

Case 3337***Hydroporus discretus* Fairmaire & Brisout de Barneville, 1859
(Insecta, Coleoptera): proposed conservation of the specific name**

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Abstract. The purpose of this application, under Article 23.9.3 of the Code, is to conserve the specific name *Hydroporus discretus* Fairmaire & Brisout de Barneville, 1859 for a widespread diving beetle species. An application to conserve the name *Hydroporus discretus*, and to place its senior synonym *Hydroporus neuter* Fairmaire & Laboulbène, 1855 on the Official Index of Rejected and Invalid Specific Names in Zoology was published in 2001 as Case 3147 (BZN 58: 105–107). The case received a majority of Commission votes, but did not achieve the two-thirds required (BZN 61: 59–60), apparently because of inappropriate presentation of the evidence concerning prevailing usage of the name *Hydroporus discretus*. Data presented here unambiguously prove that maintenance of priority of the name *Hydroporus neuter* is not in accordance with nomenclatural stability.

Keywords. Nomenclature; taxonomy; Coleoptera; DYTISCIDAE; *Hydroporus neuter*; *Hydroporus discretus*; diving beetle; Europe; Palaearctic.

1. The name *Hydroporus discretus* Fairmaire & Brisout de Barneville, 1859 (Coleoptera, DYTISCIDAE) is generally used for a species widely distributed in the Palaearctic region, where it is known from Europe, Africa and Asia, including more

than 40 countries from Ireland to China (see Nilsson, 2001, 2003). It is especially common in western, central and northern Europe.

2. An application to conserve the name *Hydroporus discretus*, threatened by its senior subjective synonym *Hydroporus neuter* Fairmaire & Laboulbène, 1855, was published by Fery in 2001 as Case 3147 (BZN 58: 105–107). A comment in support of the application was published by G. Foster in BZN 59: 38 and a comment opposing the application was published by P. Bouchet in BZN 58: 305. The application was voted on twice, the original vote resulting in a majority (but not the required two-thirds) and the revote also not achieving the required majority, the implication being that the name *Hydroporus neuter* Fairmaire & Laboulbène, 1855 retains priority.

3. Two of the nine Commissioners who had voted against the proposal presented their views: as ‘the applicant has not demonstrated that a name so infrequently used as *Hydroporus discretus* needs conservation’ (BZN 58: 305) and ‘evidence presented concerning prevailing usage of the junior synonym *Hydroporus discretus* was insufficient to warrant suppression of its senior synonym *Hydroporus neuter* Fairmaire & Laboulbène, 1854’ (Opinion 2065; BZN 61: 60).

4. In fact, the applicant did not demonstrate sufficient evidence of prevailing usage of the junior synonym *Hydroporus discretus*, which misled some of the members of the Commission. Indeed, the references compiled by the applicant included only well-known catalogues and other publications of outstanding importance. The data presented below unambiguously prove that the maintenance of the priority of the name *Hydroporus neuter* is indeed threatening stability. The name *Hydroporus discretus* has been in continuous use since 1887 and it was treated as a valid name in hundreds of publications since then. We have compiled a list of references (held by the Secretariat) containing 521 publications in which the name *Hydroporus discretus* was used as valid. 143 of these papers were published before 1950, 378 were published since 1950. In contrast, *Hydroporus neuter* was used only once during the entire 20th century, in a most controversial paper by Ádám (1996); critical comments on this paper were published by Nilsson (1998). In the *Coleopterorum Catalogus* (Zimmermann, 1920, p. 83) *Hydroporus discretus* is listed as a valid name and *Hydroporus neuter* is placed among its synonyms. In the *World Catalogue of Insects* (Nilsson, 2001, p. 156) *Hydroporus discretus* is still listed as the valid name and the following note is added after the name *Hydroporus neuter*: ‘To be rejected; CASE 3147’.

5. In the *Catalogue of Palaearctic Coleoptera* (Nilsson, 2003, p. 60) the name *H. neuter* was omitted intentionally in order to guarantee unchallenged validity of the name *Hydroporus discretus*.

