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Amphidromus lucsegersi, a new species (Gastropoda: Camaenidae) from Indonesia

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Keywords: GASTROPODA, HELICOIDEA, CAMAENIDAE, *Amphidromus*, Toiusapi, West Timor Island, Indonesia, new taxon.

Abstract: A new species of *Amphidromus* Albers, 1850 is described from Toiusapi, Timor Island, Indonesia and compared to four other species of this genus: *Amphidromus contrarius hanieli* Rensch, 1931, *Amphidromus everetti* Fulton, 1896, *Amphidromus poecilochroa* Fulton, 1896 and *Amphidromus floresianus* Fulton, 1897. It is characterized by a purplish outer lip that is as rounded as a tube running from anterior end to posterior sinus of aperture.

Introduction: The genus *Amphidromus* Albers, 1850 belongs to the family **Camaenidae** and has many representatives in Indonesia. In the summer of 2012, 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) and Thach (2005, 2007, 2012, 2016). It is therefore hereby described as new to science.

Abbreviations:

KBIN: Koninklijk Belgisch Instituut voor Natuurwetenschappen, Brussels, Belgium

MNHN: Muséum National d'Histoire Naturelle, Paris, France

LS: Collection Luc Segers

NNT: Collection Dr Thach

AH: Aperture height

SH: Shell height

SW: Shell width

Systematics:

Class **Gastropoda** Cuvier, 1797

Superfamily **Helicoidea** Rafinesque, 1815

Family **Camaenidae** Pilsbry, 1895

Genus ***Amphidromus*** Albers, 1850

Subgenus ***Amphidromus (Amphidromus)*** s.str.

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

***Amphidromus (Amphidromus) lucsegersi* sp. nov.**

Figs 1-10

Type material: **Holotype** 41.2 mm high, MNHN (Figs 1-3, 4a, 5a); **Paratype 1:** 44.8 mm high, KBIN (Figs 4b, 5b, 6-7); **Paratype 2:** 40.5 mm high (Fig. 8), LS; **Paratype 3:** 43.7 mm high, LS (Fig. 9); **Paratype 4:** 40 mm high, NNT (Fig. 10); **Paratype 5:** 36.1 mm high, NNT; **Paratype 6:** 36.8 mm high, NNT.

All Paratypes from type locality.

Type locality: Toiusapi, West Timor Island, Indonesia.

Habitat: The type specimens were collected on short assorted vine thickets and vegetation.

Description: Shell sinistral, medium-sized for the genus (36.1-44.8 mm in adult height), elongately ovate with red apex and swollen early whorls. Spire tall, sutures deep. Shell width 50% of shell height (see Table 1 with measurements of seven specimens). Body whorl inflated with rounded periphery. Outer surface ornamented with axial stripes that are usually wavy at dorsal side of body whorl and widely-spaced axial stripes that are often crossed by thin spiral lines on spire whorls. Sculpture consisting of numerous closely-spaced axial striae that are strongest on the last whorl. Aperture elongate and

occupying 49% of shell height (Table 1), outer lip thick, tubular and highly calloused. Columella strong, thick and calloused.

Colour whitish with purplish outer lip and columella and green (or purplish brown) axial stripes.

	SH mm	SW mm	SW/ SH	Mean SW/ SH	AH mm	AH/ SH	Mean AH/ SH
1	41.2	19.6	0.48	0.50	18.9	0.46	0.49
2	44.8	21.0	0.47		20.9	0.47	
3	40.5	20.2	0.49		20.3	0.50	
4	43.7	23.5	0.54		23.3	0.53	
5	40.0	19.1	0.48		19.1	0.48	
6	36.1	18.9	0.52		17.9	0.50	
7	39.8	19.9	0.50		19.4	0.49	

Table 1: SW/SH and AH/SH of *Amphidromus lucsegersi*

Comparison: *A. lucsegersi* sp. nov. is close to *A. contrarius hanieli* Rensch, 1931 (Figs 11-12) in having a purplish outer lip, but *A. lucsegersi* is less slender, the spire is much broader and the outer lip is tubular.

A. poecilochroa Fulton, 1896 (Fig. 13) mainly differs from *A. lucsegersi* in its smaller adult size, a thinner shell, an external pattern visible within aperture, and a white (not purplish), not tubular outer lip.

A. everetti Fulton, 1896 (Fig. 14) mainly differs from *A. lucsegersi* in its smaller in adult size, less dark-coloured and not tubular outer lip and axial stripes not crossed by spiral lines on the spire whorls.

A. floresianus Fulton, 1897 (Fig. 15) mainly differs from *A. lucsegersi* in its smaller adult size, much broader spire, not purplish and not tubular outer lip.

Etymology: This new species is named in honour of Mr Luc Segers from Belgium for his interest in the study of Indonesian land snails.

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PLATE

1-10: *Amphidromus lucsegersi* sp.nov.

Toiusapi, West Timor Island, Indonesia

1,2,3,4a,5a: Holotype (41.2mm) in MNHN

4b,5b,6,7: Paratype 1 (44.8mm) in KIBN

8: Paratype 2 (40.5mm) in LS

9: Paratype 3: (43.7mm) in LS

10: Paratype 4 (40.0mm) in NNT

11-12: *Amphidromus contrarius hanieli* Rensch, 1931
38mm and 41.2mm

13: *Amphidromus poecilochroa* Fulton, 1896
photo by courtesy of NHMUK

14: *Amphidromus everetti* Fulton, 1896
photo by courtesy of NHMUK

15: *Amphidromus floresianus* Fulton, 1897
photo by courtesy of NHMUK

