

PRELIMINARY ODONATE SURVEY OF PERAK, PENINSULAR MALAYSIA**Y. NORMA-RASHID**

Department of Zoology, Faculty of Science, University of Malaya, 59100 Kuala Lumpur, Malaysia

Abstract – 25 spp. are listed from 2 study sites (June and Aug., resp.) in the Hulu Perak, in the state of Perak. All are typical of lowland habitats and widely distributed.

Introduction

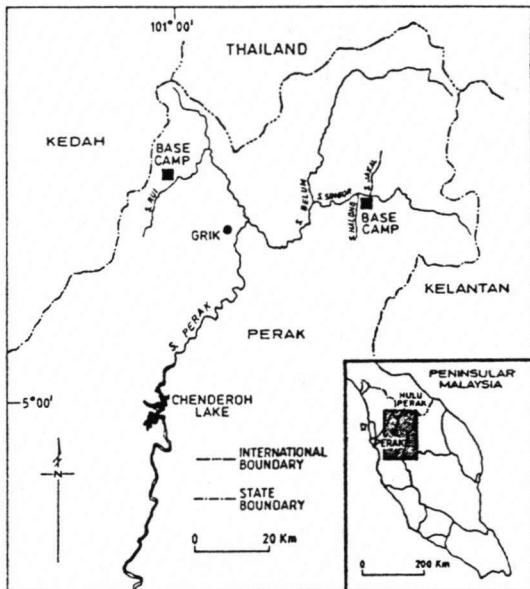


Fig. 1. Map of the Hulu Perak, Perak, Malaysia.

The below listed species were collected in Grik (August 1992) and in Belum (June 1993), district of Hulu Perak. The two areas are drained by the tributaries of the main Perak R., i.e. the Sungai Rui in Grik, and the Sungai Singor in Belum (cf. Fig. 1). Collections were made along the Sungai Jakal and Sungai Halong, which branch off from the two main tributaries.

The forested area in Grik had been a "restricted area" for the past 30 years, it became only recently accessible to the public. Even so, the regional woodland authority, Dr E. Soepadno (pers. comm.), describes it as a logged over forest, covered with *belukar*. The Sungai Rui, passing through a lowland forest (alt. 341-169 m), has a rocky, sandy and muddy bed, water depth 2-4 m.

In the Belum Forest Reserve, the Sungai Jakal is a fast-flowing stream, with boulders and sandy beds surrounded by logged forest (alt. 676-206 m). The Sungai Halong is close to the Base Camp, and cuts through a higher area (alt. 735-294 m). It has a moderate velocity and clear water, and is shaded with an extensive cover of vegetation.

Species collected

Chlorocyphidae

- *Rhinocypha f. fenestrella*
Ramb.: 6 ♂, Sungai Halong, 16 & 18-VI-1993; - 5 ♂, Sungai Jakal, 16-VI-1993.

Euphaeidae

- *Dysphaea dimidiata* Sel.: 1 ♂, Sungai Rui, 24-VIII-1992.
- *Euphaea o. ochracea* Sel.: 6 ♂, Sungai Halong, 16/18-VI-1993; - 4 ♂, Sungai Jakal, 16-VI-1993.

Calopterygidae

- *Vestalis amethystina* Lft.: 8 ♂, 1 ♀, Sungai Halong, 16/18-VI-1993; - 1 ♂, Sungai Jakal, 16-VI-1993.

Megapodagrionidae

- *Rhinagrion mima* (Karsch): 1 ♀, Sungai Halong, 18-VI-1993.

Platycnemididae

- *Copera marginipes* (Ramb.): 1 ♂, Sungai Jakal, 16-VI-1993; - 2 ♂, Sungai Rui, 24/29-VIII-1992.
- *C. v. vittata* (Sel.): 2 ♂, Sungai Halong, 18-VI-1993.

- *Indocnemis orang* (Förster): 1 ♂, 1 ♀, Sungai Halong, 16-VI-1993.

Coenagrionidae

- *Agriocnemis rubescens rubeola* Sel.: 2 ♂, 1 ♀, Sungai Rui, 24/29-VIII-1992.

Gomphidae

- *Ictinogomphus decoratus melauenops* (Sel.): 1 ♂, Belum Base Camp, 16-VI-1993; - 4 ♂, Sungai Halong, 18-VI-1993.

