

**9th INTERNATIONAL MARDIN
ARTUKLU SCIENTIFIC
RESEARCHES CONFERENCE**

**January 20-22, 2023,
Mardin, TURKIYE**

THE BOOK OF ABSTRACTS

**EDITED BY
Asst. Prof. Dr. Abbas KARAAĞAÇLI
Gulnaz GAFUROVA**

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REPRODUCTIVE BIOLOGY AND MORPHOLOGICAL VARIATIONS IN *NEMIPTERUS* SPECIES**Mustafizur M. Rahman and Ummi Fatimah***Department of Marine Science, Faculty of Science, International Islamic University Malaysia, Kuantan, Pahang, Malaysia***ABSTRACT**

The information on comparative reproductive biology for specific *Nemipterus* species is lacking although they are largely consumed by local Malaysian peoples. Besides the lacking of species differentiation, research and management of the *Nemipterus* species are major issues for the proper management of this fish. Therefore, this study was conducted to determine the morphological and reproductive variations of selected *Nemipterus* species. *N. furcosus*, *N. tambuloides* and *N. nematophorus* were randomly sampled monthly for a period of one year (November 2020 - October 2021) from commercial fishing vessels in Kuantan, Malaysia. Overall, *N. furcosus* showed a positive allometric growth, *N. tambuloides* showed isometric and positive allometric growth, and *N. nematophorus* showed a negative allometric growth. The mean of K value (condition factor) varies from 1.19 to 1.36 in male *N. furcosus*, and from 1.15 to 1.35 in male *N. furcosus*, while the K value varies from 1.26 to 1.30 in male *N. tambuloides* and from 1.20 to 1.28 in female *N. tambuloides*. The K value of *N. nematophorus* varies from 1.24 to 1.87 in males and from 1.24 to 1.84 in females. Male *N. nematophorus* are morphologically different compared to female *N. nematophorus*. Discriminant function analysis indicates that the head region of *Nemipterus* species has the largest contribution in distinguishing those selected three species. The spawning season for *N. furcosus*, *N. tambuloides*, and *N. nematophorus* is within February until May, November until June and January until May, respectively. Throughout the year, *N. furcosus* has the highest fecundity among *N. tambuloides* and *N. nematophorus*. The size at first sexual maturity for *N. furcosus* (male 17.2 cm, female 15.4 cm), *N. tambuloides* (both male and female 16.2 cm), and *N. nematophorus* (male 13.2 cm and female 13.8 cm). All species have almost similar sizes at first sexual maturity except for *N. furcosus*. The results of this study particularly fish identification, growth coefficient, spawning season and the size of first sexual maturity would be useful for a proper guideline in fisheries management in order to achieve sustainable exploitation of studied *Nemipterus* species.

Keywords: Population parameter; Maturity; Spawning season; *Nemipterus furcosus*; *Nemipterus tambuloides*; *Nemipterus nematophorus*