

Eine aktualisierte Checkliste der Saturniiden von Sumatra, Indonesien (Lepidoptera: Saturniidae)

An updated checklist of the saturniid moths of Sumatra,
Indonesia (Lepidoptera: Saturniidae)

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Systematics: Insecta-; Lepidoptera-; Glossata-; Heteroneura-;

Bombycoidea-;

Saturniidae-; Saturniidae Boisduval, 1837 [“1834”]

Saturniidae-; Saturniinae Boisduval, 1837 [“1834”]

Saturniinae-; Attacini Blanchard, 1840

Attacini-; *Attacus* Linnaeus, 1767

Attacus-; *Phalaena atlas* Linnaeus, 1758; STATUS-; type-species of
Attacus Linnaeus, 1767 by subsequent designation by the ICZN (Opinion
450)

Attacus-; *atlas* (Linnaeus, 1758) (*Phalaena*)

Attacus-; *atlas simalurana* Watson, 1915 (*Attacus*); STATUS-; status needs
confirmation

Attacini-; *Archaeoattacus* Watson in Packard, 1914

Archaeoattacus-; *Attacus edwardsii* White, 1859; STATUS-; type-species
of *Archaeoattacus* Watson in Packard, 1914 by original designation

Archaeoattacus-; *staudingeri* (W. Rothschild, 1895) (*Attacus*)

Attacini-; *Samia* Hübner, 1819 [“1816”]

Samia-; *Phalaena cynthia* Drury, 1773; STATUS-; type-species of *Samia*
Hübner, 1819 [“1816”] by subsequent designation by Grote (1865)

Samia-; *insularis* (Snellen van Vollenhoven, 1862) (*Philosamia*)

Samia-; *vaneeckeii* Watson, 1914 [“1913”] (*Philosamia*); STATUS-; junior
subjective synonym of *insularis* (Snellen van Vollenhoven, 1862)

Saturniinae-; Saturniini Boisduval, 1837 [“1834”]

Saturniini-; *Actias* Leach in Leach & Nodder, 1815

Actias-; *Phalaena luna* Linnaeus, 1758; STATUS-; type-species of *Actias*
Leach in Leach & Nodder, 1815 by subsequent designation by Grote
(1874)

Actias-; *selene*-group (sensu Nässig 1994); STATUS-; tentative collective-
group name

Actias-; ***selene*-subgroup** (sensu Paukstadt & Paukstadt 2022); STATUS-;
new tentative collective-group name which includes continental Asian
taxa north of the Isthmus of Kra (including the Indian subcontinent)

Actias-; *selene* (Hübner, 1807 [“1806”]) (*Echidna Caudata*)

Actias-; ***seitzi*-subgroup** (sensu Paukstadt & Paukstadt 2022); STATUS-;
new tentative collective-group name which includes non-continental
Asian taxa south of the Isthmus of Kra (Malay Peninsula and Malay
Archipelago), those are *seitzi seitzi* Kalis, 1934, *seitzi vandenberghi*
Roepke, 1956 **stat. rev.**, *seitzi pahangensis* Brechlin, 2012 (*Actias*), *seitzi*

sinjaevorum Brechlin, 2012 (*Actias*), *brevijuxta brevijuxta* Nässig & Treadaway, 1997 (*Actias*), and *brevijuxta brevinaensis* Brechlin, 2012 (*Actias*)

Actias-; *seitzi seitzi* Kalis, 1934 (*Actias*); **REMOVAL-FROM-SYNONYMY**; *vandenberghi* Roepke, 1956

Actias-; *seitzi vandenberghi* Roepke, 1956 (*Actias*); **REMOVAL-FROM-SYNONYMY**; with *seitzi seitzi* Kalis, 1934

Actias-; ***maenas-group*** (sensu Nässig 1994); STATUS-; tentative collective-group name

Actias-; *maenas* Doubleday, 1847 (*Actias*)

Actias-; *maenas saja* van Eecke, 1913 (*Actias*)

Actias-; *maenas recta* (Bouvier, 1928) (*Sonthonnaxia*); STATUS-; junior subjective synonym of *maenas saja* van Eecke, 1913 (*Actias*)

Saturniini-; *Antheraea Hübner, 1819* [“1816”]

