

Case 3573***Papilio narcissus* Fabricius, 1798 (currently *Heteropsis narcissus*; Lepidoptera, NYMPHALIDAE): proposed conservation of the specific name**

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Abstract. The purpose of this application, under Article 23.9.5 of the Code, is to conserve the specific name *Heteropsis narcissus* (Fabricius, 1798), a junior primary homonym of *Hypochrysops narcissus* (Fabricius, 1775). Both names are currently in use to designate separate and well-recognized species, belonging to two distinct genera in two butterfly families from different geographic regions, *Heteropsis* Westwood, 1850 (NYMPHALIDAE from the Malagasy Region) and *Hypochrysops* C. & R. Felder, 1860 (LYCAENIDAE from the Australian region). As both specific names are currently widely used without confusion for taxa in different biogeographic regions, we request the Commission to rule that the name *Papilio narcissus* Fabricius, 1798 be conserved despite being a junior homonym of *Papilio narcissus* Fabricius, 1775.

Keywords. Nomenclature; taxonomy; NYMPHALIDAE; LYCAENIDAE; SATYRINAE; THECLINAE; *Hypochrysops*; *Heteropsis*; *Hypochrysops narcissus*; *Heteropsis narcissus*; Narcissus Jewel; Madagascar; Comoros; Mascarenes; Mauritius; Australia.

1. *Papilio narcissus* Fabricius, 1775 and *Papilio narcissus* Fabricius, 1798 are primary homonyms (Lees et al., 2003; Lamas, 2010). Both are currently widely used for two different species, the first in the family LYCAENIDAE, subfamily THECLINAE, tribe LUCINI, genus *Hypochrysops* in the Australasian tropics, and the second in the family NYMPHALIDAE, subfamily SATYRINAE, tribe SATYRINI, subtribe MYCALESINA, genus *Heteropsis* in the Afrotropics (Malagasy Region). *Heteropsis narcissus* has no regularly used common name and *Hypochrysops narcissus* is known as the Narcissus Jewel; both are well known species. The two species have not been considered congeneric since the 19th century. The junior homonym has six junior subjective synonyms detailed here and replacement with the next available synonym at species level might appear straightforward. However, the species-group name of the relevant populations of the satyrine butterfly from Mauritius lacks a junior synonym, and would require a new name at potential subspecific rank.

2. *Papilio narcissus* Fabricius, 1775 (p. 524; n° 342) was transferred to the genus *Polyommatus* Latreille, 1804 by Godart ([1824], p. 661, then to *Miletus* Hübner,

[1819] by Butler ([1870], p. 159), and finally to its present genus, *Hypochrysops* C. & R. Felder, 1860 by Druce (1891, p. 189). *Papilio narcissus* Fabricius, 1798 (p. 428) was transferred to the genus *Satyrus* Latreille, 1810 by Godart ([1824], p. 551) in which it was maintained by Boisduval (1833, p. 207), to *Coenonympha* Hübner, [1819] by Doubleday (1848, p. 33), and later to *Mycalesis* Hübner, 1818, by Trimen (1866, p. 336), in which it was also included by Butler (1868a, p. 721; 1868b, p. 146; [1870], p. 35). It was later moved to the genus *Henotesia* Butler, 1879 by Aurivillius (1899, p. 63) in which it has frequently been placed (e.g. Roos, 2003), and finally to *Heteropsis* Westwood, [1850] by Lees et al. (2003). The name *narcissus* is in current use in two different genera. As recognised by Lees et al. (2003), under Article 23.9.5 of the Code, it is mandatory to submit an application to the Commission for a decision in the interest of nomenclatural stability.

