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A new species of *Amphidromus* Albers, 1850 (Gastropoda: Camaenidae) from Vietnam

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Keywords: GASTROPODA, HELICOIDEA, CAMAENIDAE, *Amphidromus*, Đam Rông, Lâm Đồng, Vietnam, new taxon.

Type species: *Helix perversus* Linnaeus, 1758
(subsequent designation by von Martens, 1860)

Abstract: A new species of genus *Amphidromus* Albers, 1850 is described from Đam Rông, Lâm Đồng, Vietnam and compared with three other species belonging to this genus: *Amphidromus ledaoae* Thach, 2016, *Amphidromus latestrigatus latestrigatus* Schepman, 1892 and *Amphidromus floresianus* Fulton, 1897. The new species can readily be recognised by its yellowish-brown colour, black outer lip, red apex and thin axial lines that are usually wavy on the spire whorls.

Amphidromus (Amphidromus) noriokowasoei

sp. nov.

Figs 1-8

Type material: Holotype 34.6mm high x 16mm wide, FH (Figs 1-2) will be moved to a museum in the future;

Paratype 1: 35.6mm high, NNT (Figs 3-5); **Paratype 2:** 36.1mm high (Figs 6-8), FH.

[Both paratypes from type locality].

Introduction: The genus *Amphidromus* Albers, 1850 belongs to the family **Camaenidae** and has many representatives in Vietnam. In October 2016, a hitherto unknown camaenid was found. It was not listed in the works by Parkinson, Hemmen & Groh (1987), Abbott (1989), Dharma (2005), Stanistic, Shea, Potter & Griffiths (2010), Schileyko (2011) and Thach (2005, 2007, 2012, 2016) and is hereby described as new to science.

Type locality: Đam Rông District, Lâm Đồng Province, Vietnam

Abbreviations:

FH: Collection Franz Huber

NNT: Collection Dr Thach

AH: Aperture height

BH: Body Whorl Height

SH: Shell height

SW: Shell width

Description: Shell medium-sized for the genus (height range 34.6-36.1 mm) and elongate-tapering in outline. All three collected specimens are sinistral. Shell width 44.7% of shell height (see table 1). Spire tall and tapering, sutures adpressed. Body whorl inflated and occupying 63.7% of shell height, periphery rounded. Apex red, umbilicus mostly covered by columella. Sculpture weak with oblique axial striae. Outer surface smooth and ornamented with many thin, irregularly-spaced axial lines that extend from suture to suture and usually become wavy on spire whorls. Aperture elongate and bordered by a red line along the outer lip with height 44% of shell height; outer lip moderately thick, reflected and flaring outwards.

Systematics:

Class **Gastropoda** Cuvier, 1797

Superfamily **Helicoidea** Rafinesque, 1815

Family **Camaenidae** Pilsbry, 1895

Genus *Amphidromus* Albers, 1850

Subgenus *Amphidromus (Amphidromus)* s.str.

Colour yellowish brown with white aperture, brown axial lines, black outer lip and columella.

Table 1

No	1	2	3
SH (mm)	34.6	35.6	36.1
SW(mm)	16.0	15.7	15.8
SW/SH	0.46	0.44	0.44
Mean SW/SH	0.447		
AH (mm)	15.3	16.1	15.7
AH/SH	0.44	0.45	0.43
Mean AH/SH	0.44		
BH (mm)	22.2	22.8	22.8
BH/SH	0.64	0.64	0.63
Mean BH/SH	0.637		

Comparison: *Amphidromis noriokowasoei* sp. nov. is close to *Amphidromus ledaoae* Thach, 2016 (Figs 9-10), but differs in its less swollen body whorl, slenderer spire, much thinner axial lines, more constricted sutures and subsutural bands that are narrower and not orange-coloured.

Amphidromus latestrigatus latestrigatus Schepman, 1892 (Fig. 11) mainly differs from the new species in having a very swollen body whorl, a shorter spire, much broader axial lines that are not wavy and crossed by thin spiral lines on spire whorls.

Amphidromus floresianus Fulton, 1897 (Fig. 12) is close to the new species in having a black outer lip, but mainly differs in not having a red apex and the presence of narrow spiral lines crossing axial stripes.

Etymology: This new species is named after Mr Norio Kowasoe from Japan, brother-in-law of Franz Huber, who provided the type material.

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PLATE**1-8: *Amphidromus noriokowasoei* sp.nov.**

Đam Rông District, Lâm Đồng Province, Vietnam

1-2: Holotype (34.6mm) in FH

3-5: Paratype 1 (35.6mm) in NNT

6-8: Paratype 2 (36.1mm) in FH

9-10: *Amphidromus ledaoae* Thach, 2016

11: *Amphidromus latestrigatus latestrigatus* Schepman, 1892 (photo by courtesy of G.& Ph. Poppe)

12: *Amphidromus floresianus* Fulton, 1897 (photo by courtesy of the Natural History Museum United Kingdom, London)

