

## Biodiversity Record: First Singapore record of the mitre shell, *Vexillum lyratum*

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**Subject:** Lirate ribbed mitre, *Vexillum lyratum* (Mollusca: Gastropoda: Costellariidae).

**Subject identified by:** Tan Siong Kiat.

**Location, date and time:** Singapore Strait, southwestern side of Semakau landfill at 01°11.467'N 103°45.549'E; 24 November 2022; 0959–1007 hrs.

**Habitat:** Marine. On seabed at 22–24.7 m depth, with rocks and sargassum, but details on substrate not noted.

**Observers:** Collected by staff members of the Lee Kong Chian Natural History Museum on the National University of Singapore's research vessel RV GALAXEA.

**Observations:** One example of 53.7 mm shell length (Fig. 1) was recovered alive in one of the dredge hauls during a series of dredge samplings carried out at a few locations around Singapore. This specimen is deposited in the Zoological Reference Collection (ZRC; catalogued as ZRC.MOL.29119), of the Lee Kong Chian Natural History Museum, at the National University of Singapore.

**Remarks:** This find appears to represent the first record of *Vexillum lyratum* in Singapore. Some 15 species of its family Costellariidae have been documented (Chuang, 1973; Way & Purchon, 1981; Chou et al., 1994; Tan & Woo, 2010; Sanpanich & Tan, 2016; Leow, 2021; Tan & Low, 2022), but a review is probably needed to evaluate the veracity of many of these records. Less than half a dozen of the species thus far recorded are represented in the ZRC.

### Literature cited:

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Fig. 1. Apertural (left) and abapertural (right) views of the shell of *Vexillum lyratum* (ZRC.MOL.29119). (Photograph by: Tan Siong Kiat)

Way K & Purchon RD (1981) The marine shelled Mollusca of West Malaysia and Singapore. Part 2. Polyplacophora and Gastropoda. *Journal of Molluscan Studies*, 47(3): 313–321.