

# Addenda, Errata and Clarifications

for

Harpootlian, P. J. 2001. Scarab Beetles (Coleoptera: Scarabaeidae) of South Carolina. Biota of South Carolina. Vol. 2. Clemson University, Clemson, S.C.

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Since publication, the following errata, clarifications and updates have come to my attention as well as some suggested additions [I wish to thank A. Smith, M. Paulsen, A. Newton and A. Evans for many of these]. Some of these updates are due to nomenclatural changes used in American Beetles, Volume 2 (2002), many for the first time in a North American volume on Scarabs, including elevation of most subfamilies to family rank. In addition, ICZN Art. 12.2.5 which validates genera by 'indication' (simple inclusion of an available species) had not been applied for those names found in Dejean's catalogs (1821, 1833, 1836, 1837) since it wasn't common practice here [among Scarab workers anyway], nor was it possible to ensure that doing so wouldn't alter any currently accepted concepts (type species). Many of those names should probably be credited to him including; *Ochodaeus*, *Popillia*, *Strigoderma*, and *Macroactylus*. This is usually noted in the text (e.g. synonymy of *Ochodaeus* on page 48) and also see note after the Dejean (1821) citation on page 141.

I also wanted to take this opportunity to acknowledge the generous assistance of Tristao Branco with various items of nomenclature.

Andrew Smith's Scarab checklist has the latest nomenclature and is available on the web at: [www.museum.unl.edu/research/entomology/nearctic.htm](http://www.museum.unl.edu/research/entomology/nearctic.htm). This list contains combinations proposed after publication of American Beetles, Volume 2 (e.g. *Ataeniopsis*) and some earlier ones not usually used by North American workers (e.g. *Parataenius*).

Finally, Riley and Wolfe's (2003) recent checklist of Texas Scarabs includes numerous interesting range extensions; *Gnorimella maculosa* and *Aphodius brimleyi*!

## Page 25

The type species of *Aegialia* Latr. should more properly be cited as *Aphodius globosus* Illiger (= *S. arenaria* Fab.) by monotypy.

## Page 26

The type species of *Aphodius* Illiger should be *Aphodius fimetarius* Fab. (= *S. fimetarius* Linn.) as subsequently designated by Latreille 1810, not *S. fossor* Linn. as subsequently designated by Curtis 1824.

## Page 35

The New World Didactyliini, including the synonymy for *Aidophus parvus* has been revised (Dellacasa et. al 2002).

## Page 37

Replace *Saprosites* with *Hornietus* Stebnicka (only applies to *ventralis* – not the entire genus). This name was noted in the synonymy, but was published too late to be incorporated. This was used in American Beetles, Volume 2. This is clearly a valid genus and while it has characters normally associated with both the Eupariini and Aphodiini, I am of the opinion that it is a better fit in the Eupariini, as opposed the Aphodiini as suggested by Stebnicka. This will not key out properly to tribe (page 24) since it has an undivided pygidium (this feature is not normally visible in this species), but will key out to genus (page 36). The description and habitus photos should make identification easy.

## Page 48

The genus *Neochodaeus* Nikolayev was accepted by Carlson in American Beetles, Volume 2. I opted not to since the original paper, in my view, didn't place all species one would think should be included in the new genera. Nikolayev only placed our species *frontalis*, but probably should have also included *musculus* (M. Paulsen, pers comm.). This group still needs work.

## Page 53

The proposal to retain the genus *Bolboceras* was finally published by the ICZN (Jameson and Howden 2002). A note by myself in support of same was also published. If history is any indication, the final ruling may take years. Perhaps not surprisingly, *Bolboceras*, not *Odonteus* was used in American Beetle, Volume 2.

## Page 57

Remove "new synonym" after the combination *Geohowdenius egeriei* (Germar), Zunino. – only the genus *Geohowdenius* in the previous column should carry that notation. This is correctly noted in the introduction (page 56). (Thanks to A. Newton for this)

**Page 59**

Delete the citation “[not Cartwright and Gordon .. ]” following the main heading Ceratocanthinae Martinez. This could be misleading since their proposal was not a homonym as one might presume from use of the word “not”, just a later proposal as explained in the text. (Thanks to A. Newton for this)

**Page 66**

The author of the family group name based on *Melolontha* was credited to both MacLeay 1819 and Leach in Samouelle 1819 by Lawrence and Newton (1995) since publication priority hadn't been established. Samouelle predates MacLeay (Andrew Smith pers. comm.) so *Melolontha* should be credited to Leach in Samouelle (or just Samouelle depending on your interpretation of ICZN Art. 50.1.1, cited that way in American Beetles, Volume 2). I believe the requirements for attributing it to Leach in Samouelle were met.

