

**A Preliminary Annotated Checklist of the  
Brahmaeidae of the World – Part IC –  
1<sup>st</sup> Supplement: *Brahmaea (Brahmophthalma)*  
*sinica* HAO, ZHANG & YANG, 1998 of the *wallichii*-  
group (Lepidoptera: Brahmaeidae)**

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**Zusammenfassung:** Der folgende Beitrag zur Kenntnis der Familie Brahmaeidae SWINHOE, 1892 (Lepidoptera) ist Teil der Serie „*Brahmaeidae of the World*“, die nach Fertigstellung eine möglichst vollständige Übersicht über diese Familie geben sollte. Neue Erkenntnisse und neue Namen wurden eingearbeitet soweit sie bis zur Drucklegung aus der Literatur bekannt und uns zugänglich waren. Der 1. Supplement von Teil IC befasst sich speziell mit der chinesischen *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998, einem Taxon von dem mehrere Beschreibungen existieren. Diese Analyse der Familie Brahmaeidae soll nicht als Revision sondern als Arbeitsgrundlage für weitere Studien zur Familie Brahmaeidae SWINHOE, 1892 verstanden werden.

**Summary:** The following contribution to knowledge the family Brahmaeidae SWINHOE, 1892 (Lepidoptera) is part of the series "*Brahmaeidae of the World*", which should give a complete overview of this family after completion. New results of studies and new names were incorporated as far as they were known from the literature up to the time of printing and were accessible to us. The 1<sup>st</sup> supplement of Part IC deals specifically with the Chinese *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998, a taxon of which several descriptions exist. This analysis of the Brahmaeidae family should not be understood as a generic revision but as a working basis for further studies on the family Brahmaeidae SWINHOE, 1892.

**Remarks:** as already assumed by Paukstadt & Paukstadt (2021) Beiträge zur Kenntnis der wilden Seidenspinner, 19 (3), pp. 83-115, the Chinese taxon *B. (Brahmophthalma) sinica* was validly described as a new species in different journals in 1998 and 2000 (: 112). Priority has got the name *sinica* HAO, ZHANG & YANG, 1998 (*Brahmophthalma*) followed by the junior objective synonym and junior primary homonym *sinica* HAO, ZHANG & YANG, 2000 (*Brahmophthalma*) which is a re-description obviously based on the same specimen. Further older descriptions could exist if citations in the Chinese literature do not turn out to be incorrect.

## *Brahmaea* (*Brahmophthalma*)

### *sinica* HAO, ZHANG & YANG, 1998 (*Brahmophthalma*)

**Original citation and spelling:** *Brahmophthalma sinica* sp. nov.

**Original description:** Hao Huiling, Zhang Xiurong & Yang Jikun (1998): Two new species of Brahmaeisae [sic] from China (Lepidoptera: Brahmaeidae). – Journal of Jilin Forestry University, Vol. 14 (3) (Jul. 1998): pp. [155]-156, 2 figs. [English abstract p. 156].

**Remarks:** Hao, Zhang & Yang (2002: 54) cited *B.[Brahmophthalma] sinica* ZHANG & HAO and Zhang, Hao & Yang (1999: 37-42) cited *Bth. [Brahmophthalma] sinica* ZHANG & HANG, 1996. The appropriate publications were not found so far. This taxon obviously has been published under the same name in different journals. Quotations in Chinese papers suggest that further descriptions could exist with different authorship or can be based on errors.

**Type locality:** [China,] Shaanxi Province, Duleimen, Taibai Mountain, 1,780 m.

**Type material:** the description most probably based on the ♂ holotype by original designation. The ♂ holotype is preserved in the Specimen Room of the Plant Protection Teaching and Research Section of the Agricultural and Animal Husbandry University of the Chinese People's Liberation Army [Google translation] [PLA University of Agricultural and Animal Sciences, Changchun, Jilin 130062, China, cf. the re-description of the year 2000].

**Taxonomic notes:** the name *sinica* HAO, ZHANG & YANG, 2000 [sic] was listed in Kitching, I.J., Rougerie, R., Zwick, A., Hamilton, C.A., St Laurent, R.A., Naumann, S., Ballesteros Mejia, L. & Kawahara, A.Y. (2018): A global checklist of the Bombycoidea (Insecta: Lepidoptera); published online 2018 Feb 12. doi: 10.3897/BDJ.6.e22236.

