Case 2614

Vipio Latreille, 1804 (Insecta, Hymenoptera): proposed designation of Agathis longicauda Boheman, 1853 as the type species

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Abstract. The purpose of this application is to designate *Agathis longicauda* Boheman, 1853 as the type species of the braconid genus *Vipio* Latreille, 1804, and so maintain the current usage of *Cremnops* Foerster, 1862 and *Vipio*. These genera are based respectively on *Ichneumon desertor* Linnaeus, 1758 and on a misidentification of Linnaeus's species by Fabricius.

1. Conflicting opinions have recently been published (van Achterberg, 1982; Nixon, 1986) regarding the placement of the genera *Cremnops* Foerster, 1862 and *Vipio* Latreille, 1804 (Hymenoptera, BRACONIDAE). The literature of the 19th century (Dalla Torre, 1898, pp. 137–138, 302–303) demonstrates clearly that *Ichneumon desertor* Linnaeus, 1758 and *I. desertor* sensu Fabricius, 1775 have been traditionally regarded as different species. The genera based on them, *Cremnops* Foerster, 1862 and *Vipio* Latreille, 1804 respectively, have been maintained in different subfamilies for over 100 years. Both *Vipio* and *Cremnops* are well established names with a long history of usage, and *Vipio* is the type genus of the family-group name VIPIONIDAE Viereck, 1916 (p. 181).

2. Linnaeus (1758, p. 563) described *Ichneumon desertor* from 'Europa'. The identity of *desertor* Linnaeus (a member of the AGATHIDINAE) is based on the female holotype in the collections of the Linnean Society, London (Roman, 1932, p. 5; Nixon, 1986, p. 192).

3. Fabricius (1775, p. 334; [1804], p. 102) presented an identical description of *Ichneumon desertor*, citing Linnaeus and also figures by Schaeffer ([1766]–1769–[1779], pl. 20, figs. 2, 3) immediately following this description. The reference to Schaeffer's figures, which do not match *desertor* Linnaeus, is the basis for the assumption by subsequent authors that Fabricius misidentified *desertor* Linnaeus. After examining the Fabricius collection in Copenhagen, van Achterberg (1982, p. 136) stated that more than one species and genus were mixed under the name '*desertor* Fabricius'.

4. Latreille (1804, p. 173) described the genus *Vipio*. He included three nominal species, *desertor*, *urinator* and *denigrator*, attributing authorship of all three to Fabricius. Latreille's (1804) description of *Vipio*, with the elongate labio-maxillary

complex and depression above the mandibles, clearly fits *desertor* sensu Fabricius (para. 3 above), but not *desertor* Linnaeus.

5. Fabricius ([1804], p. 102) included 'desertor' (sensu Fabricius) in his new genus Bracon. Spinola (1808, p. 101), noting that the desertor of Fabricius (1775) was not the same as the desertor of Linnaeus (1758), renamed desertor Linnaeus as Bracon deflagrator, although the Linnaeus species had priority. Nees von Esenbeck (1812, p. 199) placed deflagrator Spinola in Agathis Latreille, 1804 (p. 173). All subsequent authors have treated desertor Linnaeus as generically distinct from the species which Fabricius called desertor. Foerster (1862, p. 246) designated Agathis deflagrator (with authorship incorrectly attributed to Nees von Esenbeck) as the type species of his new genus Cremnops. Bradley (1919, p. 59, footnote) renamed the Fabrician species desectus.

6. Foerster (1862, p. 235) designated 'Bracon desertor F.' as the type species of Vipio Latreille. It is obvious from Foerster's description that he was dealing with a member of the BRACONINAE. Spinola (1808, p. 109) treated Ichneumon denigrator Fabricius, 1775 and Ichneumon impostor Scopoli, 1763 as synonyms. The latter is the type species of Iphiaulax Foerster, 1862. However, denigrator Fabricius is a misidentification of denigrator Linnaeus, 1758, the type species of Atanycolus Foerster, 1862. Ichneumon urinator Fabricius, 1798 is the type species of Rostrobracon Tobias, 1957, a subgenus of Bracon Fabricius, [1804]. Thus all three species originally included in Vipio by Latreille (1804) are members of the BRACONINAE but are now placed in distinctly different genera.

7. Following Szépligeti (1904, p. 15), most Palaearctic workers placed desertor sensu Fabricius in Glyptomorpha Holmgren, 1868. This appears to be the first major application of the name Glyptomorpha to Old World species. Separation of Vipio from Glyptomorpha by Szépligeti (1904, p. 10) and others (Fahringer, 1925, p. 22; Tobias, 1971, pp. 73, 82) was based on the treatment of Ichneumon nominator Fabricius, 1793 (not Ichneumon nominator Fabricius, 1787) as the type species of Vipio (see, for example, Fahringer, 1928b, p. 24). The placement of nominator sensu 1793 in Vipio was based on Latreille (1805, p. 176), but Latreille did not include nominator in Vipio in his 1804 publication (see para. 4). Ichneumon nominator Fabricius, 1793 (p. 155) is a junior primary homonym of Ichneumon nominator Fabricius, 1787 (p. 265; 1793, p. 158) and is therefore an invalid name. The senior homonym is the valid name for a South American ichneumonid of which the type specimen is extant (see Townes & Townes, 1966, p. 239). Ichneumon nominator Fabricius, 1793, the junior homonym, has never to our knowledge been renamed. Agathis longicauda Boheman, 1853 (p. 178) is the oldest available subjective synonym of nominator sensu 1793 (see Fahringer, 1928a, p. 575); the holotype is in the Boheman collection in Stockholm. Boheman's paper, which included his new name longicauda, was listed by the Royal Society catalogue of scientific papers (1867, p. 455) as appearing in the Kongliga Vetenskaps-Akademiens Handlingar in 1851, and by Hagen (1862, p. 63) and Horn & Schenkling (1928, p. 96) as appearing in 1852. The volume of the periodical is for the year 1851, the paper was submitted ('inlemnad den 6 Mars 1852', p. 53) in 1852 and published in 1853.