Saturniini-; *Phalaena mylitta* Drury, 1773; STATUS-; type-species of *Antheraea Hübner, 1819* [“1816”] by subsequent designation by Kirby (1892)

Antheraea-; *Loepantheraea Toxopeus*, 1940; STATUS-; junior synonym of *Antheraea Hübner, 1819* [“1816”]

Antheraea-; *Loepantheraea rosieri* Toxopeus, 1940; STATUS-; type-species of *Loepantheraea Toxopeus*, 1940

***Antheraea*-; *Antheraea Hübner, 1819* [“1816”]**; STATUS-; subgenus of *Antheraea Hübner, 1819* [“1816”]

Antheraea-; ***paphia/frithi-group*** (sensu Nässig 1991); STATUS-; tentative collective-group name

Antheraea-; ***frithi-subgroup*** of the *paphia/frithi-group* (sensu Nässig 1991); STATUS-; tentative collective-group name

Remarks: The subdivision of the *paphia/frithi-group* (sensu Nässig 1991) into a *paphia*-subgroup and a *frithi*-subgroup as proposed by Nässig (1991) is not feasible due to the complex relationships in the genus *Antheraea* and is no longer used in the following. An explanatory publication on this matter is in preparation.

Antheraea-; ***frithi-complex*** (sensu Paukstadt & Paukstadt 2010); STATUS-; tentative collective-group name

Antheraea-; *frithi* Moore, 1859

Antheraea-; *billitonensis* Moore in Druce, 1878 (*Antheraea*); STATUS-; needs confirmation

Antheraea-; *gshawandneri* Niepelt in Strand, 1918 (*Antheraea*)

Antheraea-; *sumatrana* Niepelt, 1926 (*Antheraea*)

Antheraea-; *mentawai* Nässig, Lampe & Kager in Nässig, 2002 (*Antheraea* (*Antheraea*))

Antheraea-; *jakli* Naumann, 2008 (*Antheraea* (*Antheraea*))
Antheraea-; *kalangensis* Brechlin & Meister, 2009 (*Antheraea* (*Antheraea*))
Antheraea-; *acehensis* Paukstadt & Paukstadt, 2010 (*Antheraea* (*Antheraea*))
Antheraea-; **platessa-complex** (sensu Paukstadt, Brosch & Paukstadt 1999); STATUS-; tentative collective-group name
Antheraea-; *platessa* Rothschild, 1903 (*Antheraea*)
Antheraea-; *siberutensis* Brechlin, 2022 (*Antheraea* (*Antheraea*))
Antheraea-; **larissa-subgroup** of the *paphia/frithi*-group (sensu Brechlin 2014); STATUS-; tentative collective-group name
Antheraea-; *larissa*-complex of the *larissa*-subgroup (sensu Paukstadt & Paukstadt 2018); STATUS-; tentative collective-group name
Antheraea-; *larissa* (Westwood, 1848) (*Saturnia*)
Antheraea-; *larissa* *ridlyi* Moore, 1892 (*Antheraea*)
Antheraea-; *delegata* Swinhoe, 1893 (*Antheraea*); STATUS-; junior subjective synonym of *ridlyi* Moore, 1892
Antheraea-; **cordifolia/minahassae-subgroup** of the *paphia/frithi*-group (sensu Paukstadt & Paukstadt 2022); STATUS-; tentative collective-group name
Antheraea-; **cordifolia/rosieri-complex** (sensu Paukstadt & Paukstadt 2022) of the *cordifolia/minahassae*-subgroup; STATUS-; tentative collective-group name
Antheraea-; *rosieri* (Toxopeus, 1940) (*Loepantheraea*)
Antheraea-; **helferi-group** (sensu Nässig 1991); STATUS-; tentative collective-group name
Antheraea-; **helferi-subgroup** (sensu Paukstadt, Paukstadt & Brosch 1998); STATUS-; tentative collective-group name
Antheraea-; *helferi* Moore, 1859 (*Antheraea*)
Antheraea-; *pratti* Bouvier, 1928 (*Antheraea*)
Antheraea-; *cadioui* Naumann, 2010 (*Antheraea*)
Antheraea-; *malakkana* Brechlin, 2022 (*Antheraea* (*Antheraea*))
Antheraea-; *niasiana* Brechlin, 2022 (*Antheraea* (*Antheraea*))
Antheraea-; **yamamai-subgroup** (sensu Paukstadt, Paukstadt & Brosch 1998); STATUS-; tentative collective-group name
Antheraea-; *diehli* Lemaire, 1979 (*Antheraea*)
Antheraea-; **pernyi-group** (sensu Nässig 1991); STATUS-; tentative collective-group name.
Antheraea-; *korintjiana* Bouvier, 1928 (*Antheraea*)
Antheraea-; *lampei* Nässig & Holloway, 1989 (*Antheraea*)