**Synonyms:** for misinterpretations see the appropriate text parts. Junior subjective synonyms, junior objective synonyms, errors and incorrect subsequent spellings for *sinica* HAO, ZHANG & YANG, 1998 are as follows:

*sinica* ZHANG & HANG, 1996; Zhang, Hao & Yang (1999: 41) [error in authorship? and error in publication date?]

*sinica* HAO, ZHANG & YANG, 2000; STATUS-; **syn. nov.**, junior objective synonym and junior primary homonym

*sinica* ZHANG & HAO; Hao, Zhang & Yang (2002: 54, 55) [error in authorship?]

**Remarks:** citations in Chinese literature are somehow confusing since English abstracts are short or even lacking. Translations prepared with the internet translator Google are often not translating the complete text but fragments only. This makes an objective

evaluation of Chinese entomological literature difficult. This taxon might be published several times under the same name in different journals and under different combinations of authors. Further studies and translations are considered needed.

**Hybridizations:** inter-generic and inter-specific pairings with *sinica* HAO, ZHANG & YANG, 1998 are unknown from literature.

### Further readings on *sinica* HAO, ZHANG & YANG, 1998

Hao, Zhang & Yang (1998) Journal of Jilin Forestry University, Vol. 14 (3) (Jul. 1998): pp. [155]-156, 2 figs. [English abstract p. 156] validly described *Brahmophthalma sinica* HAO, ZHANG & YANG, 1998. The authors noted that this species is similar *Brahmophthalma wallichii* (GRAY) (: 156).

**Remarks:** text in Chinese, a very short English abstract is present.

Zhang, Hao & Yang (1999) J. China Agricult. Univers., 1999, 4 (5), pp. [37]-42; presented an overview on the Chinese brahmids. The authors recognized four genera in the family Brahmaeidae of China. One of those has been the genus *Brahmophthalma* MELL with the species *Brahmophthalma wallichii* GRAY, 1831 [sic] and *Bth.* [*Brahmophthalma*] *sinica* ZHANG & HANG, 1996 [sic?].

**Remarks:** text in Chinese with English summary. Unfortunately, a lot of misspellings of the taxa names have found their way into above publication.

The name *Brahmophthalma sinica* ZHANG & HANG, 1996 as cited in Zhang, Hao & Yang (1999: 41) was not found in literature and therefore might be an erroneous citation.

Zhang & Hang (1996) are not even listed in the “References” of this work.

Hao, Zhang & Yang (2000) [i.2000] Acta Zootaxonomica Sinica; Vol. 25, No. 1, 2000: pp. 90-93, placed *wallichii* (GRAY) [sensu Bryk 1949: Arkiv För Zoologie, 41 (A) 1] and the new species *Brahmophthalma sinica* HAO, ZHANG & YANG, 2000 in the genus *Brahmophthalma* MELL, 1928.

**Remarks:** the same authors already validly described *Brahmophthalma sinica* HAO, ZHANG & YANG, 1998 in the Journal of Jilin Forestry University, Vol. 14 (3), pp. [155]-156.

*B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000 is a junior objective synonym and a junior primary homonym of *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998.

Hao, Zhang & Yang (2002) [vii.2002] Acta Entomologica Sinica, 2002, 45 (Suppl.), 2002, pp. [53]-55, compared the new species *Brahmophthlma* [sic] *litsera* with *Brahmophthlma* [sic] *sinica* ZHANG & HAO [sic?] (: 55). [The cited paper Zhang & Hao is lacking in the “References” but Hao, Zhang & Yang, Two New Species of Brahmaeidae from China, Journal of Jilin Forestry University, 1998, 14 (3): 155-156 is present] [in Chinese].

**Remarks:** two descriptions of *Brahmophthalma sinica* are known from literature thus far. Those are *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998 with its junior objective synonym and junior primary homonym *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000. The name *Brahmophthalma sinica* ZHANG & HAO is unknown to us and could be based on an error.

