

Eine aktualisierte Checkliste der Saturniiden von Borneo (Lepidoptera: Saturniidae)

An updated checklist of the saturniid moths of Borneo
(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 mannus* Fruhstorfer, 1904 (*Attacus*); STATUS-; junior subjective synonym of *atlas* (Linnaeus, 1758)

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*)

Archaeoattacus-; *malayanus* (Kurosawa & Kishida, 1984) (*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-; *tetrica* (Rebel, 1924) (*Philosamia*)

Samia-; *borneensis* (Rebel, 1925) (*Philosamia*); STATUS-; junior subjective synonym of *tetrica* (Rebel, 1924)

Samia-; *kalimantanensis* Paukstadt & Paukstadt, 2011; STATUS-; presently considered a junior subjective synonym of *tetrica* (Rebel, 1924) which needs further investigation with fresh material

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-; tentative collective-group name

Actias-; *selene* (Hübner, 1807) (*Echidna Caudata*)

Actias;-; **seitzi-subgroup** (sensu Paukstadt & Paukstadt 2022); STATUS-;
tentative collective-group name

Actias;-; *seitzi seitzi* Kalis, 1934 (*Actias*)

Actias;-; *seitzi sinjaevorum* Brechlin, 2012 (*Actias*)

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

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

Actias;-; *maenas diana* Maassen in Maassen [& Weymer], 1872 (*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-complex*** (sensu Paukstadt, Paukstadt & Schulz 2011);
STATUS-; tentative collective-group name

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

Antheraea;-; *moultoni* Watson, 1927 (*Antheraea* [sic])

Antheraea;-; *brunei* Allen & Holloway, 1986 (*Antheraea*)

Antheraea;-; *alleni* Holloway, 1987 (*Antheraea*)

Antheraea;-; *zwicki* Nässig & Treadaway, 1998 (*Antheraea* (*Antheraea*))

Antheraea;-; *steinkeorum* Paukstadt, Paukstadt & Brosch, 1999 (*Antheraea*
(*Antheraea*))

Antheraea;-; *broschi* Naumann, 2001 (*Antheraea* (*Antheraea*))

Antheraea;-; ***platessa-complex*** (sensu Paukstadt, Brosch & Paukstadt 1999);
STATUS-; tentative collective-group name

Antheraea;-; *platessa* Rothschild, 1903 (*Antheraea*)

Antheraea;-; *fusca* Rothschild, 1903 (*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-; **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-; *rosieri crockerensis* Paukstadt & Paukstadt, 2022 (*Antheraea* (*Antheraea*))

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-; *borneensis* Moore, 1892 (*Antheraea*)

Antheraea-; *winbrechlini* 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-; *roylei* Moore, 1859 (*Antheraea*)

Antheraea-; *roylei* Moore, 1859 (*Antheraea*); STATUS-; considered an incorrect original spelling

Antheraea-; *roylei* Moore in Horsfield & Moore, 1860 [“1859”]; STATUS-; “redescription”, junior homonym of *roylei* Moore, 1859

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*)

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;-; *bornea* Watson, 1913 (*Cricula*)

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

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

Cricula;-; *kalimantanensis* Brechlin, 2010 (*Cricula*); STATUS-; group membership needs further investigation

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

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

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

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

Cricula;-; *magnifenestrata elaeziopahangensis* Brechlin, 2010 (*Cricula*)

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

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

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

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

Loepa -; *martinii* Brechlin & Paukstadt, 2010 (*Loepa*)

Loepa -; ‡*martinii* Brechlin & Paukstadt, 2010 (*Loepa*); STATUS-;
considered unpublished for the purposes of zoological nomenclature)

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*)

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

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*)

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 Borneo (Lepidoptera: Saturniidae)

An updated checklist of the saturniid moths of Borneo (Lepidoptera: Saturniidae)