6. The conservation of the name *Hydroporus discretus* is supported by 109 water beetle experts from 28 countries, including practically all DYTISCIDAE specialists worldwide. A list of the supporters (containing their names and e-mail addresses) is held by the Secretariat. Numerous supporters sent their comments along with their declaration of support.

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

- (1) to use its plenary power:
 - (a) to rescind Opinion 2065;

- (b) to suppress the name *neuter* Fairmaire & Laboulbène, 1855, as published in the binomen *Hydroporus neuter*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Specific Names in Zoology the name *discretus* Fairmaire & Brisout de Barneville, 1859, as published in the binomen *Hydroporus discretus*;
- (3) to delete the entry for *Hydroporus neuter* Fairmaire & Laboulbène, 1855 on the Official List of Specific Names in Zoology;
- (4) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *neuter* Fairmaire & Laboulbène, 1855, as published in the binomen *Hydroporus neuter*, as suppressed in (1)(b) above.

References

- Ádám, L. 1996. A check-list of the Hungarian caraboid beetles (Coleoptera). *Folia Entomologica Hungarica*, **57**: 5–64.
- Fairmaire, L. & Brisout de Barneville, C. 1859. *Hydroporus discretus*. P. 28 in Fairmaire, L., *Miscellanea entomologica. Troisième Partie. Annales de la Société Entomologique de France*, (3)7: 21–64.
- Fairmaire, L. & Laboulbène, A. 1855. 2e partie. Pp. 181–370 in: *Faune entomologique française ou description des insectes qui se trouvent en France, coléoptères*, vol. 1. xxxv, 665 pp. Deyrolle, Paris.
- Jäch, M.A. 2004. Short note. A new attempt to conserve the name *Hydroporus discretus* Fairmaire & Brisout, 1859 (Coleoptera: Dytiscidae). *Koleopterologische Rundschau*, **74**: 10.
- Nilsson, A.N. 1998. Ádám's checklist of Hungarian Dytiscidae and the stability of Nomenclature. *Latissimus*, **10**: 1–3.
- Nilsson, A.N. 2001. *World catalogue of insects*, vol. 3. Dytiscidae (Coleoptera). 395 pp. Apollo Books, Stenstrup.
- Nilsson, A.N. 2003. Dytiscidae, vol. 1. Pp. 35–78 in Löbl, I. & Smetana, A. (Eds.), *Catalogue of Palaearctic Coleoptera*. Apollo Books, Stenstrup.
- Zimmermann, A. 1920. Dytiscidae, Haliplidae, Hygrobiidae, Amphizoidae. In Schenkling, S. (Ed.), *Coleopterorum Catalogus*, vol. 71. 326 pp. W. Junk, Berlin.

Acknowledgement of receipt of this application was published in BZN **62**: 1.

Comments on this case are invited for publication (subject to editing) in the *Bulletin*; they should be sent to the Executive Secretary, I.C.Z.N., c/o Natural History Museum, Cromwell Road, London SW7 5BD, U.K. (e-mail: iczn@nhm.ac.uk).

Herrmannsen (1849) had designated *Obliquaria subrotunda* Rafinesque, 1820 (currently *Obovaria subrotunda*) as the type species. They established the new genus *Cyclonaias* for *Obliquaria tuberculata*. It is surprising that Ortmann & Walker (1922) cite Herrmannsen's type designation for *Rotundaria* but not his designation for *Obovaria* (pp. 407, 132 in the same volume). However, in this case, Herrmannsen was not the first to select a type. Valenciennes (1827) reported *Obliquaria tuberculata* specimens from Rafinesque, which he says were identified as the type of a new genus, *Rotundaria*. Thus, *Rotundaria* is a senior objective synonym of *Cyclonaias*. *Cyclonaias tuberculata* occurs phylogenetically within *Quadrula* as currently used (Campbell et al., 2005; the result of Serb et al., 2003, reflects a mixing of tissue clips with *Potamilus alatus*) and so *Rotundaria* is not available for species currently placed in *Obovaria*.