***Antheraea*;** ***Antheraeopsis* Wood-Mason, 1886;** STATUS-; subgenus of *Antheraea* Hübner, 1819 [“1816”]

Antheraeopsis -; *Saturnia assama* Westwood, 1848; STATUS-; type-species of *Antheraeopsis* Wood-Mason, 1886

Antheraeopsis -; ***youngi*-group** (sensu Nässig, 1991); STATUS-; tentative collective-group name

Antheraeopsis -; *youngi* Watson, 1915 (*Antheraea*)

Antheraeopsis -; *brunnea* van Eecke, 1921 (*Antheraea*); STATUS-; junior subjective synonym of *youngi* Watson, 1915

Saturniini-; *Cricula* Walker, 1855

Remarks: *Cricula* Walker, 1855 was first established in the Drepanulidae (now Drepanidae) and was placed in the Saturniidae by Herrich-Schäffer ([1858] 1850-1858: 61)

Cricula -; *Saturnia trifenestrata* Helfer, 1837; STATUS-; type-species of *Cricula* Walker, 1855 by monotypy

Cricula -; ***trifenestrata*-group** (sensu Paukstadt & Paukstadt 2019); STATUS-; tentative collective-group name

Cricula -; *trifenestrata* (Helfer, 1837) (*Saturnia* (?))

Cricula -; *trifenestrata javana* Watson, 1913 (*Cricula*)

Cricula -; *trifenestrata barisanensis* Paukstadt & Paukstadt, 2010 (*Cricula*)

Cricula -; ***elaezia*-group** (sensu Paukstadt & Paukstadt 2019); STATUS-; tentative collective-group name

Cricula -; *elaezia* Jordan, 1909 (*Cricula*)

Cricula -; *sumatrensis* Jordan, 1939 (*Cricula*)

Cricula -; *separata* Naumann & Löffler, 2010 (*Cricula*)

Cricula -; ‡*elaeziosumatrana* Brechlin, 2010 (*Cricula*); STATUS-; nomen nudum (considered unpublished for the purposes of zoological nomenclature)

Cricula -; *elaeziosumatrana* Brechlin, 2010 (*Cricula*), STATUS-; junior subjective synonym of *separata* Naumann & Löffler, 2010

Saturniini-; *Loepa* Moore, 1859

Saturniini-; *Loepa* Moore in Horsfield & Moore, 1860 [“1858-9”];

STATUS-; “redescription”, junior homonym of *Loepa* Moore, 1859

Loepa -; *Saturnia katinka* Westwood, 1848; STATUS-; type-species of *Loepa* Moore, 1859 by monotypy

Saturniini-; ***katinka*-group** (sensu Naumann 1995); STATUS-; tentative collective-group name

Loepa -; *katinka* (Westwood, 1848) (*Saturnia*)

Saturniini-; ***katinka*-subgroup** of the *katinka*-group (sensu Naumann 1995); STATUS-; tentative collective-group name

Loepa;-; *megacore* Jordan, 1911 (*Loepa*)
Loepa;-; *sumatrana* Nässig, Lampe & Kager, 1989 (*Loepa*)
Loepa;-; **sikkima-subgroup** of the *katinka*-group (sensu Naumann 1995);
 STATUS-; tentative collective-group name
Loepa;-; *sikkima* Moore, 1866 [“1865”] (*Loepa*)
Loepa;-; *javanica* Mell, 1939 (*Loepa*)
Loepa;-; ‡*diehli* Brechlin, 2010 (*Loepa*); STATUS-; nomen nudum
 (considered unpublished for the purposes of zoological nomenclature)
Loepa;-; *diehli* Brechlin, 2010 (*Loepa*)

