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Appendix

During the final preparation of the revision of *Hydrovatus* Motschulsky, published in this volume, an additional undescribed species was detected. Predominantly for practical reasons, the new species is described here.

Hydrovatus perssoni n.sp. Biström & Nilsson

Type locality: Cacheu, 5 km W Bula, Guinéa-Bissau.

Type material (2 m, 6 f): Holotype, m: Guina-Bissau: 1, Cacheu: 5 km W Bula 19/7–92 S. Persson/*Hydrovatus* sp. *sordidus*-gr. Det. A N Nilsson-92 (Zool. mus.

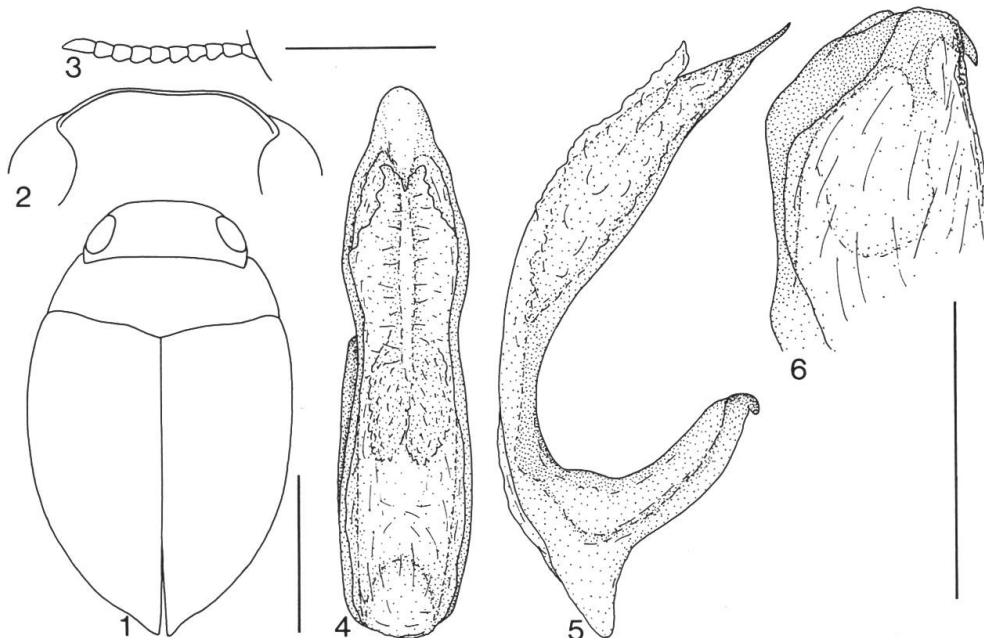
Lund). – Paratypes: Same as holotype (1 ex. Zool. mus. Helsinki, 1 ex. coll. Nilsson); same as holotype but 19/7–92 (1 ex. Zool. mus. Helsinki, 2 exx. coll. Persson, 2 exx. coll. Nilsson); same as holotype but 31.VII.93/*Hydrovatus perssoni* sp.n. det. AN Nilsson –93 (1 ex. Zool. mus. Helsinki, 3 exx. coll. Nilsson & Persson); same as holotype but 4.VII.93/*H. perssoni* sp.n. det. Nilsson –93 (2 exx. Zool. mus. Helsinki; 5 exx. coll. Nilsson & Persson); same as holotype but 22.VII. 93/*H. perssoni* sp.n. det. Nilsson –93 (2 exx. coll. Nilsson & Persson); same as holotype but 12.VII.93/*H. perssoni* sp.n. det. Nilsson –93 (1 ex. coll. Nilsson & Persson); *Hydrovatus* (s.str.) nov. spec./Guinea Bissau Ilha de Bolama: Bolama; Vassado; Pte de Preco Leve; Rice-Field 7.XI.1992 leg. & det. J. Cuppen (1 ex. coll. Cuppen, the Netherlands).

Etymology: Named after Mr. Sven Persson, Sweden, who collected the type material.

Diagnosis and discussion: In the key to species groups (p. 94), the new species fits the species group 9 (sp.gr. *acuminatus*). In the key to species of species group 9 (p. 111), *H. perssoni* fits point 7, at which *H. schawalleri* and *H. collega* are distinguished. From both species, *H. perssoni* is easily separated by the penis, which is provided with a distinct medial constriction (*H. schawalleri* and *H. collega* lack similar medial constriction, see p. 349 and 346).