**Page 72**

The original combination of *Serica vespertina* Gyllenhal. was *Melolontha vespertina* and since there is an accepted subspecies - replace with *Serica vespertina vespertina* (Gyllenhal).

**Page 95**

I haven't seen the reference, but the genus *Macroductylus* was evidently not made available by Latreille (1825), as is often cited. The indication by Dejean (1821) is probably the earliest valid use. The type species designation will need to be verified.

**Page 95**

The type species of *Hoplia* Illiger should be *Melolontha farinosa* Fab. (= *S. farinosus* Linn.) as subsequently designated by Latreille 1810 (only later by Medvedev 1952).

**Page 109**

*Tomarus* Erichson 1847 has priority over *Ligyris* Burmeister 1847 (Andrew Smith, pers comm.) and is used in American Beetles, Volume 2.

**Page 116**

Under the discussion of the genus *Stephanucha*; *Anatropis verticallis* actually has two clypeal teeth as opposed to none as stated. A better key to the genera would differentiate *Euphoria* and *Stephanucha* by the presence or absence of clypeal teeth period – delete reference to the number of teeth.

**Page 118**

I proposed three new synonyms of *Euphoria sepulcralis*. These were eastern US species included for SC in Kirk's checklist. Unbeknownst to me, those same Casey names, and many others, including

many western US species, were almost simultaneously being suppressed by Hardy (2001). Additionally, he recognized many subspecies. His paper has priority – so, while it appears that Hardy and I agree on these, my proposals don't constitute “new” synonyms.

**Page 119**

The type species of *Cremastocheilus* is *C. castaneae* Knoch, as subsequently designated by Latreille 1810 (Hardy (1991) suggested Casey 1915, but noted that it may not be the earliest).

**Page 130**

The present day location of Meredith should be Ashwood in Lee county, not Woodrow. Meredith was the name of the train station alongside the Ashwood plantation.

**Page 137**

The volume usually cited as Blanchard (1850) was in fact printed in two parts (Andrew Smith pers comm.), part 2 (pages 129-240) was published in 1851. For the SC fauna, the dates of six species (3 each *Diptotaxis* and *Phyllophaga*) need to be updated.

**Most pages along bottom edge**

The millimeter scale was drawn with great precision, but it sure didn't reproduce that way – use only as a rough guide. Seemed like a good idea at the time!

**Addendum**

In reviews of this volume, the absence of the other “Scarabs”: the Bess and Stag Beetles was noted. For reference, the following are also known from SC. The best key to the genera can be found in American Beetles, while species accounts can be found in Beetles of NE North America (Downie and Arnett 1996).

**SCARABAEOIDEA**

**LUCANIDAE**

*Lucanus capreolus* (Linnaeus 1763)

*Lucanus elaphus* Fabricius 1775

*Dorcus brevis* (Say 1825)

*Dorcus parallelus* (Say 1823)

*Platycerus virescens* (Fabricius, 1775)

*Nicagus obscurus* (LeConte 1847)

*Ceruchus piceus* (Weber 1801)

**PASSALIDAE**

*Odontotaenius disjunctus* (Illiger, 1800)

**References:**

**Arnett, R.H., Jr., M. C. Thomas, P. E. Skelley and J. H. Frank. (eds.). 2002.** American Beetles. Volume 2. Polyphaga: Scarabaeoidea through Curculionoidea. CRC Press LLC, Boca Raton, FL. xiv + 861 pp.

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**Downie, N. M., and R. H. Arnett, Jr. 1996.** The beetles of northeastern North America, Vols I & II. The Sandhill Crane Press, Gainseville. 1-1721.

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**Hardy, A. R. 2001.** Studies in the Euphoriina of the Americas (Coleoptera: Scarabaeidae) II. Status of names in *Euphoria*, types and synonymies, with notes on the South American species. *Pan-Pacific Entomologist* 77(3) 127-143.

**Harpootlian, P. J. 2002.** On the proposed precedence of *Bolboceras* Kirby, 1819 (July) (Insecta, Coleoptera) over *Odonteus* Samouelle, 1819. *Bulletin of Zoological Nomenclature* 59(4):280-281.

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