Libellulidae

- *Tetrathemis platyptera* Sel.: 1 ♂, Sungai Rui, 24/29-VIII-1992.
- *Lathrecista a. asiatica* (Fabr.): 2 ♂, Sungai Rui, 29-VIII-1992.
- *Orthetrum chrysis* (Sel.): 10 ♂ (incl. 3 teneral), Sungai Rui, 24/29-VIII-1992; - 1 ♂, Sungai Halong, 18-VI-1993.
- *O. glaucum* (Br.): 3 ♂, Sungai Rui, 24/29-VIII-1992.
- *O. luzonicum* (Br.): 1 ♂ (teneral), Sungai Rui, 24/29-VIII-1992.
- *O. s. sabina* (Dru.): 3 ♂, Sungai Rui, 24/29-VIII-1992; - 1 ♀, Belum Base Camp, 16-VI-1993; - 1 ♂, Sungai Halong, 17-VI-1993.
- *O. t. testaceum* (Burm.): 10 ♂, Sungai Rui, 24/29-VIII-1992.

- *Brachydiplax c. chalybea* Br.: 1 ♂, 1 ♀, Belum Base Camp, 16-VI-1993.
- *Tyriobapta torrida* Kirby: 1 ♂, Sungai Rui, 24/29-VIII-1992.
- *Diplacodes trivialis* (Ramb.): 1 ♂, Sungai Halong, 15-VI-1993; - 5 ♂, Belum Base Camp, 16-VI-1993.
- *Neurothemis fluctuans* (Fabr.): 4 ♂, Sungai Rui, 24/29-VIII-1992; - 3 ♂, Sungai Halong, 18-VI-1993.
- *Trithemis aurora* (Burm.): 1 ♂, Sungai Rui, 24/29-VIII-1992; - 2 ♂ (incl. 1 teneral), Sungai Halong, 18-VI-1993.
- *T. festiva* (Ramb.): 2 ♂, Sungai Halong, 12 & 18-VI-1993.
- *T. pallidinervis* (Kirby): 1 ♂, 3 ♀, Belum Base Camp, 16-VI-1993; - 1 ♀, Sungai Halong, 17-VI-1993.
- *Pantala flavescens* (Fabr.): 3 ♂, 1 ♀, Belum Base Camp, 16-VI-1993.

Discussion

The 25 species represent by no means a final reflection of the odonate diversity of the region studied, the list will no doubt expand after a more thorough survey. *V. amethystina*, *E. ochracea*, *O. chrysia* and *O. testaceum* are the most common. All of our species are typical of lowland areas. Some, e.g. *C. marginipes*, *O. sabina*, *O. testaceum* and *N. fluctuans*, were reported also from the cultivated land (FURTADO, 1969; LIEFTINCK, 1954). The reported assemblage is similar to the fauna of the adjacent Thailand (PINRATANA et

al., 1988); 60% of the recorded libellulids are widely distributed.

Interestingly, *P. flavescens* and *D. trivialis* were found in dry places, far from water and close to the Belum Base Camp. LIEFTINCK (1954) attributed this to their migratory ability.

There were 5 species common to both Grik (Sungai Rui) and Belum (Sungai Halong), and 3 of these (*C. marginipes*, *O. chrysia*, *T. aurora*) had been reported by FURTADO (1974) to occur both in the urbanised lowland and in the hill-country streams.

Acknowledgements – I would like to thank WAN ABDUL RASHID, A. SASEKUMAR, ZAKARIA-ISMAIL, ROHANI ABBAS and ROSLI RAMLY for their help one way or the other. I would also like to express my utmost gratitude to Dr M. HÄMÄLÄINEN (University of Helsinki) for confirming some of the determinations, and to Dr. J. TRUEMAN (Dickson, Australia) for his invaluable comments.

References – FURTADO, J.I., 1969, *Verh. int. Ver. Limnol.* 17: 863-887; – 1974, *Odonatologica* 3(3): 167-177; – LIEFTINCK, M.A., 1954, *Treubia* 22 (Suppl.): xiii+202 pp.; – PINRATANA, A., B. KIAUTA & M. HÄMÄLÄINEN, 1988, *List of the Odonata of Thailand*, Viratham Press, Bangkok.

Received May 24, 1994