Paukstadt, L. H. & Paukstadt, U. (2015) [20.vi.2015] Beiträge zur Kenntnis der wilden Seidenspinner (Wilhelmshaven), 13 (8), pp. 388-404; described and figured the immature stages of *Brahmaea wallichii* (GRAY, 1831) from the mountainous China (Lepidoptera: Brahmaeidae). *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000 with uncertain status was cited. A short overview on

the family Brahmaeidae was provided (: 390-391). The authors noted that the name *sinica* was not used by them at the time being because the status of the Chinese *wallichii* populations being uncertain and the reared adults did not fit well with those described as *sinica*.

**Remarks:** further studies showed that an older description exists: *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998. *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000 is considered to be a junior objective synonym and junior primary homonym.

Kitching, Rougerie, Zwick, Hamilton, St Laurent, Naumann, Ballesteros Mejia & Kawahara (2018) [12.ii.2018 online] listed the name *sinica* HAO, ZHANG & YANG, 2000 [sic] as species of *Brahmaea (Brahmophthalma)* in ‘A global checklist of the Bombycoidea (Insecta: Lepidoptera)’.

**Remarks:** further studies showed that an older description exists: *Brahmophthalma sinica* HAO, ZHANG & YANG, 1998. *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000 is a junior objective synonym and junior primary homonym of *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998.

### ***sinica* HAO, ZHANG & YANG, 2000 (*Brahmophthalma*)**

[re-description; junior objective synonym and junior primary homonym]

**Original citation and spelling:** *Brahmophthalma sinica* sp. nov.

**Original description:** Hao Hui-Ling, Zhang Liu-Rong & Yang Chi-Kum (2000): Two new species of Brahmaeidae from China (Lepidoptera: Brahmaeidae). – Acta Zootaxonomica Sinica; Vol. 25, No. 1, Jan. 2000: pp. [90]-93; 7 figs. [English abstract pp. 92-93].

**Type locality:** [China,] Shaanxi Province, Duleimen, Mt. Taibai (33.9°N 107.7°E), 1,780 m.

**Remarks:** this actually is the same type locality as already cited for *sinica* HAO, ZHANG & YANG, 1998 with the difference that the coordinates have been added.

**Type material:** the description most likely based on the ♂ holotype by original designation only. The ♂ holotype is preserved in the PLA University of Agricultural and Animal Sciences, Changchun, Jilin 130062, China, cf. original description. The dimensions and collecting data of the holotype correspond to those of *sinica* HAO, ZHANG & YANG, 21998 and are therefore based on the same specimen.

**Taxonomic notes:** the name *sinica* HAO, ZHANG & YANG, 2000 was listed as species of *Brahmaea (Brahmophthalma)* in Kitching, I.J., Rougerie, R., Zwick, A., Hamilton, C.A., St Laurent, R.A., Naumann, S., Ballesteros Mejia, L. & Kawahara, A.Y. (2018): A global checklist of the Bombycoidea (Insecta: Lepidoptera); published online 2018 Feb 12. doi: 10.3897/BDJ.6.e22236.

*B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000 (*Brahmophthalma*) **syn. nov.**; *sinica* HAO, ZHANG & YANG, 2000 is a junior objective synonym and a junior primary homonym [re-description] of *sinica* HAO, ZHANG & YANG, 1998.

**Synonyms:** for misinterpretations see the appropriate text parts. Junior subjective synonyms, junior objective synonyms, errors and incorrect subsequent spellings for *sinica* HAO, ZHANG & YANG, 2000 are as follows:

*sinica* HAO, ZHANG & YANG, 1998; STATUS-; senior objective synonym and senior primary homonym

*sinica* ZHANG & HANG, 1996; Zhang, Hao & Yang (1999: 41) [error in citation?]

*sinica* ZHANG & HAO; Hao, Zhang & Yang (2002: 55) [error in citation?]