Saturniini-; *Lemaireia* Nässig & Holloway in Holloway, 1987

Saturniini -; *Lemaireia* Nässig & Holloway, 1988; STATUS-; redescription,
 junior homonym of *Lemaireia* Nässig & Holloway in Holloway, 1987
Lemaireia;-; *loepoides* Butler, 1880; STATUS-; type-species of *Lemaireia*
 Nässig & Holloway in Holloway, 1987 by original designation
Lemaireia;-; ***loepoides*-group** (sensu Nässig & Wang 2006); STATUS-;
 tentative collective-group name
Lemaireia;-; *loepoides* (Butler, 1880) (*Antheraea*)
Lemaireia;-; ***chrysopeplus*-group** (sensu Nässig & Wang 2006); STATUS-;
 tentative collective-group name
Lemaireia;-; *chrysopeplus* (Toxopeus, 1940) (*Syntherata*)
Lemaireia;-; *jaegeri* Paukstadt & Paukstadt, 2010 (*Lemaireia*)

Remarks: We propose the new collective-group name *seitzi*-subgroup, which includes taxa of the *selene*-group of the Malesian Region south of the Isthmus of Kra (Malay Peninsula and Malay Archipelago) to separate taxa of this group from taxa of continental Asia north of the Isthmus of Kra (including the Indian subcontinent, Taiwan and further smaller islands off the coast of continental Asia). This act is supported by DNA studies (by BOLD). Contrary to present results of DNA studies (by BOLD) we removed *vandenberghi* ROEPKE, 1956 from synonymy with *seitzi* KALIS, 1934 due to habitus, genitalia morphology and zoogeography: *seitzi vandenberghi* ROEPKE, 1956 **stat. rev.** This taxon is considered to be endemic to the island of Sumatra.

The subdivision of the *paphia/frithi*-group (sensu Nässig 1991) into a *paphia*-subgroup and a *frithi*-subgroup as proposed by Nässig (1991) is not feasible due to the complex relationships in the genus *Antheraea* and is no longer used in the following. An explanatory publication on this is in preparation.

Statement: Collective-group names used in this contribution were established tentative for certain assemblages of taxonomic convenience only. They do not comply with the requirements for a valid description according to the provisions of the International Code of Zoological Nomenclature, 4th Edition (London) – ICZN (1999).

Eine aktualisierte Checkliste der Saturniiden von Sumatra, Indonesien (Lepidoptera: Saturniidae)

An updated checklist of the saturniid moths of Sumatra, Indonesia (Lepidoptera: Saturniidae)

Abstract: Comprehensive studies of the Saturniidae (Lepidoptera) from Sumatra were recently done by Nässig, Lampe & Kager (1996a, b). Nässig, Lampe & Kager listed 25 taxa of Saturniidae for the island of Sumatra and the adjacent islands. 13 taxa (plus one misidentified taxon) were recorded from Aceh. During our expeditions to Aceh further 11 taxa of the Saturniidae were recorded for Aceh for the first time, cf. Paukstadt & Paukstadt (2006a, b, 2007a, b, 2008, 2009a, b, c, and d). After our preliminary documentation on the Saturniidae of the Nanggroe Aceh Darussalam Province, northern Sumatra, Indonesia, cf. Paukstadt & Paukstadt (2009d) and a checklist on the Saturniidae of Sumatra, cf. Paukstadt & Paukstadt (2010e), some new descriptions of saturniid moths from the Indonesian Archipelago were published and nomenclatural acts proposed. New taxa and nomenclatural acts within the family Saturniidae from Sumatra and the adjacent islands were mainly confirmed by DNA barcoding (of BOLD).

At the time being 34 taxa of Saturniidae are recognized for the provinces of Sumatra that means for the main island and the adjacent smaller islands. It is amazing that of the 34 Saturniidae taxa identified so far, at least 21 taxa are endemic to Sumatra and the adjacent islands. We herewith provide with an updated checklist of the Saturniidae of Sumatra. Further taxonomical changes and new descriptions of taxa are likely due to zoogeography and intensified comparisons of the DNA structures of the Saturniidae of Southeast Asia.

