



### Notes on "A checklist of the Gyrinidae (Coleoptera: Adephaga) of Brazil" by Colpani *et al.* (2014)

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In a recently published paper on the Gyrinidae of Brazil (Colpani *et al.* 2014) a checklist of all known species from this country was given. This addition to the knowledge of Gyrinidae, based on literature published prior to 2012, comprises 206 species and subspecies and gives a complete account of the nomenclature for each taxon including synonyms and historical combinations. Additionally, the geographical distribution—both inside and outside of Brazil—of each species is provided. Although the authors have studied the literature (about 120 publications, most of them in French or German) very carefully, it was quite inevitable that some mistakes were made.

The aim of the present note is to point out these mistakes and present the necessary corrections for clarity and inclusion in future taxonomic works. It should be emphasised that simple typos, or easy to identify misspellings, or matters which are considered unimportant are not discussed. Some additional notes on *Gyrinus unidentatus* Dejean, 1821 and *Dineutus unidentatus* Aubé, 1838 are added.

We give our remarks on these mistakes in part in the order as they appear in the text, but in some cases it proved better to treat similar matters together. Page numbers from Colpani *et al.* (2014) are provided in bold.

#### Incorrect citations of taxa

- p. 187:** The line "*Epinectus sulcatus* (Wiedemann): Dejean 1833: 58 (nomen nudum)" must be replaced with "*Epinectus sulcatus* Dejean 1833: 58 (nomen nudum)". The specific name was previously published by Dejean in 1821 (p. 20) in combination with the generic name *Gyrinus* (this rare work was unknown to Colpani *et al.*). The original text is "Sulcatus. Dej. Brasilia." The name "Wiedemann" is not mentioned and no further comment is given in either of the Dejean works; thus, both names are nomina nuda and not available according to Article 12 of the ICZN (1999: 111 and the Glossary; see also Gustafson & Miller 2013: 97 for a discussion of the generic name *Epinectus*).
- p. 187:** *Enhydrus marginatus* Kempers, 1923: 74. Kempers (1923: 74) gave "*Porrhorynchus marginatus*" and "*Enhydrus sulcatus*", but nowhere *Enhydrus marginatus*. This mistake is due to Ochs (1965: 465) who mixed up both names by mistake.
- p. 187:** *Enhydrus tibialis* Régimbart, 1876: 215. The taxon was published on p. 233 and not on p. 215 of Régimbart (1876). The correct and complete citation is given in the "Literature cited".
- p. 187:** *Enhydrus (Epinectes) tibialis* Régimbart, 1877b: 107. This is a third description of *E. tibialis* Régimbart, 1876: 233. The name is not a nomen nudum, but a junior objective synonym and, additionally, a junior objective homonym of the latter. The second description is given in Régimbart, 1877a: ccxv.

#### Nomina nuda

Seven nomina nuda are given in Colpani *et al.* (2014). Four of them are correct: *Epinectus sulcatus* Dejean 1833: 58 (see above), *Cybister incisus* Dejean, 1833: 59, *C. marginellus* Dejean, 1833: 59, and *C. scitulus* Dejean, 1833: 59. The other three are not nomina nuda: *Dineutes marginatus* Ohaus, 1900: 226 is a nomen dubium, *Enhydrus (Epinectes) tibialis* is a