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Nomenclatural notes on some taxa of Gyrinidae, including a replacement name for *Patrus himalayensis* (Vazirani, 1984) (Coleoptera)

Nomenclatorické poznámky k některým taxonům čeledi Gyrinidae, včetně nového náhradního jména pro druh *Patrus himalayensis* (Vazirani, 1984) (Coleoptera)

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Abstract. *Orectochilus* (*Patrus*) *himalayensis* Vazirani, 1984 (currently in the genus *Patrus* Aubé, 1838) is found to be a primary junior homonym of *Orectochilus* (*Orectochilus*) *nuristanicus himalayensis* Ochs, 1955, and thus Vazirani's name is replaced by *Patrus uttarpradeshensis* nom. nov. The var. *maculatus* Pic, 1909 of *Dineutus grandis* (Klug, 1834) is found to be an available name of subspecific rank and a junior synonym of *D. grandis*. Some notes on the publication date of *Patrus* Aubé are given.

NOMENCLATURE

Patrus Aubé, 1838

The genus *Patrus* was created by Aubé (1838b: 724) with *Patrus javanus* Aubé, 1838b: 725 as the single species (type species by monotypy). To my knowledge, Régimbart (1884: 420) was the first to treat *P. javanus* in the genus *Orectochilus* Dejean, 1833, as done by most subsequent authors. However, several authors (e.g. Ochs 1930: 19) used *Patrus* as a subgenus of *Orectochilus*. Miller & Bergsten (2012: 738) restored *Patrus* to generic rank (see also Gustafson & Miller 2013: 86) in the tribe Orectochilini Régimbart, 1882.

Miller & Bergsten (2012: 738) gave "Aubé 1838: 397" and Gustafson & Miller (2013: 86) gave "Aubé 1836: 397" as reference for Aubé's original description of the genus *Patrus*, both referring to the same publication – "Aubé 1836–1838a" (the "*Iconographie*"). This oeuvre of Aubé was issued in several parts (more than three!) over the years 1836 to 1838 (see Guignot 1931–1933: 547–548).

The genus *Patrus* is described on p. 397 of the "*Iconographie*", and this page belongs to the part published in 1838 (see Guignot 1931–1933). Since no exact publishing date in the year 1838 is known, the ICZN (1999: Article 21.3.2) arbitrarily determines it as December 31, 1838.

On the other hand, the preface of Aubé (1838b) (the "*Species*") ends with "Paris, ce 1er août 1838" [août = August], and thus we must assume that the "*Species*" was published earlier than the respective part of the "*Iconographie*". This will have been the reason that Mazzoldi (2003: 29) gave the name *Patrus* as published by Aubé (1838b: 724) and I consider this reference to be correct.

Patrus uttarpradeshensis nom. nov.

= *Orectochilus* (*Patrus*) *himalayensis* Vazirani, 1984: 56 (primary junior homonym of *Orectochilus* (*O.*) *nuristanicus himalayensis* Ochs, 1955: 49).

Georg Hermann Alexander Ochs described a new gyrinid species in 1955, which he split into two subspecies: *Orectochilus* (*Orectochilus*) *nuristanicus nuristanicus* Ochs, 1955: 47 and *Orectochilus* (*O.*) *nuristanicus himalayensis* Ochs, 1955: 49. Both subspecies had been collected by J. Klapperich in Nuristan (north-eastern Afghanistan) during his expedition in the years 1952–1953 (see Klapperich 1954). According to Ochs (1955), the female holotype of the nominotypical subspecies is kept in the Naturhistoriska Riksmuseet Stockholm (Sweden), while the paratypes of this taxon and the male holotype (a single specimen) of *O. n. himalayensis* remained in the Ochs collection (currently preserved in the Senckenberg Naturmuseum Frankfurt am Main, Germany).

Almost 30 years later, Tahil Gianchand Vazirani described another gyrinid species from India (Uttar Pradesh, Nainital District): *Orectochilus* (*Patrus*) *himalayensis* Vazirani, 1984: 56. According to Vazirani, the male holotype (a single specimen) was collected in 1952 and is kept in the P. Pillay collection in the Zoological Survey of India, Calcutta (Kolkata). Due to the restrictive export laws of the Indian government, it was impossible to study this holotype.