8. Van Achterberg (1982, p. 136) argued that '...nomenclatorily Ichneumon desertor Fabricius is actually I. desertor Linnaeus, 1758...', and that Vipio Latreille, 1804 is thus a senior synonym of Cremnops Foerster, 1862. Van Achterberg did not

mention Schaeffer's figures included in Fabricius's diagnosis of *desertor* and in his argument he ignored the Code, which requires (Article 70b) the case to be referred to the Commission. The result is that *Vipio*, a name previously associated only with the BRACONINAE (or VIPIONINAE), is being used by some authors instead of *Cremnops*, a name associated for the last 45 years with the subfamily AGATHIDINAE.

9. Nixon (1986, pp. 191–192) rejected the synonymy proposed by van Achterberg (1982) on the basis that *desertor* sensu Fabricius is radically different from *desertor* Linnaeus, the type species of *Cremnops*. Nixon (1986) therefore retained *Cremnops* in the AGATHIDINAE and *Vipio* in the BRACONINAE.

10. Since its description in 1862, *Cremnops* Foerster has been used almost universally in a stable sense. Shenefelt (1970, pp. 382–391) lists 92 references for 59 authors and 55 species. The only exception to the application of the name *Cremnops* in the braconid subfamily AGATHIDINAE is a group of American authors (for example, Morrison, Viereck and Muesebeck) who followed Viereck (1914, pp. 23, 37) and treated *Bracon* Fabricius, [1804] as a senior synonym of *Cremnops* between 1914 and 1945, when *Bracon* was defined by the designation of *Ichneumon minutator* Fabricius, 1798 as the type species (Opinion 162, June 1945).

11. Bradley (1919) renamed desertor sensu Fabricius (see para. 5), but several older names were already available as junior subjective synonyms (Shenefelt, 1978; van Achterberg, 1982). The oldest synonym for which we have been able to locate a type specimen is Pseudovipio intermedia Szépligeti, 1901 (p. 179) (not Vipio intermedius Szépligeti, 1896) (see Papp, 1960, p. 371). Pseudovipio intermedia is included in the genus Glyptomorpha Holmgren, 1868 (type species G. ferruginea Holmgren, 1868), as interpreted by Szépligeti (1904) and Quicke (1987, p. 85). Although the most recent catalog of the BRACONINAE (Shenefelt, 1978) lists Glyptomorpha as a subjective synonym of Vipio, braconid workers are in general agreement that the taxa involved are separable at least at the subgeneric level. Further, Glyptomorpha is perhaps the most widely used of the names (van Achterberg, 1987, pers. comm.) and includes many Palaearctic and Afrotropical species. It is also the type genus of a family-group name. Until van Achterberg's 1982 paper, Vipio has been used by most workers in the sense of Szépligeti (1904) with Ichneumon nominator Fabricius, 1793 taken to be the type species. Vipio has also been used by all North American authors since the 1940's for a group of nine nominal species occurring in the Nearctic region. It is therefore crucial to select from the central European fauna an identifiable nominal species as the type species for Vipio. Selection of Pseudovipio intermedia Szépligeti, 1901 as the type species would render Glyptomorpha Holmgren, 1868 a junior subjective synonym of Vipio Latreille, 1804 and require the use of Isomecus Kriechbaumer, 1895 (p. 11) as the oldest available synonym in place of Vipio auctt. (van Achterberg, 1982; Quicke, 1987). Prior to van Achterberg (1982) Isomecus had not been used in the primary literature since its original description. We therefore do not favour this course. Selection of Agathis longicauda Boheman, 1853, a junior subjective synonym of the invalid Ichneumon nominator Fabricius, 1793, preserves the stability and uniformity of usage of both Vipio and Glyptomorpha followed by most authors for the last 87 years and retains Vipio in the BRACONINAE. A representative list of 10 references dating from 1910 to 1989, which demonstrate usage of Vipio in the sense of nominator Fabricius, 1793 as the type species, is held by the Commission Secretariat. The references include Papp (1971), Marsh, Shaw & Wharton (1987) and Quicke & Sharkey (1989).

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

- to use its plenary powers to set aside all previous fixations of type species for the nominal genus *Vipio* Latreille, 1804, and to designate *Agathis longicauda* Boheman, 1853 as the type species;
- (2) to place on the Official List of Generic Names in Zoology the name Vipio Latreille, 1804 (gender: masculine), type species by designation in (1) above Agathis longicauda Boheman, 1853;
- (3) to place on the Official List of Specific Names in Zoology the name *longicauda* Boheman, 1853, as published in the binomen *Agathis longicauda* (specific name of the type species of *Vipio* Latreille, 1804).

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