

The distribution and biological aspects of Indonesian short-fin eel, *Anguilla bicolor bicolor* and giant mottled eel, *Anguilla marmorata* in the northwest of Peninsular Malaysia

ABSTRACT

This study describes the distribution and biology of Indonesian short-fin eel, *Anguilla bicolor bicolor* and giant mottled eel, *Anguilla marmorata* collected in the northwest of Peninsular Malaysia. A total of 33 specimens of *A. b. bicolor* were collected from Sungai Batu Pahat, Kuala Perlis and downstream of Sungai Pinang, while five specimens of *A. marmorata* were collected from the upper stream of Sungai Pinang. The range of body mass and total length of *A. b. bicolor* and *A. marmorata* were 85.2-2012.1 g and 275.0-905.0 mm; and 240.1-830.1g and 498.0-756.0 mm, respectively. The individual gonadosomatic index (IG) value for *A. b. bicolor* collected from Perlis and Pulau Pinang indicated that 90.0% and 39.1% of the samples were in mature stages, respectively, while for *A. marmorata*, the individual IG value indicates that all of the samples were still immature. The occurrence and distribution of *A. b. bicolor* was firstly reported in Perlis, Malaysia.

Keyword: Anguillid eel; *Anguilla bicolor bicolor*; *Anguilla marmorata*; Ecology