Abstract: Comprehensive studies of the Saturniidae (Lepidoptera) from Borneo were done by Allan (1981), Holloway (1987), and Beck & Nässig (2008). Beck & Nässig provided a checklist containing 27 species (including doubtful species) of Saturniidae for the island of Borneo. Of this checklist 20 taxa are still recognized in species or subspecies status for Borneo, other names were found being based on misidentifications. In the meantime, several new taxa have been described and taxonomic changes have been made. New descriptions were made by Naumann & Löffler (2010), Brechlin & Paukstadt (2010, 2022), Paukstadt & Paukstadt (2011, 2022), and Brechlin (2010, 2012, 2022), some of which, however, are currently recognized as junior synonyms. New taxa and nomenclatural acts within the Saturniidae from Borneo and the adjacent islands were mainly supported by DNA barcoding (of BOLD). At the time being 27 taxa of Saturniidae are recognized for the main island of Borneo and the adjacent smaller islands. Of the 27 Saturniidae taxa identified so far, only 14 taxa are endemic to Borneo and the adjacent smaller islands. This may have zoogeographical reasons, because Borneo was connected to the Malay Peninsula for a very long time during the ice ages, or it may be due to poorer exploration of the island. We herewith provide with an updated checklist of the Saturniidae of Borneo. 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: Studi yang lengkap mengenai Saturniidae (Lepidoptera) dari Borneo dilakukan oleh Allan (1981), Holloway (1987), dan Beck & Nässig (2008). Beck & Nässig memberikan daftar periksa yang berisi 27 spesies Saturniidae (termasuk spesies yang diragukan) untuk pulau Borneo. Dari daftar periksa ini 20 taksa masih diakui dalam status spesies atau subspecies untuk Borneo, nama yang lain ditemukan berdasarkan karena kesalahan identifikasi. Sementara itu, beberapa taksa baru telah dijelaskan dan taksonominya telah dirubah. Deskripsi baru dibuat oleh Naumann & Löffler (2010), Brechlin & Paukstadt (2010 dan 2022), Paukstadt & Paukstadt (2011 dan 2022), dan Brechlin (2010, 2012 dan 2022) beberapa di antaranya, bagaimanapun juga, saat ini diakui sebagai sinonim junior. Taksa baru dan tindakan tata nama dalam Saturniidae dari pulau Borneo dan pulau-pulau yang berdekatan terutama dikonfirmasi oleh barcode DNA (BOLD). Saat ini ada 27 taksa Saturniidae yang diakui dari pulau Borneo dan pulau-pulau kecil yang berdekatan. Dari 27 taksa Saturniidae yang teridentifikasi sejauh ini, hanya 14 taksa yang endemik di pulau Borneo dan pulau-pulau kecil yang berdekatan. Ini mungkin memiliki alasan zoogeografis, karena Borneo terhubung ke Semenanjung Malaya untuk waktu yang sangat lama pada zaman es, atau itu mungkin karena eksplorasi pulau yang lebih

buruk. Dengan ini kami memberikan daftar periksa terbaru untuk Saturniidae dari Borneo. Perubahan taksonomi lebih lanjut dan deskripsi baru mengenai taksa kemungkinan disebabkan oleh zoogeografi dan perbandingan intensif struktur DNA Saturniidae di Asia Tenggara.

Einleitung

Umfassende Studien der Familie Saturniidae (Lepidoptera) von Borneo wurden von Allan (1981), Holloway (1987) und Beck & Nässig (2008) durchgeführt. Beck & Nässig (2008) stellten eine Checkliste mit 27 Arten (einschließlich zweifelhafter Arten) von Saturniiden für die Insel Borneo zur Verfügung. Von dieser Checkliste sind derzeit noch 20 Taxa im Art- oder Unterartstatus für Borneo anerkannt, andere Namen beruhten auf Fehlidentifikationen. Inzwischen wurden mehrere neue Taxa beschrieben und taxonomische Änderungen vorgenommen. Neubeschreibungen wurden von Naumann & Löffler (2010), Brechlin & Paukstadt (2010 und 2022), Paukstadt & Paukstadt (2011 und 2022) und Brechlin (2010, 2012 und 2022) vorgenommen, von denen jedoch einige derzeit als jüngere subjektive Synonyme anerkannt sind. Neue Taxa und nomenklaturische Änderungen innerhalb der Saturniidae von Borneo und den angrenzenden Inseln wurden hauptsächlich durch DNA-Barcoding (von BOLD) bestätigt. Derzeit sind 27 Taxa der Familie Saturniidae für die Hauptinsel Borneo und die angrenzenden kleineren Inseln anerkannt. Von den bisher identifizierten 27 Saturniiden-Taxa sind nur 14 Taxa auf Borneo und den angrenzenden kleineren Inseln endemisch. Das kann zoogeographische Gründe haben, weil Borneo während der Eiszeiten lange mit der malaiischen Halbinsel, Java und Sumatra verbunden war, oder es kann auch an einer schlechteren Erforschung der Insel liegen. Zwischen der Kontinentalinsel Borneo und der Insel Sulawesi besteht eine Verbreitungsgrenze für Saturniiden. Viele Gruppen „schafften“ es nicht von Borneo aus nach Sulawesi zu gelangen: *Lemaireia* NÄSSIG & HOLLOWAY in Holloway, 1987, *Antheraepsis* WOOD-MASON, 1886, die *pernyi*-Gruppe, die *yamamai*-Untergruppe, der *cordifolia/rosieri*-Komplex, die *larissa*-Untergruppe, der *platessa*-Komplex und die *selene*-Gruppe. Hiermit stellen wir eine aktualisierte Checkliste der Saturniidae von Borneo zur Verfügung. Weitere taxonomische Änderungen und Neubeschreibungen von Taxa sind wahrscheinlich und wären dann wohl primär auf die spezielle Zoogeographie der Insel und intensivierte Vergleiche der DNA-Strukturen der Saturniiden Südostasiens zurückzuführen.

