

Case 3422***Helops* Fabricius, 1775 (Insecta, Coleoptera, TENEBRIONIDAE): proposed conservation of usage by designation of *Tenebrio caeruleus* Linnaeus, 1758 as the type species**

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Abstract. The purpose of this application, under Article 70.2 of the Code, is to conserve the current usage of the widely used name *Helops* Fabricius, 1775 for a genus of tenebrionid beetles from Western Palaearctic, Nearctic and Neotropical Regions by designation of *Tenebrio caeruleus* Linnaeus, 1758 as the type species. The type species of *Helops* Fabricius, 1775 is at present *Tenebrio lanipes* Linnaeus, 1771 (currently *Stenomax lanipes*). The use of the original designation would seriously affect the nomenclatural stability of long-recognized generic and subtribal concepts in the tribe HELOPINI. It is proposed that all type fixations for the nominal genus *Helops* Fabricius, 1775 before that of *Tenebrio caeruleus* Linnaeus, 1758 by Hope (1840) be set aside.

Keywords. Nomenclature; taxonomy; Coleoptera; TENEBRIONIDAE; HELOPINI; HELOPINA; CYLINDRINOTINA; *Helops*; *Stenomax*; *Anteros*; *Helops lanipes*; *Tenebrio caeruleus*; darkling beetles; Western Palaearctic, Nearctic and Neotropical Regions.

1. Fabricius (1775, p. 257) introduced the generic name *Helops* for the following nine available species: *Tenebrio caeruleus* Linnaeus, 1758, *T. lanipes* Linnaeus, 1771, *Helops serratus* Fabricius, 1775, *H. equestris* Fabricius, 1775, *H. rufipes* Fabricius, 1775, *H. luridus* Fabricius, 1775, *H. ater* Fabricius, 1775, *T. quisquilius* Linnaeus, 1761 and *H. glaber* Fabricius, 1775. No type species was originally designated. Of these, only *Tenebrio caeruleus* Linnaeus, 1758 (p. 418) currently remains in *Helops*, which is the type genus of the tribe HELOPINI Latreille, 1802 and subtribe HELOPINA Latreille, 1802.

2. Latreille (1810, p. 429) subsequently designated *Tenebrio lanipes* Linnaeus, 1771 (p. 533) as the type species of *Helops* Fabricius, 1775. Latreille's type fixation was

overlooked by subsequent tenebrionid workers until Iablokoff-Khnzorian (1964) recognized that this was the first valid type species designation. *Tenebrio lanipes* Linnaeus, 1771 is a junior subjective synonym of *Tenebrio aeneus* Scopoli, 1763 (currently *Stenomax* (*Stenomax*) *aeneus*; tribe HELOPINI, subtribe CYLINDRINOTINA Español, 1956); synonymy by Schawaller (1995). *Tenebrio lanipes* Linnaeus, 1771 was designated as the type species of *Stenomax* Allard, 1876 by Cherney (2005, p. 387).

3. Westwood (1838, p. 32) designated *Helops caraboides* Panzer, 1794 (a common European species) as the type species of *Helops*. This designation was later accepted by Blanchard (1844, plate 51, fig. 9), Duponchel (1845, p. 524) and other authors. This species was not originally included in the genus *Helops* by Fabricius (1775), and therefore cannot be used as the type species (Article 67.2 of the Code). *Helops caraboides* Panzer, 1794 is a junior subjective synonym of *Tenebrio laevioctostriatus* Goeze, 1777 (currently *Nalassus* (*Nalassus*) *laevioctostriatus* (Goeze, 1777); tribe HELOPINI, subtribe CYLINDRINOTINA).

4. Hope (1840, p. 133) subsequently designated *Tenebrio caeruleus* Linnaeus, 1758 as the type species of *Helops* Fabricius, 1775. Gebien (1943, p. 416) also used *Tenebrio caeruleus* as the type species of *Helops* in the most recent catalogue of the world TENEBRIONIDAE.

5. Acceptance of the first valid type species fixation by Latreille (1810) would seriously affect the nomenclatural stability of long-recognized generic and subtribal concepts in the tribe HELOPINI. *Helops* Fabricius, 1775 would take priority over *Stenomax* Allard, 1876 as a senior objective synonym and species currently in *Helops* would be referred to the junior synonym *Anteros* Laporte, 1840 (p. 235). The type species of *Anteros* Laporte, 1840 is *Helops chalybaeus* Latreille, 1804, a junior subjective synonym of *Helops caeruleus* (Linnaeus, 1758). *Anteros* Laporte, 1840 is a junior homonym of *Anteros* Hübner, 1819 (p. 77) (Lepidoptera) and a senior homonym of *Anteros* Blanchard, 1845 (Coleoptera, CERAMBYCIDAE). Therefore a new name would be necessary for the species presently in the genus *Helops*, typified by *Tenebrio caeruleus* Linnaeus, 1758. Additionally, the subtribe HELOPINA would replace CYLINDRINOTINA and the junior synonym ENOPLOPINA Solier, 1848 would replace HELOPINA. It is for this reason that the proposal by Iablokoff-Khnzorian (1964) to use *H. lanipes* as the type species of *Helops* has been disregarded by subsequent workers while the concepts of Hope (1840) and Gebien (1943) remain in current usage (Español, 1974; Español & Comas, 1989; Nabozhenko, 2001, 2006; Aalbu et al., 2002a, b). A ruling by the Commission is necessary to maintain the current concept of the diverse, well-known and widespread tenebrionid genus *Helops* Fabricius, 1775.

6. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary power to set aside all type fixations of for the nominal genus *Helops* Fabricius, 1775 before that of *Tenebrio caeruleus* Linnaeus, 1758 by Hope (1840);
- (2) to place on the Official List of Generic Names in Zoology the name *Helops* Fabricius, 1775 (gender: masculine), type species *Tenebrio caeruleus* Linnaeus, 1758 by the fixation of Hope (1840) as ruled in (1) above;
- (3) to place on the Official List of Specific Names in Zoology the name *caeruleus* Linnaeus, 1758 as published in the binomen *Tenebrio caeruleus* (specific name of the type species of *Helops* Fabricius, 1775).

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