

Further Studies

We are now further examining the adult specimens to ascertain the taxonomic status of this firefly. Unidentified firefly larvae have also been collected from the mangroves in HKWP where the *Pteroptyx* species were found. These larvae were observed feeding on small gastropods (Fig. 6). Studies are now under way to investigate whether these larvae belong to the *Pteroptyx* species. A baseline survey of the *Pteroptyx* firefly in similar mangrove habitats in Hong Kong is being carried out. We have also found the larvae of an unidentified aquatic firefly species in a freshwater marsh (Fig. 7). The larvae live in water throughout the larval stage, breathe through eight pairs of bifurcate gills and feed on aquatic gastropods. Taxonomical and ecological studies of this aquatic firefly species are also being conducted.

Fig 6. Unidentified larva found underneath mangrove plants at HKWP.



Fig 7. Unidentified aquatic firefly larva found in a freshwater marsh.



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References

- Ballantyne, L. A., and M. R. McLean. 1970. Revisional studies on the firefly genus *Pteroptyx* Olivier (Coleoptera: Lampyridae: Luciolinae: Luciolini). *Transactions of the American Entomological Society* 96: 305.
- Ballantyne, L. A. 2001. The bent winged fireflies of Cambodia, Indonesia, Malaysia, Philippines and Thailand (Coleoptera: Lampyridae: Luciolinae: Luciolini). *Pteroptyx* spp. of the Polunin collection. *Serangga* 6 (1): 51-95.
- Jeng, M. L., M. Engel, and P. S. Yang. 2007. *Oculogryphus*, A Remarkable New Genus of Fireflies from Asia (Coleoptera: Lampyridae). *American Museum Novitates* 1-19.
- Nada, B., L. G. Kirton, and V. Khoo. 2008. Conservation efforts for the Synchronous Fireflies of the Selangor River in Malaysia. *Proceedings of International Firefly Symposium, Chiang Mai, Thailand*.
- Nallakumar, K. 2002. Management and Conservation of Fireflies in Peninsular Malaysia. PhD Dissertation, University of London.
- Wing, S., J.E. Lloyd, and T. Hongtrakul. 1983. Male competition in *Pteroptyx* fireflies: Wing-cover clamps, female anatomy, and mating plugs. *Florida Entomologist* 66:86-91.