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Brahmaea Walker, 1855 (Insecta, Lepidoptera): proposed confirmation of Bombyx certhia Fabricius, 1793 as the type species

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Abstract. The purpose of this application is to confirm that the nominal type species of the moth genus *Brahmaea* Walker, 1855 is *Bombyx certhia* Fabricius, 1793. Walker misidentified this species when describing *Brahmaea*, but the genus has been interpreted in the sense of *B. certhia* being the type.

- 1. The generic name Brahmaea Walker (1855 [November 10], p. 1200) was established in a key to genera; it is the type genus of BRAHMAEIDAE Swinhoe (1892, p. 253). There were no included nominal species but Walker (1855 [December 8], p. 1316) subsequently included two species, the first one cited being Bombyx certhia Fabricius (1793, p. 412). Butler (1880, p. 188) showed that Walker had misidentified the specimens and for Brahmaea certhia (Fabricius) sensu Walker (1855) he established the name Brahmaea conchifera Butler, 1880. B. conchifera is a junior subjective synonym of Bombyx wallichii Gray (1831, p. 39).
- 2. The first designation of type species for *Brahmaea* Walker, 1855 was by Kirby (1892, p. 724) who cited *B. conchifera* Butler, 1880 and placed '*B. Certhia*, Walk. I[oc]. c[it]. p. 1316 n. 1 (1855)' in its synonymy. This designation is invalid since *B. conchifera* was not an originally included nominal species and '*B. certhia* Walker' is a misidentification.
- 3. Hampson ([1893], p. 29) designated 'B. certhia Fabr., from China' as type species; this is the true B. certhia Fabricius, 1793. An investigation in 1988 by Miss P. Gilbert in the library of The Natural History Museum, London, revealed that Hampson's book was not received by the library before 5 April 1893, and 1893 may be taken as the year of publication.
- 4. Until 1930, B. certhia and B. wallichii (i.e. B. conchifera) were included in Brahmaea, without subgenera. Then Brahmophthalma Mell (1930, p. 346) (type species Bombyx wallichii Gray, 1831, by designation by Bryk (1949, p. 20)), was established to denote a subgenus of Brahmaea. Mell included the true certhia Fabricius in Brahmaea (Brahmaea).
- 5. Since 1930, virtually all authors followed Mell's concept that the type species of *Brahmaea* was the true *certhia* Fabricius, i.e. they have followed Hampson's [1893] designation (para. 3). Bryk (1949, pp. 20–26) was aware of the misidentification of the

type species of *Brahmaea*, but expressly followed Mell's concept to retain stability. Bryk gave *Brahmophthalma* Mell full generic status and established two more genera. *Brahmaeops* and *Brahmidia*, for species included in *Brahmophthalma* Mell. This act of splitting was accepted by Sauter (1967, pp. 125–129) when describing a new genus for the only European species of the family, and some of the most recent authors (e.g. Barlow, 1982) followed this. In contrast, Inoue et al. (1982) synonymized Mell's and Bryk's genera with *Brahmaea* Walker, but this does not, in our opinion, reflect the relationships within the group sufficiently.

6. Fletcher & Nye (1982, p. 25) cited B. conchifera as the type species of Brahmaea Walker, 1855, together with the relevant bibliographic information concerning the misidentification of certhia by Walker. Fletcher & Nye stated that this case of a

misidentified type-species should be referred to the Commission.

7. Sauter (1987, pp. 262–271), in the only systematic paper on the BRAHMAEIDAE published since Fletcher & Nye (1982), followed the generic concepts of Mell and of Bryk by accepting the true certhia Fabricius as type species of Brahmaea. Sauter was aware of the problems and again wanted to retain stability of use. In a forthcoming revision of the family by Nässig it is intended to follow Mell's concept (see also Nässig & Paukstadt, 1990).

- 8. In order to obtain stability in the usage of the nominal genus *Brahmaea*, and following Article 70b of the Code, the International Commission on Zoological Nomenclature is asked:
- (1) to confirm the designation by Hampson ([1893]) of *Bombyx certhia* Fabricius, 1793, as the type species of *Brahmaea* Walker, 1855;
- (2) to place on the Official List of Generic Names in Zoology the name *Brahmaea* Walker, 1855 (gender: feminine), type species by designation by Hampson ([1893]) *Bombyx certhia* Fabricius, 1793 as confirmed in (1) above:
- (3) to place on the Official List of Specific Names in Zoology the name certhia Fabricius, 1793, as published in the binomen Bombyx certhia (specific name of the type species of Brahmaea Walker, 1855).

(1892, p. 724) who cited B. conchifera Butler, 1830 and placed 'B. Certhia, Walk,

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OPINION 1698

Brahmaea Walker, 1855 (Insecta, Lepidoptera): Bombyx certhia Fabricius, 1793 confirmed as the type species

Ruling

- (1) It is hereby confirmed that the nominal species *Bombyx certhia* Fabricius, 1793, designated by Hampson ([1893]), is the type species of the nominal genus *Brahmaea* Walker, 1855.
- (2) The name Brahmaea Walker, 1855 (gender: feminine), type species by subsequent designation by Hampson ([1893]) Bombyx certhia Fabricius, 1793, as confirmed in (1) above, is hereby placed on the Official List of Generic Names in Zoology.
- (3) The name certhia Fabricius, 1793, as published in the binomen Bombyx certhia (specific name of the type species of Brahmaea Walker, 1855), is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2737

An application for the confirmation of Hampson's ([1893]) designation of Bombyx certhia Fabricius, 1793 as the type species of Brahmaea Walker, 1855 was received from Drs W.A. Nässig (Zoologisches Institut der Universität, Frankfurt, Germany) and I.W.B. Nye (South Nutfield, Surrey, U.K.) on 16 August 1989. After correspondence the case was published in BZN 48: 137-139 (June 1991). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 March 1992 the members of the Commission were invited to vote on the proposals published in BZN 48: 138. At the close of the voting period on 1 June 1992 the votes were as follows:

Affirmative votes — 29: Bayer, Bock, Bouchet, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Heppell, Holthuis, Kabata, Kraus, Lehtinen, Macpherson, Mahnert, Martins de Souza, Minelli, Nielsen, Nye, Ride, Savage, Schuster, Starobogatov, Štys, Thompson, Trjapitzin, Uéno, Willink

Negative votes - none.

Original references

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

Brahmaea Walker, 1855, List of the specimens of lepidopterous insects in the collection of the British Museum, vol. 5, p. 1200.

certhia, Bombyx, Fabricius, 1793, Entomologia systematica emendata et aucta, vol. 3, part 1, p. 412.

The following is the reference for the designation of Bombyx certhia Fabricius, 1793 as the type species of the nominal genus Brahmaea Walker, 1855:

Hampson, G.F. [1893]. The fauna of British India, including Ceylon and Burma, moths, vol. 1, p. 29.