

Nomenclatural notes on Satyrinae (Lepidoptera: Nymphalidae)

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Abstract

Nineteen nomenclatural problems affecting species group names of the world's Satyrinae are presented and discussed herein. The following replacement names are proposed (replaced name within parentheses): *Elymnias esaca tateishii* (*E. e. lautensis* Tateishi), *E. hypermnestra uemurai* (*E. nigrescens meliophila* Fruhstorfer), *Lethe confusa kalisi* (*L. rohria borneensis* Kalis), *L. sinorix xironis* (*L. s. obscura* Mell), *Oeneis buddha pelhami* (*O. b. pygmea* Gross), *Pharneuptychia haywardiana* (*Euptychia phares boliviana* Hayward), and *Ypthima taiwana* (*Y. methora formosana* Fruhstorfer). *Bicyclus denina* (Godart, [1824] is a new combination, and *Mycalesis safitza* Westwood, 1850 is a new synonym of *B. denina*. The specific status of *Melanargia nemausiaca* (Esper, 1789), and *Quilaphoetus limonia* (Philippi, 1859), is reinstated, the latter being a new combination. Resolution of nomenclatural problems in five of the cases will require the International Commission on Zoological Nomenclature to use its plenary power.

KEY WORDS: Lepidoptera, Nymphalidae, Satyrinae, Nomenclature, replacement names.

Notas nomenclaturales sobre Satyrinae (Lepidoptera: Nymphalidae)

Resumen

Se exponen y discuten 19 problemas nomenclaturales que afectan a diversos nombres del grupo de especie de los Satyrinae del mundo. Se proponen los siguientes nombres de reemplazo (entre paréntesis los nombres reemplazados): *Elymnias esaca tateishii* (*E. e. lautensis* Tateishi), *E. hypermnestra uemurai* (*E. nigrescens meliophila* Fruhstorfer), *Lethe confusa kalisi* (*L. rohria borneensis* Kalis), *L. sinorix xironis* (*L. s. obscura* Mell), *Oeneis buddha pelhami* (*O. b. pygmea* Gross), *Pharneuptychia haywardiana* (*Euptychia phares boliviana* Hayward), e *Ypthima taiwana* (*Y. methora formosana* Fruhstorfer). *Bicyclus denina* (Godart, [1824] es una nueva combinación, y *Mycalesis safitza* Westwood, 1850 es un nuevo sinónimo de *B. denina*. Se restablece el estatus específico de *Melanargia nemausiaca* (Esper, 1789) y el de *Quilaphoetus limonia* (Philippi, 1859), siendo esta última una nueva combinación. En cinco de los casos, la resolución de sus problemas nomenclaturales deberá ser efectuada por la Comisión Internacional de Nomenclatura Zoológica por medio de su poder plenario.

PALABRAS CLAVE: Lepidoptera, Nymphalidae, Satyrinae, Nomenclatura, nombres de reemplazo.

Introduction

During research intended to establish a complete synonymical list of the butterflies (Hesperioidea + Papilionoidea) of the world for the "Global Butterfly Names" project (www.ucl.ac.uk/taxome/gbn), a disturbingly high number of nomenclatural problems involving species group names have been discovered. A few have already been discussed elsewhere (LAMAS, 2007, 2008; LAMAS & ROBBINS, 2009), mostly involving instances of junior homonymy that had been undetected. In this paper, I present nineteen cases that include junior homonymy, *nomina nuda*, *nomina dubia*, a mythical name, and erroneous applications of the Principle of Priority. The cases are arranged alphabetically by current genus.

1. *Satyrus denina* Godart, [1824]: 487.

Despite having been listed as a junior synonym of *Papilio delila* Fabricius, 1793 by KIRBY (1871: 93), this name was ignored by ACKERY *et al.* (1995: 292) when establishing *Mycalesis safitza* Westwood, 1850 (currently *Bicyclus safitza* [Westwood, 1850]), as the valid name to substitute *Papilio delila* Fabricius, invalid by reason of being a junior primary homonym of *Papilio delila* Fabricius, 1775 (currently *Dryas iulia delila* [Fabricius, 1775] - Nymphalidae: Heliconiinae) (LAMAS, 2004: 265). Actually, *Satyrus denina* was introduced by GODART ([1824]: 487) as a replacement name for *Papilio delila* Fabricius, 1793. Therefore, the valid name for the taxon is *Bicyclus denina* (Godart, [1824]), **new combination**, and *Mycalesis safitza* Westwood, 1850 is a **new synonym**.

