



## A new synonym of *Neomida luteonotata* (Pic, 1926) (Coleoptera: Tenebrionidae: Diaperini)

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The genus *Neomida* Latreille, 1829 (Tenebrionidae: Diaperini) comprises 42 species in the New World (Triplehorn, 2006). Species from America north of Colombia have been recently revised in detail by Triplehorn (2006), who additionally provided general notes on other New World representatives. One of these taxa was *Neomida luteonotata* (Pic, 1926). This species is easily recognized among its congeners by the unique elytral coloration, which consists of a large shield-shaped black spot in the middle and yellowish to reddish brown area around it. The area of the elytra covered by the median spot is highly variable within a single population. In some individuals it reaches the elytral sides, confining the light area to the bottom and apex of elytra.

*Hoplocephala luteonotata* was described by Pic (1926) based on a single specimen labelled “*Brasilia meridionalis*”. In 2006, Triplehorn transferred it to the genus *Neomida*. In the same paper, he synonymized *Hoplocephala huedepohli* Kulzer, 1961 with *N. luteonotata*. While working on his publication, Triplehorn had access to Pic’s holotype, but not to the holotype of *H. huedepohli*, therefore he proposed the above mentioned synonymy partly based on literature resources. Triplehorn (2006) also noted that *Hoplocephala atricollis* Kulzer, 1961 is probably another junior synonym of *N. luteonotata*. However, he didn’t have access to the holotype of *H. atricollis* and the information provided in the original description was insufficient for him to officially propose this synonymy.

The present investigation of the types of *Hoplocephala huedepohli* (Figs. 1–2) and *H. atricollis* (Figs. 3–4) resulted in confirmation that these names should be treated as junior synonyms of *N. luteonotata*.

The examined specimens are deposited in the collections of the Naturhistorisches Museum Basel (NMB), Basel, Switzerland and Coleção Entomológica do Laboratório de Sistemática e Biologia de Coleoptera (CELC), Viçosa, Brazil.

### *Neomida luteonotata* (Pic, 1926)

= *Hoplocephala luteonotata* Pic, 1926: 29; Gebien, 1939: 769; Blackwelder 1945: 527.

*Neomida luteonotata*: Triplehorn, 2006: 331.

= *Hoplocephala huedepohli* Kulzer, 1961: 214. (syn. by Triplehorn, 2006: 331).

= *Hoplocephala atricollis* Kulzer, 1961: 215 (not Pic, 1926); Triplehorn, 2006: 333. **syn. n.**

**Type material examined:** Holotype (NMB) of *Hoplocephala huedepohli* Kulzer, 1961 (Figs. 1–2) labelled: “Foz de Iguassu [sic] 1.59 Hüedepohl leg.\ BRASILIEN\ HOLOTYPUS [printed in red] *Hoplocephala hüedepohli* [sic] det. H. Kulzer 1961”.

Holotype (NMB) of *Hoplocephala atricollis* Kulzer, 1961 (Figs. 3–4) labelled: “S Catharina [sic] Nova Teutonia \ F. Plumann leg 22.1.34\ HOLOTYPUS [printed in red] *Hoplocephala atricollis* det. H. Kulzer 1961”.

**Other material examined:** 45 specimens (CELC) from BRAZIL, states of Minas Gerais, Espírito Santo, Rio de Janeiro, Goiás and Santa Catarina.

