

A new replacement name for *Ditropis* Blanford, 1869 (non Kirschbaum, 1868) (Gastropoda, Architaenioglossa, Cyclophoridae)

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Ditropis Blanford, 1869 (Gastropoda: Architaenioglossa: Cyclophoridae) is a junior homonym of *Ditropis* Kirschbaum, 1868 (Insecta: Heteroptera: Delphacidae). *Ditropopsis* E.A. Smith, 1897 is the oldest name among the subgenera of the gastropod genus and it is thus used instead of *Ditropis* sensu lato. A new replacement name *Ditropiphorus* nom. nov. is here given for *Ditropis* sensu stricto.

Key words: *Ditropis*, *Ditropiphorus* nom. nov., *Ditropopsis*, Cyclophoridae, Delphacidae, homonym, nomenclature

Ditropis Blanford, 1869, is a cyclophorid genus of operculate land snails. It was proposed as a subgenus of *Cyclophorus* for an Indian species, *C. (D.) planorbis* Blanford, 1869. Later on Kobelt (1902: 72-79) gave *Ditropis* full generic rank and reviewed 28 species from southwestern Asia to northern Australia. Wenz (1938: 455-456) assigned three subgenera to *Ditropis*: *Ditropopsis* E.A. Smith, 1897, *Diaspira* Soós, 1911 and *Ditropisena* Iredale, 1933. The systematic treatment by Wenz (1938) was followed by Zilch (1955: 193-195) and Vaught (1989: 15). *Ditropis* s. s. and *Ditropopsis* undoubtedly belong to the Cyclophoridae, judged from the characters of the radulae of their type species (Blanford, 1869; H. Fukuda & Ueshima, in preparation). However, *Ditropisena* should be transferred from the Cyclophoridae to the Assimineidae on the basis of various anatomical characters (Wada et al., 1996; H. Fukuda & Ueshima, in preparation). Recently I have become aware that *Ditropis* Blanford, 1869, is a junior homonym of *Ditropis* Kirschbaum, 1868 (Insecta: Heteroptera: Delphacidae). The latter name for insects has been used for small European insects by several recent entomologists (e.g. Kloet & Hincks, 1964; Logvinenko, 1972; Vickery & Nudds, 1991). In a molluscan volume of the Zoological Record (1987), a paper on the ecology of *Ditropis* by Gaston & Lawton (1987) was enumerated in the systematic index of the Cyclophoridae. However, *Ditropis* in Gaston & Lawson's work refers to Insecta.

Ditropis Blanford, 1869, should be rejected following ICZN Art. 53.2 and 56. *Ditropopsis* is the oldest name among the subgenera and, therefore, it has to be used for the present gastropod genus (sensu lato) instead of *Ditropis*. *Ditropis* sensu stricto has no known available synonym. Therefore, according to Art. 60.3, a new replacement name is proposed here.

Genus *Ditropopsis* E. A. Smith, 1897
 Subgenus **Ditropiphorus** nom. nov. [for *Ditropis* Blanford, 1869: 126
 (non Kirschbaum, 1868)]

Type species, by original designation: *Cyclophorus (Ditropis) planorbis* Blanford, 1869 (Blanford, 1869: 126, pl. 14 fig. 1).

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REFERENCES

- BLANFORD, W.T., 1869. Contribution to Indian malacology, X. Descriptions of new species of Cyclophoridae, of *Ennea* and *Streptaxis* from the hills of southern and south-western India. — Journal of the Asiatic Society of Bengal 2, Natural History 38: 125-143.
- GASTON, K.J., & J.H. LAWTON, 1987. A test of statistical techniques for detecting density dependence in sequential censuses of animal populations. — Oecologia 74: 404-410.
- KIRSCHBAUM, C.L., 1868. Die Cicadinen der Gegend von Wiesbaden und Frankfurt a. M. nebst einer Anzahl neuer oder schwer zu unterscheidender Arten aus anderen Gegenden Europa's. — Jahrbücher Nassauischer Verein für Naturkunde 21-22: 1-202.
- KLOET, G.S., & W.D. HINCKS, 1964. A checklist of British insects, second edition (revised). Part 1: Small orders and Hemiptera. — Handbooks for the Identification of British Insects 4: i-xv, 1-119. The Royal Entomological Society of London.
- KOBELT, W., 1902. Cyclophoridae. — Das Tierreich 16: i-xxxix, 1-662. Berlin.
- LOGVINENKO, V.N., 1972. New species of cicadas (Homoptera, Delphacidae) from the south of the USSR. — Vestnik Zoologii 6: 21-25.
- VAUGHT, K.C., 1989. A classification of the living Mollusca: i-xii, 1-196. Melbourne.
- VICKERY, W.L., & T.D. NUDDS, 1991. Testing for density-dependent effects in sequential censuses. — Oecologia 85: 419-423.
- WADA, K., M. NISHIHARA, T. FUROTA, S. NOJIMA, R. YAMANISHI, T. NISHIKAWA, S. GOSHIMA, T. SUZUKI, M. KATŌ, K. SHIMAMURA & H. FUKUDA, 1996. Present status of estuarine locales and benthic invertebrates occurring in estuarine environment in Japan. — WWF Japan Science Report 3: 1-182.
- WENZ, W., 1938. Gastropoda, Teil I: Allgemeiner Teil und Prosobranchia [part.]. In: O.H. SCHINDEWOLF, ed., Handbuch der Paläozoologie 6 (1, 2): 241-480. Berlin-Nikolassee.
- ZILCH, A., 1955. Die Typen und Typoide des Natur-Museums Senckenberg, 15: Mollusca, Cyclophoridae, Cyclophorinae-Cyclophoreae (2). — Archiv für Molluskenkunde 84: 183-210.