2. *Papilio macularia* Martyn, 1797: pl. 23, figs. 61-62.

SHERBORN (1902: 571) treated this name as not having been published, which I consider a correct interpretation. According to GRIFFIN & SHERBORN (1931), no text was published for plate 23, and the name pertaining to the butterflies represented in it was “filled in afterwards by hand” (JANSON, 1898). The figures show the upper and underside of a female *Cercyonis pegala alope* (Fabricius, 1793), supposedly from “Brazils”, but most likely from the United States, Georgia, from where it may have been sent to Martyn by John Abbot (GILBERT, 1998: 30). It should be treated as a *nomen nudum*.

3. *Elymnias esaca lautensis* Tateishi, 2001: 13, pl. 3, figs. 1-2.

This recently named subspecies is invalid, because it is a junior primary homonym of *Elymnias harterti lautensis* Medicielo & Hanafusa, 1994. It is replaced by *Elymnias esaca tateishii* Lamas, **nomen novum**.

4. *Elymnias nigrescens meliophila* Fruhstorfer, 1896b: 147.

This name is currently regarded as a valid subspecies of *Elymnias hypermnestra* (Linnaeus, 1763) (UÉMURA, 2008: 2, as *melitophila*). However, *Elymnias nigrescens meliophila* [published on 15 December 1896, and described from Lombok] is a junior primary homonym of *Elymnias meliophila* Fruhstorfer, 1896a [published on 15 May 1896, and described from Salayer], currently regarded as a valid subspecies of *Elymnias hewitsoni* Wallace, 1869 (VANE-WRIGHT & DE JONG, 2003: 175). The first name above was later misspelled *Elymnias nigrescens melitophila* [sic] by FRUHSTORFER (1897: 4), and redescribed as a new (!) subspecies by FRUHSTORFER (1898: 342), as *E. n. melitophila*; the 1898 redescription is almost identical, word by word, to the 1896b original description. For the Lombok subspecies I propose the replacement name *Elymnias hypermnestra uemurai* Lamas, **nomen novum**.

5. *Papilio hypermnestra* Linnaeus, 1763: 24.

This name is currently regarded as a valid species of *Elymnias* Hübner, 1818 (HONEY & SCOBLE, 2001: 335). It is a junior primary homonym of *Papilio hypermnestra* Scopoli, 1763, currently treated as a synonym of *Zerynthia polyxena* ([Schiffmüller], 1775) - Papilionidae: Parnassiinae (HESSELBARTH *et al.*, 1995: 245). *Papilio hypermnestra* Linnaeus was published not earlier than 23 June 1763, whereas there is no doubt that *Papilio hypermnestra* Scopoli was published before that date (EVENHUIS, 1997: 719). Therefore, Linnaeus' *hypermnestra* should be replaced by its earliest available synonym (*Papilio undularis* Drury, 1773, currently regarded as a valid subspecies of *Elymnias hypermnestra*) (TALBOT, [1949]: 386). Likewise, Schiffmüller's *polyxena* would have to be replaced by its senior synonym, *Papilio hypermnestra* Scopoli, 1763.

However, these changes to two widely-used names of very long standing would be extremely disruptive, and an application will have to be presented to the International Commission on Zoological Nomenclature for a ruling under the plenary power. A further complication is that *Papilio polyxena* [Schiffmüller], 1775 has been placed on the Official List of Specific Names in Zoology with the Name Number 2683 (ICZN, 1979: 102).

6. *Papilio arachne* [Schiffermüller], 1775: 169.

This name is currently regarded as a senior synonym of *Erebia pronoe* (Esper, 1780), but (wrongly) considered invalid as a junior primary homonym of *Papilio arachne* Cramer, 1775 (WARREN, 1936: 308). In fact, Schiffermüller's work has priority over Cramer's (ICZN, 1958), and the junior primary homonym is Cramer's name, which has been replaced by its earliest available synonym, *Memphis acidalia* (Hübner, [1819]) (LAMAS, 2004: 226). According to KUDRNA & BELICEK (2005: 15), Schiffermüller's *Papilio arachne* "...is available under the present Code, but it cannot be applied without 'reasonable doubts' to any known species...", and therefore these authors set it aside as a *nomen dubium*.