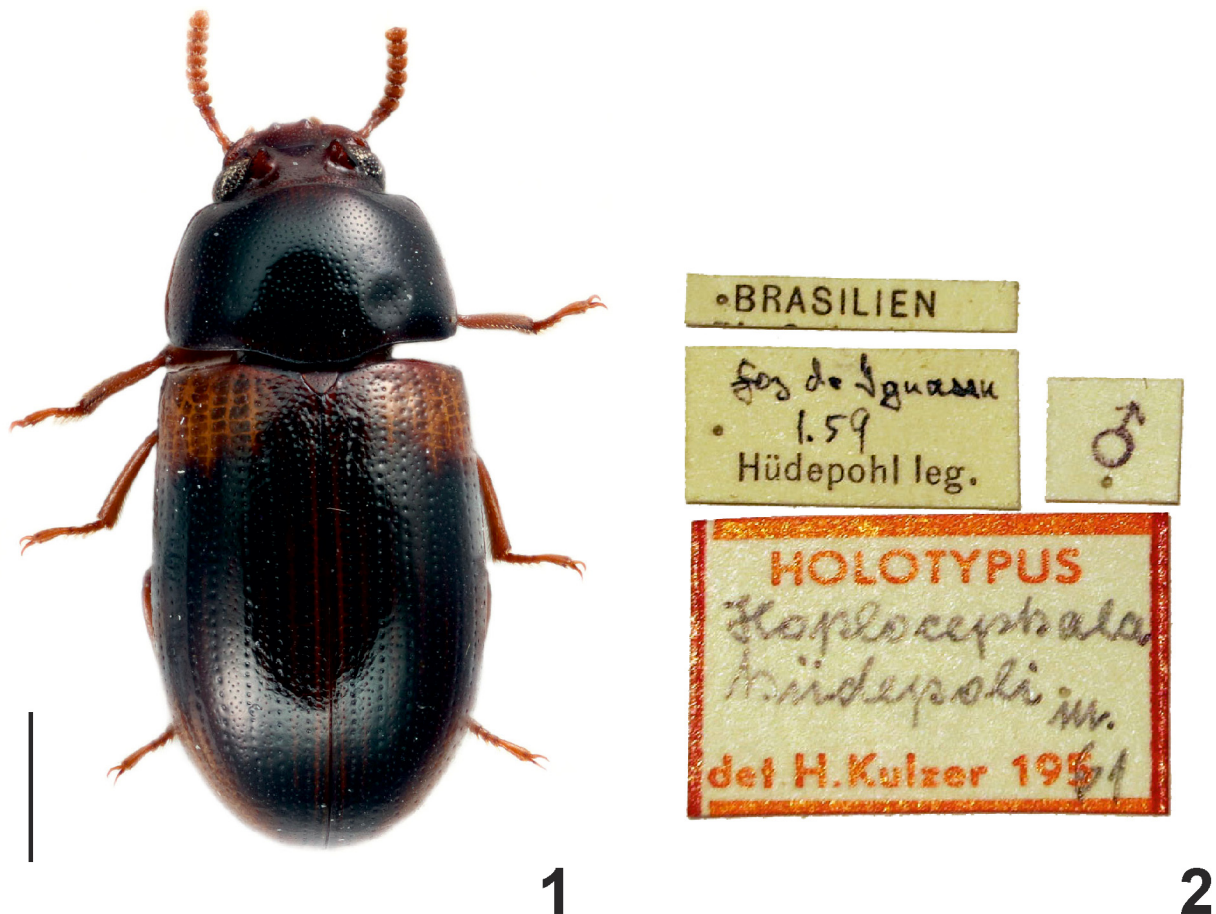
**Distribution:** Brazil, French Guiana, Bolivia, Paraguay, Suriname, and Argentina (Triplehorn, 2006).