Checklist of the Saturniidae (Lepidoptera) of the island of Borneo

Tribe Attacini BLANCHARD, 1840

Genus *Attacus* LINNAEUS, 1767

atlas (LINNAEUS, 1758)

Genus *Archaeoattacus* WATSON *in* Packard, 1914

staudingeri (W. ROTHSCHILD, 1895)

Genus *Samia* HÜBNER, 1819 [“1816”]

tetrica (REBEL, 1924)

Tribe Saturniini BOISDUVAL, 1837 [“1834”]

Genus *Actias* LEACH *in* Leach & Nodder, 1815

maenas-group

maenas diana MAASSEN, 1872

selene-group

seitzi-subgroup

seitzi sinjaevorum BRECHLIN, 2012 (endemic to Borneo)

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

Subgenus *Antheraeopsis* WOOD-MASON, 1886

youngi-group

youngi WATSON, 1915 (endemic to Borneo)

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

paphia/frithi-group

frithi-complex

moultoni WATSON, 1927 (endemic to Borneo)

brunei ALLEN & HOLLOWAY, 1986 (endemic to Borneo)

alleni HOLLOWAY, 1987 (endemic to Borneo)

zwicki NÄSSIG & TREADAWAY, 1998

broschi NAUMANN, 2001 (endemic to Borneo)

platessa-complex

fusca ROTHSCHILD, 1903 (endemic to Borneo)

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

larissa-complex of the *larissa*-subgroup

larissa ridlyi MOORE, 1892

cordifolia/minahassae-subgroup

cordifolia/rosieri-complex

rosieri crockerensis PAUKSTADT & PAUKSTADT, 2022 (endemic to
?northern Borneo)

pernyi-group

lampei NÄSSIG & HOLLOWAY, 1989

helferi-group

helferi-subgroup

borneensis MOORE, 1892 (endemic to southern Borneo)

winbrechlini BRECHLIN, 2022 (endemic to northern Borneo / Sabah)

yamamai-subgroup

diehli LEMAIRE, 1979

Genus *Cricula* WALKER, 1855

trifenestrata-group

trifenestrata (HELPER, 1837) (ssp.)

bornea WATSON, 1913 (endemic to northern Borneo)

elaezia-group

elaezia JORDAN, 1909 (records are from southern Kalimantan)

kalimantanensis BRECHLIN, 2010 (endemic to southern Kalimantan)

magnifenestrata magnifenestrata NAUMANN & LÖFFLER, 2010 (endemic
to Borneo)

Genus *Loepa* MOORE, 1859

katinka-group

katinka-subgroup of the *katinka*-group

martinii BRECHLIN & PAUKSTADT, 2010 (endemic to Borneo)

sikkima-subgroup of the *katinka*-group

javanica MELL, 1939 (or another related taxon)

Genus *Lemaireia* NÄSSIG & HOLLOWAY in Holloway, 1987

loepoides-group

loepoides (BUTLER, 1880)

chrysopeplus-group

chrysopeplus (TOXOPEUS, 1940) (records are from southern Kalimantan, cf.
Beck & Nässig 2008)

Remarks: Further taxa were recorded from the island of Borneo. 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. *Archaeoattacus malayanus* (KUROSAWA & KISHIDA, 1984), cf. Fukuda (2001) [recorded as *edwardsii* (WHITE, 1859)]
2. *Antheraea* (A.) *steinkeorum* PAUKSTADT, PAUKSTADT & BROSCHE, 1999, cf. Naumann (2001), comment by Beck & Nässig (2008)
3. *Antheraea gschwandneri* NIEPELT, 1918, cf. Holloway (1987), comment by Beck & Nässig (2008)
4. *Antheraea celebensis* WATSON, 1915, cf. Holloway (1987), comment by Beck & Nässig (2008)
5. *Antheraea assamensis* HELFER, 1837, cf. Holloway (1987)
6. *Antheraea jana* STOLL, 1782, cf. Barlow (1982), cf. Holloway (1987)
7. *Antheraea korintjiana* BOUVIER, 1928, cf. Holloway (1987), comment by Beck & Nässig (2008)
8. *Cricula elaezia* JORDAN, 1909, cf. Holloway (1987)
9. *Loepa sikkima* MOORE, 1866 [“1865”], cf. Barlow (1982), Holloway in Barlow (1982), Holloway (1987)
10. *Loepa megacore* JORDAN, 1911, cf. Holloway (1987), Nässig, Lampe & Kager (1996), Beck & Nässig (2008)
11. *Samia cynthia* (DRURY, 1773), cf. Barlow (1982), Lampe (1984, 1985)
12. *Samia borneensis* (REBEL, 1925), cf. Barlow (1982), Holloway in Barlow (1982), Lampe (1984, 1985), Nässig, Lampe & Kager (1996), Paukstadt & Paukstadt (2011)

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