

## Keanekaragaman amphidromus di Indonesia serta perbedaan morfometrik dan genitalia antara anakmarga amphidromus dan syndromus (Pulmonata: Camaenidae) koleksi Museum Zoologicum Bogoriense, Bogor, Indonesia

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### Abstrak

Amphidromus, a genus of arboreal pulmonate land snails belong to the family Camaenidae, is found in Indonesia. The total species of Amphidromus in Indonesia are almost half of the total number of species in the world. Most of these species were described before 1900. The collections of Amphidromus at the Museum Zoologicum Bogoriense, were collected after 1900.

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Shell of subgenus Amphidromus rather stout, either dextral or sinistral, usually solid, and with periodical colour-stripes or varix, and shell of subgenus Syndromus always sinistral, usually thin, never marked with varix, the varietals callus usually thin and transparent.

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The aim of the study is to know the diversity and distribution of Amphidromus in Indonesia based on the specimen of Museum Zoologicum Bogoriense, and also to study the difference of morphometric and genitals between subgenus Amphidromus and Syndromus. This study was carried out in the period of May - October 1996 at the Laboratory of Malacology, Museum Zoologicum Bogoriense, Bogor.

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Each species was measured and described the shell measurement, shell colour, locality and the date of specimen collection. Morphometric data consist of high, diameter, and high of aperture of adult shells. Cluster analysis of morphometric data is primarily dissimilarity index Bray - Curtis's method. The difference of penial complex of genitals is counted based upon the length of epiphallic flagellum and length of epiphallus.

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The result of this study showed that the Museum Zoologicum Bogoriense has 67,57 % (25 species) of total species from Indonesian Amphidromus. One of those species has never been collected, Amphidromus (Syndromus) annae, which might be endemic species located in Selayar island. The specimen from Mount Buntung, East Kalimantan, will be described as a new species in separate publication.

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The new record for their distribution of Amphidromus javanicus was recognized from Jambi, A. sumatranus from Siberut island, and A. contrarius from Alor island. The subgenus Syndromus in Indonesia is distributed in Sumatra, Kalimantan, Sulawesi, Jawa, Bali, NTB, NTT, Timor island, Wetar island, Roma island, and Tanimbar islands. While subgenus Amphidromus dispersed in Sumatra, Kalimantan, Sulawesi, Jawa, and Bali. Based on the data collections, Amphidromus palaceus was found through out the years.

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The epiphallic flagellum of subgenus Amphidromus, is longer than epiphallus, while subgenus Syndromus, is shorter. Cluster analysis showed that only 92 % of subgenus Amphidromus and Syndromus has

morphometric differences.