3. *Papilio narcissus* Fabricius, 1775 (p. 524, n° 342) is currently classified as *Hypochrysops narcissus* (Fabricius, 1775), a well-known Australian lycaenid butterfly species. The type locality was cited as 'nova Hollandia' [= Australia, probably Cooktown, Queensland: (see Sands, 1986, p. 37; Edwards et al., 2001, p. 231)]. The type deposition is at the Natural History Museum, London (BMNH). The type series comprises one male ventrally mounted specimen, BMNH(E) #668218, referred to as 'holotype' by Sands (1986, p. 37) and thus lectotype under Article 74.6 of the Code, a second male dorsally mounted specimen in the Hunterian Museum, Glasgow, GLAHM 127082, thus paralectotype (identified as part of the original Fabricius material by Harish Gaonkar in November 2003 on the website of the Hunterian Museum) and one further paralectotype from Zoological Museum of Kiel University, now on permanent loan to the Zoological Museum of the Natural History Museum in Copenhagen (ZMUC) (see Zimsen, 1964, p. 517 and also Kristensen & Karsholt, 2008a). *Hypochrysops narcissus* has several subjective junior synonyms currently in use to designate up to six subspecies (two, including the nominotypical subspecies, from NE Queensland, Australia and the Torres Strait islands, and up to four other subspecies from Indonesia (Irian Jaya) and Papua New Guinea; see Sands, 1986). Although some subspecies may vary clinally (Braby, 2000, p. 654), its nomenclature is not expected to change significantly. In this case, the most senior available synonym (according to Sands, 1986) is *Hesperia livius* Fabricius, 1793 (p. 315, n° 194). The type material is probably lost (see Zimsen, 1964, p. 563, n° 1067; Edwards et al., 2001, p. 232 and Kristensen & Karsholt, 2008b). TL: 'in Indiis' [recte somewhere in the Australian region, perhaps mainland Australia].

4. *Papilio narcissus* Fabricius, 1798 (p. 428) is the original combination of a well known butterfly species currently classified in *Heteropsis* Westwood, [1850] (type species by monotypy *Heteropsis drepana* Westwood, 1850; Lepidoptera, NYMPHALIDAE: SATYRINAE; see Lees, 1997; Lees et al., 2003; Kodandaramaiah et al., 2010). This species is currently listed as *Heteropsis narcissus* (Fabricius, 1798) (see M.C. Williams, 2007). Its type locality was originally stated as 'ad Cap. Bon. Spei' [Cape of Good Hope, South Africa] and was later corrected to 'Mauritius' by Butler (1868b, p. 146, n° 84 and [1870], p. 35, n° 14). The type material is preserved in the Copenhagen Zoological Museum (ZMUC two specimens: see Zimsen, 1964, p. 581; Lees et al., 2003; Kristensen & Karsholt, 2008b). From the two known syntypes, the dorsally mounted male ZMUC00020829 is here designated as lectotype and the side mounted female ZMUC00020830 as paralectotype. Both specimens apparently

belong to the Mauritius population. The species has been considered valid (Ackery et al., 1995, p. 299; Lees et al., 2003) and is part of a group of at least six morphologically slightly different taxa either treated as separate species (Ackery et al., 1995, pp. 298–299; Turlin, 1994, pp. 373–376) or, more recently, as subspecies of *H. narcissus* (Lees et al., 2003, Tab. 8.50; M.C. Williams, 2007), a situation that might require further resolution. Each *H. narcissus* subspecies is endemic to a separate sub-equatorial Indian Ocean island within the Malagasy Subregion of the Afrotropical Region, specifically in the Comoros, Madagascar and Mascarenes (excluding Rodrigues). By date of publication, we have:

- (a) *Papilio narcissus* Fabricius, 1798 (p. 428). TL (Type locality): [Mauritius].
- (b) *Mycalesis fraterna* Butler, 1868 (p. 145, n° 83, Pl. 3, Fig. 13). TL: ‘Madagascar’. TD (Type Deposition): BMNH.
- (c) *Mycalesis evanescens* Saalmüller, 1884 (p. 91, n° 140). TL: ‘N.-B.’ [= Nosy-Bé]. TD: Frankfurt. Ackery et al. (1995, p. 299) treated *M. evanescens* as a synonym of ‘*Henotesia narcissus fraterna* (Butler, 1868) and Lees (1997, p. 381) considered this taxon to represent just a wet season form of ‘*Heteropsis fraterna*’. Considering that Nosy-Bé was joined to Madagascar during recent glaciations, *M. evanescens* is unlikely to represent an insular subspecies of *Heteropsis narcissus*.
- (d) *Culapa mayottensis* Oberthür, 1916 (p. 228, n° 81, Pl. CCCLXIX, Figs. 3077–3078). TL: ‘île Mayotte’ [Comoro Islands]; TD: BMNH.
- (e) *Culapa borbonica* Oberthür, 1916 (p. 232, n° 84, Pl. CCCLXIX, Figs. 3083–3084). TL: ‘île Bourbon [= Réunion]: Salazie’. TD: BMNH.
- (f) *Culapa comorensis* Oberthür, 1916 (p. 229, n° 82, Pl. CCCLXIX, Figs. 3079–3080). TL: ‘îles Comores’ [= Comoro Islands]. Lectotype collected by Léon Humblot in 1885/1886 attributed to the Anjouan population by Turlin (1994, p. 375, n° 5); status of the Mohéli population therefore requires further evaluation. TD: BMNH.
- (g) *Culapa comorensis salimi* Turlin, 1994 (p. 375, [Pl. 1], Figs 1, 2). TL: ‘Grande Comore: 4/5 km Est de Nioumbadjou Bandalamadji, 640m 15/18.III.1980’ [Comoro Islands]. TD: Muséum National d’Histoire Naturelle, Paris.

No objective, nor other subjective junior synonyms of the name *Papilio narcissus* Fabricius, 1798 are available.

5. The case, involving an application to consider under Article 23.9.5 of the Code a case of primary homonymy already recognized by Lees et al. (2003) and Lamas (2010, p. 199), is relatively straightforward in that it only leaves two options:

- (i) The Commission rules under its plenary power that both names are deemed available (they are unlikely to be confused as the types come from different regions). This course of action was taken for instance in the case of *Papilio sappho* Drury, 1782, a junior primary homonym of *Papilio sappho* Pallas, 1771, nymphalid butterflies currently treated in different genera and biogeographic regions, for which case the Commission ruled that Drury’s name is not invalid by reason of being a junior primary homonym (BZN 63(2): 144–145, June 2006).
- (ii) The Commission recognizes the state of homonymy and the junior homonym, *Papilio narcissus* Fabricius, 1798, would need a replacement name. In this case, the junior homonym would be replaced by a new name, to designate the

Mauritius populations (Lamas, 2010). In order to retain the currently used concept of the species, this new name would be introduced as a subspecies of *Heteropsis fraterna* (Butler, 1868).

6. Both names which have been widely used in previous works (e.g. Manders, 1908; Vinson, 1938; Desegaulx de Nolet, 1982; Ackery et al., 1985; Sands, 1986; Parsons, 1998; Braby, 2000; Guillermet, 2004; J.R. Williams, 2007; M.C. Williams, 2007; Martiré & Rochat, 2008). Because the two species are currently considered valid and are currently placed in genera in different families and occur in different geographical regions and because they cannot be easily confused and will not be considered as congeneric in future, nomenclatural stability would be best promoted by conserving their present usages. For the satyrine butterfly, rather than using the next available synonym at species level (b, para 4) and proposing a new name for the population from Mauritius, it appears less complicated to us to follow the course of action suggested below.

7. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary power to rule that the name *narcissus* Fabricius, 1798, published in the binomen *Papilio narcissus*, is not invalid by reason of being a junior primary homonym of *Papilio narcissus* Fabricius, 1775;
- (2) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *narcissus* Fabricius, 1775, as published in the binomen *Papilio narcissus*;
 - (b) *narcissus* Fabricius, 1798, as published in the binomen *Papilio narcissus*, with the endorsement that it is not invalid by reason of being a junior primary homonym of *narcissus* Fabricius, 1775, as published in the binomen *Papilio narcissus*, as ruled in (1) above.

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