

## The bombardier dragonfly, *Lyriothemis cleis*, at Dairy Farm Nature Park

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**Subject:** Bombardier, *Lyriothemis cleis* (Insecta: Odonata: Libellulidae).

**Subject identified by:** Marcus F. C. Ng.

**Location, date and time:** Singapore Island, Bukit Timah, Dairy Farm Nature Park, Wallace Trail; 2 February 2019, around 1200 hrs.

**Habitat:** Secondary forest.

**Observer:** Marcus F. C. Ng.

**Observation:** A lone female of about 4 cm was spotted by the forest trail in a small sunlit clearing, perched on a twig of a fallen thicket at about one metre off the ground (see accompanying photograph). The section of the trail was at least 30 metres from the nearest stream or ditch. Another odonate seen at the same site, but not photographed, was a dryad damselfly, *Pericnemis stictica* (Coenagrionidae).

**Remarks:** Both these odonate species occur in forest, and are considered 'restricted and rare' in Singapore (Soh et al., 2019: 14, 16). *Lyriothemis cleis* is recorded to oviposit in water-filled cavities in plants, while *Pericnemis stictica* is thought to breed in water-filled bamboo stumps (Tang et al., 2010: 76, 160).

### References:

- Soh, M., M. Ng & R. W. J. Ngiam, 2019. New Singapore record of a dragonfly, *Indothemis carnatica*, with an updated Singapore Odonata checklist. *Singapore Biodiversity Records*. 2019: 10-17.
- Tang H. B., L. K. Wang & M. Hämäläinen, 2010. *A Photographic Guide to the Dragonflies of Singapore*. Raffles Museum of Biodiversity Research, National University of Singapore. 222 pp.



Dorso-lateral view of female *Lyriothemis cleis* at Wallace Trail. Photograph by Marcus F. C. Ng