

Biodiversity Record: New Singapore record of the snail *Pseudoliotia godeti*

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Subject: *Pseudoliotia godeti* (Mollusca: Gastropoda: Tornidae).

Subject identified by: Chan Sow-Yan and Lau Wing Lup.

Location, date and time: Johor Strait, Changi Beach; 14 December 2019 at 1730 hrs.

Habitat: Estuarine shore, at the intertidal zone.

Observers: Lau Wing Lup & Chan Sow-Yan

Observation: One shell, about 2 mm in diameter and inhabited by a hermit crab, was found under rocks during low tide (Fig. 1). The shell is yellowish-white, turbanate shaped with about four whorls, glossy and very thick with a consistently scalloped circumference. The oblique aperture is circular with a thick and continuous peristome. The first two early whorls are smooth and convex, the rest of the later whorls have a smooth flattened ramp fringed by evenly distributed and strong wavy axial ribs which become nodules below the sutures. On the last whorl, the longitudinal ribs descend to the open and deep umbilicus. Three decurrent and equally spaced spiral cords surround the umbilical cavity, with one at the innermost periphery, another somewhat in the middle, and the third at the outermost edge of the shell base.

Remarks: *Pseudoliotia godeti* is herein documented as a new record for Singapore (see Tan & Woo, 2010; Sanpanich & Tan, 2016). It was described from Vietnam by Dautzenberg & Fischer (1907), and the shell from Changi matches the drawings of the species in the original description well.

Pseudoliotia godeti has a similar appearance to *Pseudoliotia reeviana* (see Fig. 2) and the vitrinellid *Circulus marchei* (see Fig. 3) (Tan & Woo, 2010 as *Cyclostrema reeveana* and *Cyclostrema marchei*), but can be separated from those by its smaller maximum size, protruding axial ribs and presence of three evenly spaced spiral cords encircling the umbilical cavity.

The authors have not encountered any live specimens of the three species in intertidal areas to date. It is likely that the animals inhabit subtidal zones and appear in the intertidal areas after death, when the shells are occupied by hermit crabs or washed up by currents.

Literature cited:

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- Tan SK & Woo HPM (2010) A Preliminary Checklist of the Molluscs of Singapore. Raffles Museum of Biodiversity Research, National University of Singapore, 78 pp. Uploaded 2 June 2010. https://lknhm.nus.edu.sg/wp-content/uploads/sites/10/app/uploads/2017/04/preliminary_checklist_molluscs_singapore.pdf (Accessed 26 September 2022)

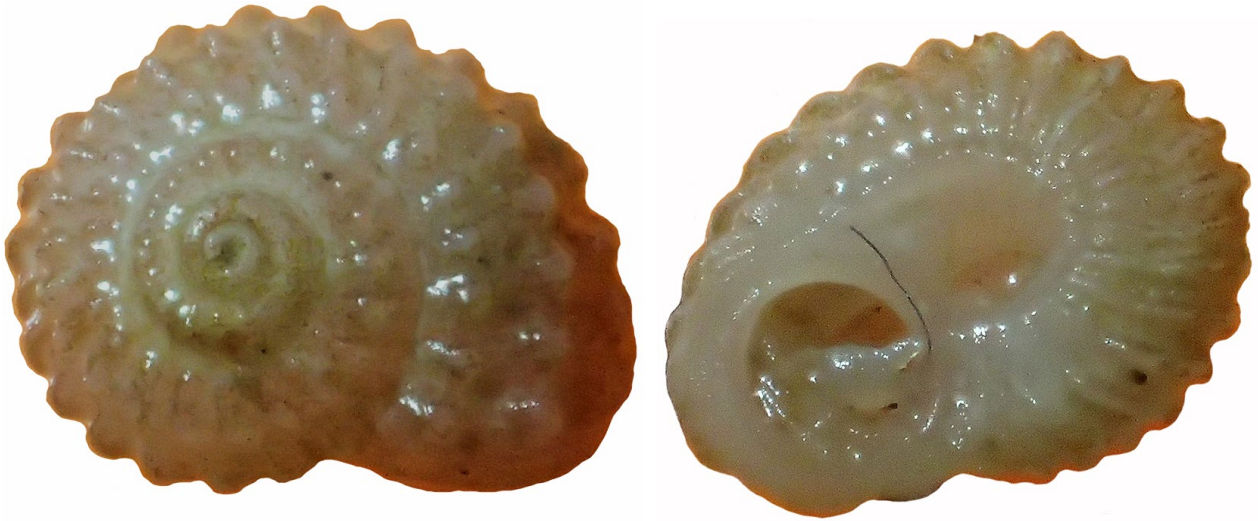


Fig. 1. Apical (left) and umbilical views of the *Pseudoliotia godeti* shell of about 2 mm diameter found on Changi Beach on 14 December 2019. (Photographs by: Lau Wing Lup)



Fig. 2. Apical (left) and umbilical views of the *Pseudoliotia reeviana* shell of about 8 mm diameter found among beach debris and shell grit near the canal mouth at Pasir Ris Park on 19 June 2022. (Photographs by: Lau Wing Lup)



Fig. 3. Apical and umbilical views of *Circulus marchei* shell of about 3 mm diameter from Changi Beach on 28 November 2019. (Photographs by: Lau Wing Lup)