7. *Erebia herse* Grum-Grshimaïlo, 1891: 457.

This name was regarded as a valid species of *Grumia* Della Bruna, Gallo, Lucarelli & Sbordoni, 2000 (DELLA BRUNA *et al.*, 2000a: 31). However, *Grumia* Della Bruna, Gallo, Lucarelli & Sbordoni, 2000 is invalid because it is a junior homonym of *Grumia* Alphéraky, 1892, and was replaced by *Eugrumia* Della Bruna, Gallo, Lucarelli & Sbordoni, 2000 (DELLA BRUNA *et al.*, 2000b: 297).

Notwithstanding this situation, before being transferred to *Eugrumia*, *Erebia herse* Grum-Grshimaïlo was a junior secondary homonym of *Papilio herse* Borkhausen, 1788 (currently regarded as a junior subjective synonym of *Erebia tyndarus* (Esper, 1781) (WARREN, 1936: 284), because both *Papilio herse* Borkhausen and *Erebia herse* Grum-Grshimaïlo were classified then as members of *Erebia* Dalman, 1816 (e. g. GAEDE, 1931: 573, 651). Fortunately, Article 59.2 of the Code (ICZN, 1999: 61) states that "If in a case of secondary homonymy the junior species-group name has not been replaced..., and the relevant taxa are no longer considered congeneric, the junior name is not to be rejected..." Thus, *Eugrumia herse* (Grum-Grshimaïlo, 1891) remains available and valid, whereas *Papilio herse* Borkhausen, 1788 is a junior primary homonym of *Papilio herse* Hufnagel, 1766 (currently treated as a junior subjective synonym of *Argynnis niobe* [Linnaeus, 1758] - Nymphalidae: Heliconiinae) (TUZOV, 2003: 30).

8. *Papilio narcissus* Fabricius, 1798: 428.

This name is currently regarded as a valid species of *Heteropsis* Westwood, 1850 (LEES & MINET, 2003: [773], [788]), but it is a junior primary homonym of *Papilio narcissus* Fabricius, 1775 (currently *Hypochrypsis narcissus* [Fabricius, 1775] - Lycaenidae: Theclinae) (EDWARDS *et al.*, 2001: 231). As correctly indicated by LEES & MINET (2003: [788]), this case needs to be referred to the International Commission on Zoological Nomenclature to decide whether *Papilio narcissus* Fabricius can be retained for this taxon, or should be replaced by the earliest available name (in this case, *Mycales fraterna* Butler, 1868).

9. "*Pararge aegeria* var. *intermedia* Weismann, 1875"

The name "*Pararge aegeria* var. *intermedia*" has been wrongly attributed to "Weismann, 1875" (e. g., SEITZ, 1908: 133, 150; GAEDE, 1931: 255). Actually, this is a myth, as Weismann never published such a name (VERITY, 1953: 13). What Weismann did was refer to a "Mittelform" from the Ligurian coast, Italy, connecting *Pararga* [sic] *egeria* [sic] to its "südliche Varietät" *meione* [sic] (WEISMANN, 1874: 257; 1875: 49). The name *intermedia* was first introduced by HEYNE (1894: 581), but as he provided no description, it is a *nomen nudum*. The name was finally made available by SEITZ (1907), when he applied it to a figure on his plate 45, row a, fig. [2], and is currently treated as a junior subjective synonym of *Pararge aegeria* (Linnaeus, 1758) (GAEDE, 1931; VERITY, 1953).

10. *Lethe rohria borneensis* Kalis, 1933: 69.

This name is currently regarded as a valid subspecies of *Lethe confusa* Aurivillius, 1898 (UÉMURA, pers. comm.), but it is a junior primary homonym of *Lethe darena* var. *borneensis* Staudinger, 1897, currently regarded as a valid subspecies of *Lethe darena* (C. Felder & R. Felder, 1867) (D'ABRERA, 1985: 424). It is replaced herein by *Lethe confusa kalisi* Lamas, **nomen novum**.