Ringkasan: Nässig, Lampe & Kager (1996) mencatat ada 25 taxa Saturniidae (Lepidoptera) dari Pulau Sumatera dan Pulau-pulau di sekitarnya yang secara administratif masuk ke Pulau Sumatera. Mereka mencatat ada 13 taxa dari Nanggroe Aceh Darussalam (NAD) (ditambah satu taxa yang salah diberi nama). Pada saat penelitian di NAD kami membuktikan bawah disana ada 11 taxa yang ditemukan untuk pertama kalinya. Daftar perbandingan yang baru untuk Saturniidae dari Pulau Sumatera dan Saturniidae dari NAD dipresentasikan disini. Taksa baru dan tindakan tata nama dalam Saturniidae dari Sumatera dan pulau-pulau yang berdekatan terutama dikonfirmasi oleh barcode DNA (BOLD). Saat ini 34 taksa Saturniidae diakui untuk pulau utama Sumatera dan pulau-pulau kecil yang berdekatan. Sangat luar biasa, dari 34 taksa Saturniidae yang teridentifikasi sejauh ini, setidaknya 21 taksa endemik di Sumatera dan pulau-pulau sekitarnya. Dengan ini kami memperbarui daftar periksa Saturniidae dari Sumatera. Perubahan taksonomi lebih lanjut dan deskripsi baru tentang taksa kemungkinan karena Zoogeografi dan perbandingan intensif dari struktur DNA Saturniidae di Asia Tenggara.

Einleitung

Umfassende Untersuchungen der wilden Seidenspinner (Lepidoptera: Saturniidae) Sumatras wurden durch Nässig, Lampe & Kager (1996a, b) mit Material durchgeführt, das überwiegend von dem bekannten Entomologen Dr. Eduard W. Diehl (1917-2003) gesammelt wurde. Nässig, Lampe & Kager (1996a) listeten 25 Taxa der Familie Saturniidae für die Insel Sumatra und die angrenzenden kleineren Inseln auf. 13 Taxa (plus ein falsch identifiziertes Taxon) wurden aus Aceh erfasst. Während unserer eigenen Expeditionen in der Nanggroe Aceh Darussalam Provinz, nördliches Sumatra, wurden weitere 11 Taxa der Saturniiden erstmals für Aceh nachgewiesen, vgl. Paukstadt & Paukstadt 2006a, b, 2007a, b, 2008, 2009a, b, c und d). Im Anschluss an unsere Dokumentation über die Saturniiden der Provinz Aceh, vgl. Paukstadt & Paukstadt (2009d) und einer Checkliste über die Saturniiden von Sumatra, vgl. Paukstadt & Paukstadt (2010e) wurden mehrere Neubeschreibungen von Saturniiden aus dem indonesischen Archipel und auch von Sumatra und den angrenzenden kleineren Inseln veröffentlicht und nomenklatorische Änderungen vorgeschlagen. Diese wurden hauptsächlich durch DNA-Analysen (von BOLD) bestätigt.

Derzeit werden 34 Taxa der Familie Saturniidae für die zehn Provinzen Sumatras anerkannt, also für die Hauptinsel Sumatra und die angrenzenden kleineren Inseln. Es ist erstaunlich, dass von den bisher identifizierten 34 Saturniiden-Taxa mindestens 21 Taxa auf Sumatra und den angrenzenden kleineren Inseln endemisch vorkommen. Zahlenmässig sind die meisten Endemiten auf den Inseln des Indischen Ozeans zu finden da diese teilweise über einen viel längeren Zeitraum geographisch von Sumatra isoliert waren. Die zu den sumatranischen Provinzen gehörenden kleineren Kontinentalinseln des Sundaschelfs beherbergen nur eine einzige endemische Art deren taxonomischer Status einer Bestätigung bedarf: *Antheraea (A.) billitonensis* MOORE in Druce, 1878.

Hiermit stellen wir eine aktualisierte Checkliste der Saturniiden von Sumatra zur Verfügung. Weitere taxonomische Änderungen und Neubeschreibungen von Saturniiden sind wahrscheinlich und wären dann sicher primär auf die besondere Zoogeographie in dieser Region und intensivierte Vergleiche der DNA-Strukturen bei den Saturniiden zurückzuführen.

Checklist of the Saturniidae (Lepidoptera) of the island of Sumatra and the adjacent smaller islands (provinces of Sumatra only), Indonesia

Tribe Attacini BLANCHARD, 1840

Genus *Attacus* LINNAEUS, 1767

atlas (LINNAEUS, 1758)

atlas simalurana WATSON, 1915 (endemic to Simeuluë I.)

