

Notes on recent records of snails (Mollusca: Gastropoda) from French Guiana

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Abstract. A total of 16 terrestrial and 2 freshwater species were recorded, belonging to 14 families. New locality records are provided for several species, expanding their known distribution within the region. Some species, were confirmed in previously documented locations.

Key words: gastropods, distribution, Amazon region.

Introduction

The malacofauna of French Guiana is poorly known, and few studies have addressed it. There are 81 known terrestrial snail species (68 native, 13 introduced), and 21 freshwater ones (14 native, 7 introduced) (Massemín *et al.* 2009, Muratov & Gargominy 2011, Gargominy *et al.* 2025). The aim of this report is to provide updated data on species presence at previously reported localities and to document new, previously unreported sites.

Material and Methods

Specimens were collected by hand, through leaf litter and soil sieving, and by beating the vegetation between 24.02 and 04.03.2025. Shells were deposited in the collection of D. Georgiev. Species identification follows Tillier (1980) and Massemín *et al.* (2009). The taxonomic order follows Massemín *et al.* (2009). Species names are according to MolluscaBase eds. (2022).

Results

Species list:

Freshwater species:

AMPULLARIIDAE

***Pomacea guyanensis* (Lamarck, 1822)**

This species is commonly observed in French Guiana (Massemín *et al.* 2009). New locality: the stream of the Furgassie Waterfalls, 04°37'39.8"N 52°18'23.4"W, 55 m a. s. l., 2 ex., 4 shells.

MELANIIDAE

***Doryssa hohenackeri* (R. A. Philippi, 1851)**

The species is commonly observed in French Guiana in small rainforest streams, endemic to the Guianas (Massemín *et al.* 2009). New locality: the stream of the Furgassie Waterfalls, 04°37'39.8"N 52°18'23.4"W, 55 m a. s. l., 2 ex.

Terrestrial species:

HELICINIDAE

***Alcadia kuehni* (L. Pfeiffer, 1872)**

Aground dwelling to semi-arboreal species found in many localities in French Guiana mainly along the coast, and with a few records near Oyapok River (Massemín *et al.* 2009). We re-collected it at Remire-Montjoly, at the estuary of Mahury River: 24.02.2025, on dry leaves hanging on bushes near a road, 04°52'03.6"N 52°15'00.4"W, 14 m a. s. l., 1 ex., 01.03.2025, degraded bush area between rain forest and a road, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 8 shells, and one new locality: near Sinnamary River, below the dam wall, edge of a forest, from dry *Heliconia* sp. leaves, 05°04'00.6"N 53°03'02.8"W, 16 m a. s. l., 1 ex.

VERONICELLIDAE

***Angustipes carceralis* Tillier, 1980**

Endemic species found along the coast of the Atlantic Ocean at Awala-Yalimapo, Ile de Cayenne, Ile Royale (Iles de Salut – type locality), Kaw, Saut Sabbat (Mana), Saint-Jean du Maroni and Saint-Laurent du Maroni (Massemín *et al.* 2009). New locality: 24.02.2025, on dead wood, grasses and bushes near a road, Remire-Montjoly, at the estuary of Mahury River, 04°52'03.6"N 52°15'00.4"W, 15 m a. s. l., 2 ex. (Fig. 1 - C).

SUBULINIDAE

***Allopeas clavulinum* (Potiez & Michaud, 1838)**

This probably widely introduced in the tropical areas species was recorded from several localities along the coast of French Guiana (Massemín *et al.* 2009). We collected it nearby two reported locations: Cayenne and Ilet le Pere: 04.03.2025, degraded bush area between rain forest and a road, at the estuary of Mahury River, Remire-Montjoly, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 1 shell.

***Allopeas gracile* (T. Hutton, 1834)**

Species with pan tropical distribution, known from few localities in the study area: Awala-Yalimapo, Cayenne, Degrad des Cannes, Matoury, Pointe Combi and Sinnamary (Massemín *et al.* 2009). We recorded it by observing many empty shells from the area of Remire-Montjoly: 04.03.2025, degraded bush area between rain forest and a road, at the estuary of Mahury River, Remire-Montjoly, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 5 shells.

***Beckianum beckianum* (L. Pfeiffer, 1846)**

The species was known from many coastal localities and one inland, Nourages at “abbatis” (recently cut down forest area from slash-and-burn cultivation) (Massemín *et al.* 2009). We re-collected it from the area of Remire-Montjoly: 01.03.2025, degraded bush area between rain forest and a road, at the estuary of Mahury River, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 4 shells.

OLEACINIDAE

***Euglandina striata* (O. F. Müller, 1774)**

Reported from a variety of habitats at Degrad des Cannes, Gourdouville, Inselber de la Trinite, Kaw, Nourages, Saul, Saut Sabbat, Cayenne and Rorota (Montjoly) (Massemín *et al.* 2009). We re-collected it, close to Rorota: 01.03.2025, degraded bush area between rain forest and a road, at the estuary of Mahury River, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 1 shell, and from one new locality: 04.03.2025, yard of a house, near Roura, 04°37'48.5"N 52°20'07.6"W, 8 m a. s. l., 1 shell.

