

**HYDROCHUS MARTINAE MAKHAN REVISITED**

by Alberto Gayoso &amp; Ignacio Ribera

In a recent note on some Iberian *Hydrochus* Ribera *et al.* (1999) suggested that *H. martiniae* Makhan was most likely to be *H. interruptus* Heyden, although the formal synonymy could not be established because of the unavailability in the Deutsches Entomologisches Institut (Eberswalde) (DEI) of the unique type of *H. interruptus* from Sierra de Guadarrama, in central Spain.

We have finally been able to study this type, and can now confirm that the specimens of *Hydrochus interruptus* collected by Perez-Arcas (two in the Kraatz collection, DEI; 14 in the Museo Nacional de Ciencias Naturales, Madrid, MNCN), and the types of *Hydrochus martiniae* (MNCN) (see Ribera *et al.* 1999 for details) seem to belong to the same species.

We therefore propose *Hydrochus martiniae* Makhan, 1996 as a junior synonym of *Hydrochus interruptus* Heyden 1870.

**Type of *Hydrochus interruptus* (DEI)**

Lectotype (by present designation) female, with labels:

"La Granja / Bruck [hw]"; red Syntypus label; "coll. Heyden"; "Coll. DEI / Eberswalde"; "Dtsch. Entomol. / Institut Berlin"; "A. d'Orchymont vid / 1927 [hw]"; "J. Balfour-Browne rev / IV 1956", with "H. interruptus Hey [hw]" in the reverse; "Coll. DEI / Eberswalde", with "H. / interruptus / Heyd. [hw]" in the reverse; "Hydrochus interrup- / tus Heyden Lectotype / FF des. A. van Berge / Henegouwen 1989 [hw]" [Arno's designation was never published]; "Hydrochus / interruptus / Heyd. [hw]".

The specimens is glued on a triangular card. The two metatarsi are lacking, as well as the major part of the two antennae. The last three articles of the right palpi are glued by the specimen. We have dissected the genitalia, now mounted in DHMF in a separate card, and added a lectotype designation label. Measures of the specimen are as follows: length of pronotum, 0.7 mm; length of elytra, 1.95 mm; maximum width of pronotum (anterior margin), 7.4 mm; maximum width of elytra, 1 mm.

**Reference**

RIBERA, I., HERNANDO, C. & AGUILERA, P. 1999. Notes on the status of *Hydrochus interruptus* Heyden and *H. martiniae* Makhan. *Latissimus* 11 22-23.

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**AGABUS BIGUTTATUS (OLIVIER) IN THE THAMES, ENGLAND** by Andy Foster

Following the autumn storms, two female and one male *Agabus biguttatus* were found not far from the sources of the river in the Thames at Kemble (ST 991979) on 29 October 2000. The Watsonian vice-county boundaries include that part of the Cotswolds in North Wiltshire (vc 7) rather than East Gloucestershire (vc 34). There do not appear to be earlier records for either vice-county.

The map is based on 153 records stored electronically and is not yet complete. Solid symbols are for 1980 onwards.

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**HYDRAENA PHYLOGENY**

*Hydraena* is the most speciose aquatic beetle genus. 539 species are listed in the main paper. Despite this, the origins of the genus are in dispute and not yet fully resolved. Everyone appears to agree that it is monophyletic but that is about it. Berthélemy's approach is criticised in the main paper for being too concerned with the number of elytral striae, in one case at least based on an error. Perkins' approach is similarly criticised for its concentration on the hypomeral antennal pocket structure and elytral striation. The present work is based on the cladistics of adult characters, mainly on the head, from 28 species in five supraspecific groupings. This supports the monophyletic, subgeneric status of *Hydraenopsis*. *Haenydra* and *Phothydraena* appear to merit subgeneric status, but the authors believe this cannot be confirmed until the basal lineages of *Hydraena* s. l. are resolved. The selection process for this analysis, which is richly supported by SEM photographs, involved description of eight new species in the second paper, from China, New Guinea, Oman, South Africa, and Vietnam.

JÄCH, M.A., BEUTEL, R.G., DIAZ, J.A. & KODADA, J. 2000. Subgeneric classification, description of head structures and world check list of *Hydraena* Kugelann (Insecta: Coleoptera; Hydraenidae). *Ann. Naturhist. Mus. Wien* 102 B 177-258.

JÄCH, M.A. & DIAZ, J.A. 2000. Descriptions of eight new species of *Hydraena* (Coleoptera: Hydraenidae). *Entomological Problems* 31 (1) 41-58.