11. *Papilio arete* Stoll, 1780: 50, pl. 313, figs. E-F.

Currently regarded as a valid subspecies of *Lethe europa* (Fabricius, 1775) (AOKI *et al.*, 1982: 477). A junior primary homonym of *Papilio arete* Müller, 1764 (currently treated as a junior subjective synonym of *Aphantopus hyperantus* [Linnaeus, 1758]) (LERAUT, 1997: 188). As these names apply to taxa not considered congeneric after 1899, the case needs to be referred to the International Commission on Zoological Nomenclature for a ruling under the plenary power (ICZN, 1999: Art. 23.9.5).

12. *Lethe sinorix obscura* Mell, 1942: 274.

This name is currently regarded as a valid subspecies of *Lethe sinorix* (Hewitson, 1863) (CHOU, 1994: 62), but it is a junior primary homonym of *Lethe callipteris obscura* Nakahara, 1926 (currently treated as a junior subjective synonym of *Lethe callipteris* [Butler, 1877]) (INOMATA & ITAGAKI, 1986: 160, as *Zophoessa callipteris*). It is replaced by *Lethe sinorix xironis* Lamas, **nomen novum**.

13. *Callerebia yphthimoides* Oberthür, 1891: 14, pl. 2, fig. 16.

This name is currently regarded as a valid species of *Loxerebia* Watkins, 1925 (DELLA BRUNA *et al.*, 2000a: 23), but it is a junior primary homonym of *Callerebia yphthimoides* Moore, 1881 (currently *Ypthima yphthimoides* [Moore, 1881]) (TALBOT, [1949]: 326). Although *yphthimoides* Oberthür and *yphthimoides* Moore are spelled differently, they are considered variant spellings of the same derivation and meaning, and thus are homonymous under Art. 58.6 of the Code (ICZN, 1999: 61). However, as these names apply to taxa not considered congeneric after 1899, the case needs to be referred to the International Commission on Zoological Nomenclature for a ruling under the plenary power (ICZN, 1999: Art. 23.9.5).

14. *Papilio nemausiaca* Esper, 1789: 15, pl. 96, figs. 1-2.

This name is currently regarded as a synonym of *Melanargia lachesis* (Hübner, 1790) (BOZANO, 2002: 10). However, as shown by the publication dates elucidated by HEPPNER (1981: 252) and HEMMING (1937: 45), the name *nemausiaca* Esper is definitely older than *lachesis* Hübner. Regrettably, *nemausiaca* cannot be considered a *nomen oblitum*, as has been wrongly interpreted by LERAUT (1997: 189), as it was used as a valid name after 1899 (ICZN, 1999: Art. 23.9.1.1) by OBERTHÜR (1909: 350), who treated it as a “forme géographique” of *Melanargia lachesis*. Therefore, the valid name of this taxon ought to be *Melanargia nemausiaca* (Esper, 1789), **reinstated status**.

Notwithstanding this, if an author considers that the use of *nemausiaca* would threaten stability or universality or cause confusion, and wishes to maintain use of *lachesis*, the matter must be referred to the International Commission on Zoological Nomenclature for a ruling under the plenary power (ICZN: Art. 23.9.3).

15. *Oeneis buddha pygmaea* Gross, 1970: 19.

This name is currently regarded as a valid subspecies of *Oeneis buddha* Grun-Grshimailo, 1891 (LUKHTANOV & EITSCHBERGER, 2000: 10), but it is a junior primary homonym of *Oeneis norna* var. *pygmaea* Sahlberg, 1895 (currently treated as a junior subjective synonym of *Oeneis norna* [Thunberg, 1791]) (PELHAM, pers. comm.). It is replaced by *Oeneis buddha pelhami* Lamas, **nomen novum**.

16. *Euptychia phares boliviana* Hayward, 1957: 116, fig. 4.

This name is currently regarded as a valid species of *Pharneuptychia* Forster, 1964 (LAMAS, 2004: 221), but it is a junior primary homonym of *Euptychia boliviana* Godman, 1905 (currently *Forsterinaria boliviana* [Godman, 1905]) (LAMAS, 2004: 219). It is replaced by *Pharneuptychia haywardiana* Lamas, **nomen novum**.

17. *Papilio hippolyte* Esper, 1783: 164.