ORTHALICIDAE

***Bulimulus tenuissimus* (A. Férussac, 1832)**

The species was reported from many localities in French Guiana along the coast, a few at the Maroni River, and two at inland locations (Saul and Regina) (Massemin *et al.* 2009). We registered it near its type locality, Ilet la Mere, at Remire-Montjoly, at the estuary of Mahury River: 24.02.2025, yard of a lodge (Lodges Balourou), on a stone wall, 04°52'00.8"N 52°15'06.1"W, 19 m a. s. l., 1 ex.; 01.03.2025, degraded bush area between rain forest and a road, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 10 shells.

***Sultana sultana* (Dillwyn, 1817)**

This species was widely observed from many locations, mainly at the north of French Guiana, with a single report from the south at Trois Sauts (Massemin *et al.* 2009). New locality: 07.09.2024, Crique Marguerite, Roura, French Guiana, clearing in a tropical rainforest with savanna-like ambient, on the ground, between grass and small bushes, 04°37'48.4"N 52°20'07.6"W, 8 m a. s. l., 1 shell.

ACHATINIDAE

***Achatina immaculata* (Lamarck, 1822)**

This introduced species is the only known from the genus from French Guiana. It was reported from Cayenne, Matoury and Remire (Massemin *et al.* 2009). We re-collected it from the last locality: 30.07.2023, plantation, Remire-Montjoly, 04°51'30.0"N 52°15'47.1"W, 8 m a. s. l., 1 shell.

***Leptinaria unilamellata* (A. d'Orbigny, 1838)**

Native species occurring both in coastal and inland forest habitats, found at the eastern part of French Guiana (Massemin *et al.* 2009). New locality: 04.03.2025, degraded bush area between rain forest and a road, at the estuary of Mahury River, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 1 shell.

***Opeas hannense* (Rang, 1831)**

Probably pantropical species found at two localities in French Guiana: Cayenne and Nouragues (Massemin *et al.* 2009). New locality: 04.03.2025, degraded bush area between rain forest and a road, at the estuary of Mahury River, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 2 shells.

STREPTAXIDAE

***Tomostele musaecola* (Morelet, 1860)**

Introduced West African species (Alvarez-Abreu *et al.* 2021), known only from two localities: Saul and Ilet de Mere (Massemin *et al.* 2009). New locality: 04.03.2025, degraded bush area between rain forest and a road, at the estuary of Mahury River, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 1 shell.

SCOLODONTIDAE

***Happiella surinamensis* (L. Pfeiffer, 1872)**

The species is endemic to the Guianas and known from five localities in French Guiana: Camopi, Kaw, Noragues, Saut Sabbat (Mana), and Montjoly (Plateau du Mahury) (Massemin *et al.* 2009). We recollected it from the last locality: 01.03.2025, degraded bush area between rain forest and a road, at the estuary of Mahury River, Remire-Montjoly, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 1 shell, and 04.03.2025, same locality, 2 shells.

***Tamayoa decolorata* (Drouët, 1859)**

Endemic to the Guianas. Known from 12 localities in the study area. Closest to the recent finding are Cayenne and Ilets la Mere, and le Pere (Massemin *et al.* 2009): 04.03.2025, degraded bush area between rain forest and a road, at the estuary of Mahury River, Remire-Montjoly, 04°52'03.2"N 52°15'05.8"W, 27 m a. s. l., 2 shells.

ARIOPHANTIDAE

***Parmarion martensi* Simroth, 1893**

Introduced species reported for French Guiana by Massemin *et al.* (2009) for Cayenne and Saint-Jean du Maroni. New localities: 29.07.2023, on a rock at grassy terrain with scattered bushes, Remire-Montjoly, 04°51'30.0"N 52°15'47.1"W, 8 m a. s. l., 1 ex. (Fig. 1 - A); 02.03.2025, Guiana Zoo, 04°56'50.6"N 52°29'31.5"W, 10 m a. s. l., 4 ex.

SOLAROPSIDAE

***Solaropsis undata* ([Lightfoot], 1786)**

A common large species, easily observed. Recorded in many localities at the north and south-east of French Guiana (Massemin *et al.* 2009). New locality: 14.03.2024, Marais de Kaw, Régina, rainforest, 400m north of Kaw River, 20 cm above ground on a wet trunk of a 50 mm tick unidentified tree/bush, 04°29'54" N, 52°02'43" W, 42 m a. s. l., 1 ex. (Fig. 1 - B).



Fig. 1. Some of the living gastropods registered: A – *P. martensi* (Remire-Montjoly), B – *S. undata* (Régina, north of Kaw River), C – *A. carceralis* (Remire-Montjoly). (Photo: A, C – D. Georgiev, B – T. Mishev).

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