## Acknowledgements

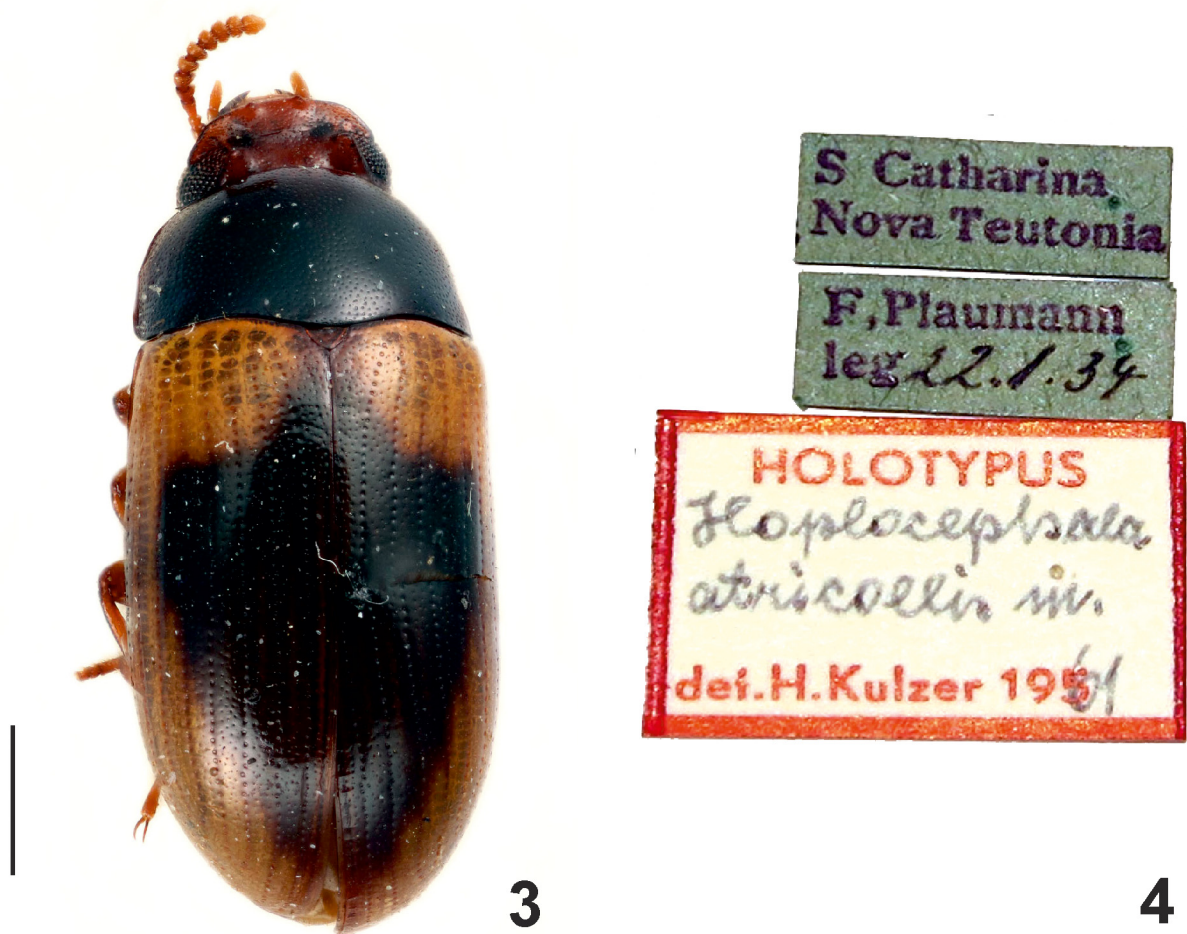
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## References

- Blackwelder, R.E. (1945) Checklist of the coleopterous insects of Mexico, Central America, the West Indies, and South America. Part. 3. *United States National Museum Bulletin*, 185, 343–550.
- Gebien, H. (1939) Katalog der Tenebrioniden. *Mitteilungen der Münchner Entomologischen Gesellschaft*, 29, 443–474, 739–770.
- Kulzer, H. (1961) Neue Tenebrionidaen aus Südamerika (Col.). *Entomologische Arbeiten aus dem Museum G. Frey*, 12, 205–234.
- Pic, M. (1926) Nouveautés diverses. *Mélanges Exotico-Entomologiques*, Fasc. 46, 1–32.
- Triplehorn, C.A. (2006) Studies in Neotropical *Neomida*: A synopsis of the genus *Neomida* (Coleoptera: Tenebrionidae: Diaperini) from America north of Colombia with notes on other western hemisphere species. *Proceedings of the Entomological Society of Washington*, 108 (2), 312–334.



**FIGURES 1–2.** *Hoplocephala huedepohli* Kulzer, 1961 holotype. **1** Dorsal habitus; **2** Labels. Images by Matthias Borer (NHMB). Scale bar = 1mm.



FIGURES 3–4. *Hoplocephala atricollis* Kulzer, 1961 holotype. 3 Dorsal habitus; 4 Labels. Images by Matthias Borer (NHMB). Scale bar = 1mm.