**Hybridizations:** n/a

### Further readings on *sinica* HAO, ZHANG & YANG, 2000

Zhang, Hao & Yang (1999) J. China Agricult. Univers., 1999, 4 (5), pp. 37-42; presented an overview on the Chinese brahmids. The authors recognized four genera in the family Brahmaeidae of China. One of those has been the genus *Brahmophthalma* MELL with the species *Brahmophthalma wallichii* GRAY, 1831 [sic] and *Bth. [Brahmophthalma] sinica* ZHANG & HANG, 1996 [sic?].

**Remarks:** text in Chinese with English summary. Unfortunately, a lot of misspellings of the taxa names had found their way into above publication.

Two descriptions of *Brahmophthalma sinica* are known from literature thus far. Those are *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998 and its junior objective synonym and junior primary homonym *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000. The name *B. (Brahmophthalma) sinica* ZHANG & HANG, 1996 as cited by Zhang, Hao & Yang (1999: 41) was not found in literature and therefore might be erroneously cited.

Hao, Zhang & Yang (2000) Acta Zootaxonomica Sinica; Vol. 25, No. 1, 2000: pp. 90-93, placed *wallichii* (GRAY) [sensu Bryk 1949: Arkiv För Zoologie, 41 (A) 1] and the new species *Brahmophthalma sinica* HAO, ZHANG & YANG, 2000 in the genus *Brahmophthalma* MELL, 1928.

**Remarks:** two descriptions of *Brahmophthalma sinica* are known from literature thus far. Those are *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998 and its junior objective synonym and junior primary homonym *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000.

Hao, Zhang & Yang (2002) [vii.2002] Acta Entomologica Sinica, 2002, 45 (Suppl.), 2002, pp. 53-55, compared the new species *Brahmophthlma* [sic] *litserra* with *B. sinica* ZHANG & HAO [sic?] (: 55).

**Remarks:** the appropriate original description of *Brahmaea (Brahmophthalma) sinica* ZHANG & HAO, 1996 was not found so far.

Two descriptions of *Brahmophthalma sinica* are known from literature thus far. Those are *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998 and its junior objective synonym and junior primary homonym *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000.

Paukstadt, L. H. & Paukstadt, U. (2015) [20.vi.2015] Beiträge zur Kenntnis der wilden Seidenspinner (Wilhelmshaven), 13 (8), pp. 388-404; described and figured the immature stages of *Brahmaea wallichii* (GRAY, 1831) from the mountainous China (Lepidoptera: Brahmaeidae). The following species was cited with uncertain status: *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000. A short overview on the family Brahmaeidae was provided (: 390-391). The authors noted that the name *sinica* was not used by them at the time being because the status of the Chinese *wallichii* populations being uncertain and the reared adults did not well fit with those described as *sinica*.

**Remarks:** *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998 is an older valid publication with priority.

Kitching, Rougerie, Zwick, Hamilton, St Laurent, Naumann, Ballesteros Mejia & Kawahara (2018) [12.ii.2018 online] listed the name *sinica* HAO, ZHANG & YANG, 2000 as species of *Brahmaea (Brahmophthalma)* in ‘A global checklist of the Bombycoidea (Insecta: Lepidoptera)’.

**Remarks:** *Brahmaea (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998 is an older valid publication with priority.

Paukstadt, U. & Paukstadt, L. H. (2021) [27.v.2021] Beiträge zur Kenntnis der wilden Seidenspinner (Wilhelmshaven), 19 (3), pp. 83-115; listed *Brahmaea (Brahmophthalma) sinica* HAO, ZHANG & YANG, 2000 (: 111-113) and reviewed the available literature. The authors noted that this taxon can be published several times under the same name in different journals and under different combinations of authors. Further research was considered needed. ‡*sinica* Zhang, Hao & Yang (1999: 41) was consequently listed as *nomen nudum*.

**Remarks:** at the time of publication the older original description of *B. (Brahmophthalma) sinica* HAO, ZHANG & YANG, 1998 has been not in hands of the authors.

The citation ‡*sinica* ZHANG, HAO & YANG (1999: 41) (*nomen nudum*) refers to *sinica* ZHANG & HANG, 1996 which is a name not found in the appropriate literature so far.

**Remarks:** A “Preliminary Checklist” of the names in the family Brahmaeidae, the “References” and the “Internet References”, and the “Acknowledgements” are supposedly provided with the last issue of this series.

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