Genus *Archaeoattacus* WATSON in Packard, 1914

staudingeri (W. ROTHSCHILD, 1895)

Genus *Samia* HÜBNER, 1819 [“1816”]

insularis (SNELLEN VAN VOLLENHOVEN, 1862)

Tribe Saturniini BOISDUVAL, 1837 [“1834”]

Genus *Actias* LEACH in Leach & Nodder, 1815

maenas-group

maenas saja VAN ECKE, 1913

selene-group

seitzi-subgroup

seitzi vandenberghi ROEPKE, 1956 **stat. rev.** (endemic to Sumatra)

Genus *Cricula* WALKER, 1855

trifenestrata-group

trifenestrata barisanensis PAUKSTADT & PAUKSTADT, 2010 (endemic to Sumatra)

elaezia-group

sumatrensis JORDAN, 1939 (endemic to Sumatra)

separata NAUMANN & LÖFFLER, 2010 (endemic to Sumatra)

Genus *Antheraea* HÜBNER, 1819 [“1816”]

Subgenus *Antheraeopsis* WOOD-MASON, 1886

youngi-group

youngi WATSON, 1915

Subgenus *Antheraea* HÜBNER, 1819 [“1816”]

paphia/frithi-group

frithi-complex

- billitonensis* MOORE in Druce, 1878 (endemic to Billiton I.)
gswandneri NIEPELT in Strand, 1918 (distribution range unknown)
sumatrana NIEPELT, 1926 (endemic to Sumatra)
mentawai NÄSSIG, LAMPE & KAGER in Nässig, 2002 (endemic to Pagai Utara I. in the Mentawai Arch.)
jakli NAUMANN, 2008 (endemic to Siberut I., Mentawai Arch.)
kalangensis BRECHLIN & MEISTER, 2009 (endemic to Sumatra)
acehensis PAUKSTADT & PAUKSTADT, 2010 (endemic to Sumatra)

platessa-complex

- platessa* ROTHSCCHILD, 1903
siberutensis BRECHLIN, 2022 (endemic to Siberut I.)

larissa-subgroup of the *paphia*/*frithi*-group

larissa-complex of the *larissa*-subgroup

- larissa ridlyi* MOORE, 1892

cordifolia/*minahassae*-subgroup

cordifolia/*rosieri*-complex

- rosieri rosieri* (TOXOPEUS, 1940)

pernyi-group

- korintjiana* BOUVIER, 1928 (endemic to Sumatra)
lampei NÄSSIG & HOLLOWAY, 1989

helferi-group

helferi-subgroup

- pratti* BOUVIER, 1928 (endemic to Sumatra)
cadioui NAUMANN, 2010 (endemic to the Mentawai Archipelago)
malakkana BRECHLIN, 2022
niasiana BRECHLIN, 2022 (endemic to Nias I.)

yamamai-subgroup

- diehli* LEMAIRE, 1979

Genus *Loepa* MOORE, 1859

katinka-subgroup of the *katinka*-group

- megacore* JORDAN, 1911 (endemic to Sumatra)
sumatrana NÄSSIG, LAMPE & KAGER, 1989 (endemic to Sumatra)

sikkima-subgroup of the *katinka*-group

- javanica* MELL, 1939 (endemic to Sumatra)
diehli BRECHLIN, 2010 (endemic to Sumatra)

Genus *Lemaireia* NÄSSIG & HOLLOWAY in Holloway, 1987

loepoides-group

loepoides (BUTLER, 1880)

chrysopeplus-group

jaegeri PAUKSTADT & PAUKSTADT, 2010 (endemic to Sumatra)

Remarks: Further taxa were recorded from the island of Sumatra. Some records based on misidentifications, mislabeled specimens or single records which have not yet been confirmed with fresh material. Those are (the below list might be incomplete):

1. *A. (A.) steinkeorum* PAUKSTADT, BROSCHE & PAUKSTADT, 1999, cf. Naumann (2008).
2. *A. (A.) broschii* NAUMANN, 2001, cf. Naumann (2008).
3. *A. (A.) brunei* ALLEN & HOLLOWAY, 1986, cf. Nässig, Lampe & Kager (1996a) and Paukstadt, Paukstadt & Brosch (1998b).
4. “*A. (A.) broschii*, or another closely related taxon”, cf. Paukstadt & Paukstadt (2009b) [= *acehensis* PAUKSTADT & PAUKSTADT, 2010].

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