
Figs 1-8

Abstract: A new *Amphidromus* Albers, 1850 is described from Nha Trang outskirts, Cam Lâm District, Khánh Hòa Province, central Vietnam and compared with *Amphidromus bulowi* Fruhstorfer, 1905, *Amphidromus naggsi* Thach & Huber, 2014, *Amphidromus schomburgki* (Pfeiffer, 1860) and *Amphidromus inconstans* Fulton, 1898.

Type material: **Holotype** 28 mm, in KBIN (Figs 1-2, 3a). **Paratype 1:** 33.3 mm, in FH (Fig. 4); **Paratype 2:** 29.6 mm, in FH (Figs 5-6); **Paratype 3:** 31.0 mm, in NNT (Fig. 7); **Paratype 4:** 27.4 mm, in FH (Fig. 8); **Paratype 5:** 30.0 mm (not illustrated) in FH, **Paratype 6:** NNT (Fig. 3b). [All paratypes from type locality.]

Introduction: *Amphidromus* is a genus within the **Camaenidae** with many species recorded from Vietnam. In the summer of 2014, another species of this genus was collected. It was not listed in the works by Schilenko (2011) and Thach (2005, 2007, 2012). In this article, it is described as new to science.

Type locality: Outskirts of Nha Trang area, about 30 km southeast of Nha Trang city (Cam Lâm District, Khánh Hòa Province, central Vietnam), at some distance from the village and the National Road No 1A.

Abbreviations:

KBIN: Koninklijk Belgisch Instituut voor Natuurwetenschappen, Brussels, Belgium
FH: collection Franz Huber
NNT: collection Dr. N.N. Thach, Vietnam.
SH: shell height
SW: shell width

Description: Shell small for the genus (with average height 28-31 mm, occasionally reaching 33.3 mm; largest specimen known: paratype 1), usually sinistral (7 out of 11 collected specimens), elongate-ovate with rounded apex. Spire low for the genus (about 20% of shell height), suture adpressed. Columella strongly concave, heavily calloused and twisted at anterior end. Outer surface smooth, body whorl swollen. Shell width rather large, about 63.7 % of shell height (see Table 1). Aperture slightly ovate and wide, about 60% of shell height, outer lip thin, reflected and bordered by a narrow white line.

Systematics:

Class **Gastropoda** Cuvier, 1797
Superfamily **Helicoidea** Rafinesque, 1815
Family **Camaenidae** Pilsbry, 1895
Subfamily **Camaeninae** Pilsbry & Olsson, 1954
Genus *Amphidromus* Albers, 1850
Subgenus *Goniodromus* Bülow, 1905
Type species of the genus: *Helix perversus* Linnaeus, 1758 (subsequent designation by Martens, 1896)

Colour whitish with black columella, black outer lip and chalky white lines beneath sutures.

Specimen No	SH (mm)	SW (mm)	SW/SH	Mean SW/SH
1 (Holotype)	28.0	18.8	0.671	0.637 (63.7%)
2 (Paratype 1)	33.3	19.8	0.594	
3 (Paratype 2)	29.6	19.1	0.645	
4 (Paratype 3)	31.0	18.0	0.581	
5 (Paratype 4)	27.4	19.0	0.693	
6 (Paratype 5)	30.0	19.2	0.640	

Table 1. SW, SH and SW/SH of *Amphidromus thachi*

Range and habitat: Between Nha Trang outskirts and Cam Lâm District, Khánh Hòa Province, Central Vietnam. The specimens were found around trees.

Comparison: *Amphidromus thachi* sp. nov. differs from all known *Amphidromus* species by its black columella that is highly calloused and twisted at the anterior end and the black outer lip that is bordered by a fine white line and pointed at the anterior end.

A. thachi sp. nov. is close to *Amphidromus bulowi* Fruhstorfer, 1905 from Sumatra in having a pointed anterior end of the outer lip, but differs by its white colour, lack of wavy axial stripes and black (not white) outer lip.

A. thachi sp. nov. is close to *Amphidromus naggsi* Thach & Huber, 2014 from Vietnam, but differs by its much smaller adult size, black outer lip and smooth outer surface.

A. thachi sp. nov. is similar to *Amphidromus schomburgki* (Pfeiffer, 1860) from Thailand, but differs by its smaller adult size, pointed anterior end of the outer lip, lack of pattern and by the outer lip, which is not completely black or brown, but bordered by a thin white line.

Etymology: This new species is named in honour of dr. Thach from Vietnam for his enthusiasm in the study of Vietnamese terrestrial snails.

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References:

- Dharma, B.**, 2005. *Recent & Fossil shells of Indonesia*. Conch Books, Hackenheim, 256 pp.
- Laidlaw, F.F. & Solem, A.**, 1961. *The land snail Genus Amphidromus: A synoptic Catalogue*. Chicago Natural History Museum Press, USA, Vol. 41(4): 503-677.
- Schileyko, A.A.**, 2011. Check-list of land pulmonate molluscs of Vietnam (Gastropoda: Stylommatophora). *Ruthenica* 21: 1-68.
- Thach, N.N.**, 2005. *Shells of Vietnam*. ConchBooks, Hackenheim, 430 pp.
- Thach, N.N.**, 2007. *Recently collected Shells of Vietnam*. L'Informatore Piceno & NNT, Ancona, 380pp.
- Thach, N.N.**, 2012. *New Records of Molluscs from Vietnam*. 48HrBooks Co., USA, 427pp.

PLATE

1-8: *Amphidromus thachi* sp. nov.

Nha Trang outskirts, Cam Lâm District, Khánh Hòa Province, central Vietnam

1-2: Holotype (28.0mm long) in KBIN

3a: Apex of holotype

3b: Aperture of Paratype 6 in NNT

4: Paratype 1 (33.3mm) in FH

5-6: Paratype 2 (29.6mm) in FH

7: Paratype 3 (31.0mm) in NNT

8: Paratype 4 (27.4mm) in FH

9-10: *Amphidromus bulowi* Fruhstorfer, 1905 Indonesia. (Photo by Dharma, 2005)

11-12: *Amphidromus inconstans* Fulton, 1898 Indonesia. 29 mm.

(Photo taken from "Reefshells", 2015:

<http://www.reefshells.com/products/products.aspx?idf=12>