Additional references

- Campbell, D.C., Serb, J.M., Buhay, J.E., Roe, K.J., Minton, R.L. & Lydeard, C. 2005. Phylogeny of North American amblymines (Bivalvia, Unionoida): prodigious polyphyly proves pervasive across genera. *Invertebrate Biology*, **124**(2): 131–164.
- Herrmannsen, A.N. 1849. *Indicis Generum Malacozoorum Primorida*, vol. 2. Pp. xxix–xlii, 1–717. Theodore Fischer, Cassells.
- Ortmann, A.E. 1911. A monograph of the najades of Pennsylvania, parts I and II. *Memoirs of the Carnegie Museum*, **4**(6): 279–347.
- Serb, J.M., Buhay, J.E. & Lydeard, C. 2003. Molecular systematics of the North American freshwater bivalve genus *Quadrula* (Unionidae: Amblyminae) based on mitochondrial ND1 sequences. *Molecular Phylogenetics and Evolution*, **28**(1): 1–11.
- Valenciennes, A. 1827. *Coquilles fluviatiles bivalves de nouveau-continent recueillies pendant le voyage de M.M. de Humboldt et Bonpland. Recueil d'Observations de Zoologie et d'Anatomie Comparée . . . par Al. de Humboldt & A. Bonpland*, vol. 2. Pp. 225–237. Smith & Gide, Paris.

Comments on the proposed conservation of the specific name of *Hydroporus discretus* Fairmaire & Brisout de Barneville, 1859 (Insecta, Coleoptera)

(Case 3337; see BZN **64**: 87–89)

(1) R. Angus

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The proposed application to have *Hydroporus neuter* placed on the Official Index of Rejected Names in Zoology has my fullest support. It is wrong that the application to conserve *H. discretus* was rejected, and appears quite outside the norm in recent cases. I gather that the application was rejected because it attracted insufficient favourable comment. My own view is that it appeared such an overwhelmingly compelling case that comment was superfluous. I very much hope that this second attempt succeeds. It would be wrong to lose such a well-known and well-established name as *Hydroporus discretus*, which must be conserved.

(2) E.J. van Nieukerken

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I have now studied the case in detail; it had only briefly passed me before. I think that the authors have had very bad luck, the case is almost enough for the new nomen oblitum (Article 23.9.2 of the Code), apart from this list by *Ádám*. I think that the case was not presented strongly enough and that not enough people have sent positive comments. I strongly agree that the ruling should be reversed and that *Hydroporus discretus* must be conserved as a valid name for a species we have always known as *discretus* – I had never really considered the name *neuter* before.

(3) G. Foster

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Ayr, KA6 5HW, U.K.*

I agree with the need to conserve the name *Hydroporus discretus* by the Commission revising their views and setting aside the name *Hydroporus neuter*. Otherwise the Commission will bring itself into disrepute for failing in its primary duty to stabilise nomenclature.

(4) C.H.S. Watts

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Australia, Australia (e-mail: Watts.Chris@saugov.sa.gov.au)*

I totally agree that the name *Hydroporus discretus* Fairmaire & Brisout de Barneville should be conserved to avoid ‘sinking’ a century of work accessed through that name.

(5) F. Marnell

National Parks and Wildlife Service, 7 Ely Place, Dublin 2, Ireland

The proposed change of name appears to contradict all zoological and nomenclatural sense and I wholeheartedly support your endeavours to have the name *Hydroporus discretus* conserved.

(6) H.V. Shaverdo

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Systematics of the genus *Hydroporus* has been the main focus of my research for more than ten years. In numerous papers on taxonomy, faunistics, ecology, phenology and larval morphology *Hydroporus discretus* was always treated by me under this name. A very important reason to conserve the name *H. discretus* is that recently it has been published as a valid name in two very important catalogues (Nilsson, 2001, 2003). If *H. neuter* is used as a valid name, it would cause considerable nomenclatural confusion.