This name is currently regarded as a valid species of *Pseudochazara* de Lesse, 1951 (GORBUNOV,

2001: 221), but it is a junior primary homonym of *Papilio hypolyte* Drury, 1782 (currently treated as a junior subjective synonym of *Pseudacraea semire* [Cramer, 1779] - Nymphalidae: Limenitidinae) (ACKERY *et al.*, 1995: 388). Although *hippolyte* Esper and *hypolyte* Drury are spelled differently, they are considered variant spellings of the same derivation and meaning, and thus are homonymous under Art. 58.2 of the Code (ICZN, 1999: 60). However, these names apply to taxa not considered congeneric after 1899, so the case needs to be referred to the International Commission on Zoological Nomenclature for a ruling under the plenary power (ICZN, 1999: Art. 23.9.5).

18. *Satyrus janirioides* Blanchard, 1852: 34.

This name is currently regarded as a valid species of *Quilaphoetus* Herrera, 1966 (LAMAS & VILORIA, 2004: 217), but it is a junior primary homonym of *Satyrus janiroides* Herrich-Schäffer, 1851 (currently *Pyronia janiroides* [Herrich-Schäffer, 1851]) (TENNENT, 1996: 83). Although *janirioides* Blanchard and *janiroides* Herrich-Schäffer are spelled differently, they are considered variant spellings of the same derivation and meaning, and thus are homonymous under Art. 58.15 of the Code (ICZN, 1999: 61). Both names apply to taxa considered congeneric after 1899 (e. g. GAEDE, 1931: 206, 236). Thus, GAEDE (1931: 236) was correct in giving precedence to *Satyrus limonias* Philippi over *S. janirioides* Blanchard, and LAMAS & VILORIA (2004: 217) were mistaken. The valid name of this taxon is *Quilaphoetus limonias* (Philippi, 1859), **reinstated status and new combination**.

19. *Ypthima methora formosana* Fruhstorfer, 1908: 119.

This name is currently regarded as a valid species of *Ypthima* Hübner, 1818 (TAKÁHASHI, 2000: 2), but it is a junior primary homonym of *Ypthima formosana* Matsumura, 1907 (currently treated as a junior subjective synonym of *Ypthima multistriata* Butler, 1883) (INOMATA *et al.*, 2000: 79).

Ypthima formosana was briefly described from Taiwan in a short article (MATSUMURA, 1907: 48). Inexplicably, this taxon was not recorded in Matsumura's initial list of Japanese Satyrinae or his list of Formosan butterflies (MATSUMURA, 1909a, b). Only 10 years later did he mention it again, as a variety of *Y. motschulskyi* Bremer & Grey, 1853 (MATSUMURA, 1919: 10). Later, for some obscure reason, MATSUMURA (1929: 10) decided that his *formosana* (which he now listed as a subspecies of *motschulskyi*) was preoccupied by Fruhstorfer's *formosana*, and replaced the former with the name *formosicola*, which is an unnecessary substitute name.

The nomenclatorial action taken by TAKÁHASHI (2000: 2-3), stating that *Ypthima formosana* Matsumura is a *nomen oblitum*, and *Y. methora formosana* Fruhstorfer is a *nomen protectum*, is invalid, because the conditions required by Article 23.9.1 of the Code (ICZN, 1999: 28) to allow that action are not met. Instead, that author should have referred the matter to the Commission for a ruling under the plenary power (ICZN, 1999: Art. 23.9.3). *Ypthima methora formosana* Fruhstorfer is replaced by *Ypthima taiwana* Lamas, **nomen novum**.

Acknowledgements

Invaluable bibliographical assistance was provided by library staff at Harvard University, Cambridge, Massachusetts, and the Smithsonian Institution, Washington, D. C. My special gratitude to Yoshinobu Uémura (Tsukuba, Japan), Jorge M. González (College Station, Texas), Josef Grieshuber (Bad Griesbach, Germany), and James S. Miller (New York, New York), for tracing down and supplying copies of arcane references. Robert K. Robbins (Washington, D. C.) was kind and patient enough to go through the manuscript, making useful suggestions.

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(Recibido para publicación / Received for publication 25-I-2010)
 (Revisado y aceptado / Revised and accepted 14-III-2010)
 (Publicado / Published 30-VI-2010)