

Annual diplomate snails, *Diplommatina concinna*, on Bukit Timah Hill

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Subjects: Annual diplomate snail, *Diplommatina concinna* (Mollusca: Gastropoda: Diplommatinidae).

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

Location, date and time: Singapore Island, Bukit Timah Nature Reserve; 9 May 2020; around 1624 hrs.

Habitat: Primary lowland rainforest. On damp and decaying leaves among organic debris, beside pathway.

Observers: Chan Sow-Yan and Lau Wing Lup.

Observation: Four live examples, each of about 2 mm shell height, were found in leaf litter under shrubs and trees. They were inactive and attached to the surfaces and mid-ribs of dead leaves. Two of them are shown in Fig. 1 & 2.



Fig. 1. Dorsal view of snail on the midrib of a dead leaf.



Fig. 2. Specimen among white fungi filaments on a dead leaf, a possible food source.

Photographs by Lau Wing Lup

Remarks: Despite the shells appearing light pinkish in life, *Diplommatina concinna* is rarely noticed due to its tiny size and cryptic nature. The genus *Diplommatina* contains several hundred species that are distributed throughout Southeast Asia, to Japan, north Australia and the Pacific islands, and identified from shell morphology (Neubert & Bouchet, 2015). Although most species are found only in primary forest on limestone (Vermeulen, 1993), the featured species occurs on acidic soil at the foothill near a granite quarry. *Diplommatina concinna* is also found in Borneo and the Natuna Islands (Indonesia). It is featured as a member of the native Singaporean fauna in Tan et al. (2012) but not recorded in Tan & Woo (2010), which lists the congeners *Diplommatina adversa* and *Diplommatina nevilli*.

References:

- Neubert E & Bouchet P (2015) The Diplommatinidae of Fiji – a hotspot of Pacific land snail biodiversity (Caenogastropoda, Cyclophoroidea). *ZooKeys*, 487: 1-85. <https://doi.org/10.3897/zookeys.487.8463>
- Tan SK & Woo HPM (2010) A preliminary checklist of the molluscs of Singapore. Raffles Museum of Biodiversity Research, National University of Singapore. 78 pp.
- Tan SK, Chan SY & Clements GR (2012) A Guide to Snails and other Non-marine Molluscs of Singapore. Singapore Science Centre. 176 pp.
- Vermeulen JJ (1993) Notes on the non-marine molluscs of the island of Borneo 5. The genus *Diplommatina* (Gastropoda: Prosobranchia: Diplommatinidae). *Basteria*, 57 (1/3): 3-69.