Description: only diagnostically important differences from redescription of *H. collega* are recognized.

Length of body: 2.32–2.56 mm, breadth: 1.44–1.64 mm. Habitus in Fig. 1.



Figs 1–6: *Hydrovatus perssoni*. – 1, habitus. – 2, head, frontal aspect. – 3, male antenna. – 4, penis, dorsal aspect. – 5, penis, lateral aspect. – 6, apical part of paramere. Horizontal scale 0.5 mm, head and antenna; left scale 1 mm, habitus; right scale 0.4 mm, genitalia.

Head: Ferruginous, frontally generally slightly paler; pale ferruginous. Head frontally narrowly margined; frontal outline medially straight or indistinctly concave (Fig. 2). Antenna slender (Fig. 3).

Pronotum: Ferruginous, laterally with vague paler areas and mediobasally with a narrow, vague, darkened area. Very finely microsculptured; laterally on disc meshes of microsculpture hardly discernible.

Elytra: Dark ferruginous. Laterally and posteriorly elytron becomes gradually paler; at epipleuron pale ferruginous. Without distinct colour pattern.

Male genitalia: Figs 4–6.

Female: Rather indistinctly dimorphous. Externally almost as male, or body-reticulation, although fine, slightly more distinct than in male.

Distribution: Guinea Bissau.

Biology: The new species was collected in two adjacent ponds with sparse marginal vegetation. The ponds were situated in more or less open land and were apparently permanent. Adults were found on 19th and 29th July, whereas subsequent visits in August and September produced no additional specimens.

Table 1. Distribution of relevant characters in taxa. Left vertical column with running numbers 1–19 indicating characters (cf. corresponding numbers in text). Horizontal top column indicating taxa (see below). 1, character represented only by plesiomorphous state; 2 character present both in plesiomorphous and apomorphous state; 3, character present only in apomorphous state. * special cases with further discussion in text.?, status of character unclear. -, character not examined.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	2	1	2	2	1	1	1	?	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	?	1
2	1	1	3	3	1	2	2	1	1	3	3	3	1	1	1	1	1	1	1	1	1*	1	1	1	1
3	1	1	3	3	1	3	2	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3*
5	1	1	3	3	1	1	1	1	1	1*	1*	1	1	1	1	1	1	1	1	1	1	1*	1*	1	1
6	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1
8	1	3	2	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	?	?	1
9	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	3	1	1	3	?	?	?	?	3	3	3	1	1	1	1	1	1	1	1	1	1	3	3	?
11	3	3	1	1	3	3	2	1	?	1	1	1	1	1	1	1	1	?	1	1	1	1	?	?	?
12	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	1	3	1	1	1	1	1	—	3	3	3	3	1	1	3	3	3	3	3	3	3	1	1	1	1
14	1	3	3	1	3	1	2	1	1	1	1	1	1	1	1	1	?	?	?	1	1	1	1	1	3
15	2	1	2	2	1	1	1	?	?	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	2	1	3
17	1	1	1	1	1	!	3	1	1	1	1	1	1	1	?	1	1	1	1	1	?	1	1	1	1
18	2	3	2	1	1	1	2	1	1	1	1	2	1	1	1	1	1	1	1	3	1	1	1	1	1
19	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Taxa examined: 1, *Laccornis* – 2, *Methles*. – 3, *Hydrovatus*. – 4, *Queda*. – 5, *Derovatellus*. – 6, *Herophydrus*. – 7, *Bidessini*. – 8, “*Hydrovatus pasiricus*”. – 9, *Microdytes*. – 10, *Heterhydrus*. – 11, *Pachydrus*. – 12, *Hyphydrus*. – 13, *Platambus*. – 14, *Agabus*. – 15, *Ilybius*. – 16, *Colymbetes*. – 17, *Graphoderes*. – 18, *Acilius*. – 19, *Eretes*. – 20, *Dytiscus*. – 21, *Copelatus*. – 22, *Noteridae*. – 23, *Haliplidae*. – 24, *Gyrinidae*. – 25, *Hygrobiidae*.