According to articles 52.1, 52.2, 53.3 and 57.2 of the ICZN (1999), *Patrus himalayensis* (Vazirani, 1984), published in the original combination *Orectochilus* (*Patrus*) *himalayensis*, is a primary junior homonym of *Orectochilus* (*O.*) *nuristanicus himalayensis* Ochs, 1955, and it is thus permanently invalid. It is irrelevant that Vazirani's taxon was published in another subgenus to that of Ochs (cf. Article 57.4 of the ICZN Code). It is also irrelevant that Ochs (1955) published his taxon as a subspecies of *O. nuristanicus*, because both specific and subspecific names are "species-group names" as referenced in the articles of the ICZN Code cited above. Since there is no junior synonym of *Patrus himalayensis* (Vazirani, 1984), and none of the exceptions given in the ICZN Code (1999: Articles 23.2, 23.9, 57.2.1–57.2.3, 57.8) apply, and since the name is a primary and not a secondary homonym (e.g. ICZN 1999: Articles 59.2 and 60.3), Vazirani's name must be replaced by a new name (replacement name, nomen novum) (cf. ICZN 1999: Article 60.1).

Patrus uttarpradeshensis nom. nov. is here expressly established as replacement name for *Orectochilus* (*Patrus*) *himalayensis* Vazirani, 1984. Both names are objective synonyms with the same name-bearing type (ICZN 1999: Article 72.7), namely the holotype fixed by Vazirani (1984). The specific name is an adjective and relates to the federal state of Uttar Pradesh in northern India. The name is chosen following Vazirani who obviously wanted to give his species a geographical name using an adjective with the suffix "-*ensis*".

Status of *Dineutus grandis* var. *maculatus* Pic, 1909

Maurice Pic described in a footnote (Pic 1909: 153) a new variety of *Dineutus grandis* (Klug, 1834: pl. xxxiv) (generic name given as *Dineutes*). The original text is: "Chez *D. grandis* Klug. on connait aussi des exemplaires à élytres maculés de roux qui peuvent prendre le nom de var. *maculata*; c'est la variété figurée au n° 7 de la planche XXXIV du Symbolæ Physicæ." [= Specimens of *D. grandis* Klug with red spots on the elytra are also known,

these can take the name var. *maculata*; this is the variety figured in No. 7 of plate XXXIV of the Symbolæ Physicæ.]. This name seems to have been overlooked since its description. It is neither included in Mazzoldi (2003) nor in Joel Hallan's (2014) Biology Catalog nor could I find it in any publication at my disposal which deals with *D. grandis*. (I refrain from citing these 48 references.).

According to article 45.6.4 of the ICZN (1999) Code, Pic's name has subspecific rank from its original publication (with Pic as author) for the following reasons:

- it was published before 1961;
- the terms "var." and "variété" are used;
- the name is not expressly given infrasubspecific rank;
- the term "subspecies" (or any equivalent term) is not used for any other taxon in his work; in contrast, the term "var." is used for several other taxa, two of which are *Dineutus subspinosus* (Klug, 1834) var. *notatipennis* Pic, 1909, and *Gyrinus marinus* Gyllenhal, 1808 var. *dorsalis* Gyllenhal, 1808. Both taxa are treated as synonyms, but as available names in Mazzoldi (2003) under the respective valid names (cf. also examples 4 and 5 in Lingafelter & Nearns 2013). Thus, the content of Pic's work does not unambiguously show that the name *maculata* was proposed for an infrasubspecific entity.

Additionally, in accordance with Articles 31.2 and 34.2 of the ICZN (1999) Code, Pic's name must be changed from *maculata* to *maculatus* because the name is undoubtedly an adjective, and thus must agree in gender with the generic name. It is an available name, to be treated as subjective junior synonym of *grandis* Klug, 1834.

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SOUHRN

V článku jsou uvedeny následující nomenklatorické poznámky pro některé druhy čeledi vírníkovitých (Gyrinidae).

Z dat publikování Aubého (1836–1838a, 1838b) prací vyplývá, že rod *Patrus* Aubé byl dříve publikován v Aubého díle „Species" (Aubé 1838b: 724), jak je uvedeno též v palearktickém katalogu (Mazzoldi 2003: 29), a nikoli v Aubého díle „Iconographie" (Aubé 1838a: 397), jak zmiňují např. Miller & Bergsten (2012: 738) nebo Gustafson & Miller (2013: 86).

Podle příslušných článků ICZN (1999) je jméno *Patrus uttarpradeshensis* nom. nov. navrženo jako nové náhradní jméno pro *Orectochilus* (*Patrus*) *himalayensis* Vazirani, 1984 (v současnosti v rodu *Patrus* Aubé, 1838), protože se jedná o mladší primární homonymum jména ze skupiny druhu *Orectochilus* (*O.*) *nuristanicus himalayensis* Ochs, 1955.

Jméno *Dineutus grandis* (Klug, 1834), var. *maculata* Pic, 1909 je shledáno jako použitelné jméno poddruhové úrovně, jeho pravopis je opraven do podoby *D. grandis maculatus* v souladu s gramatickou shodou rodového a druhového jména. Toto jméno je mladším subjektivním synonymem *D. grandis*.