Paper wasp *Ropalidia sumatrae* nest in Central Catchment Nature Reserve


**Subjects identified by**: Zestin W. W. Soh.

**Location, date and time**: Singapore Island, western part of Central Catchment Nature Reserve; 23 September 2016 at 1000 hrs and 27 September 2016 at 1200 hrs.

**Habitat**: Edge of secondary forest.

**Observers**: Robin W. J. Ngiam, William Ng & Ngon Soon Kong.

**Observation**: A large nest with live workers was observed protruding from the side of a tree, at a height of about 4 m. The total length of the nest was about 1 m. See Figs. 1 & 2.

**Remarks**: *Ropalidia* is a speciose genus of paper wasp with a wide distribution in the Old World, and represented by about 60 species in Southeast Asia (Tan et al., 2014). Despite their presence in Singapore’s parks and gardens (Soh & Ngiam, 2013), the diversity and nesting biology of *Ropalidia* in the country is poorly studied.

Species of *Ropalidia* are known to exhibit a diverse range of nest architectures, and examination of these can aid in specific identification, as well as contribute to the understanding of their phylogenetic relationships (Kojima, 1982; Tan et al., 2014).

The featured record shows the nest architecture of *Ropalidia sumatrae* (Figs. 1 & 2), one of the most common *Ropalidia* species in Singapore (Soh & Ngiam, 2013). The large rounded combs extend on the side of the tree from within a hollow, and may be mistaken for the nests of the giant honeybee (*Apis dorsata*) which has a similar appearance. The nest architecture of *Ropalidia sumatrae* is vastly different from several other species of *Ropalidia* in Singapore that build long, elongated nests which extend from underneath an overhang.

**References**:
Fig. 1. Nest of *Ropalidia sumatrae* on a tree trunk.

Fig. 2. Close up of nest and workers.

Photographs by Robin W. J. Ngiam