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BEETLES OF THE HALIPLIDAE NOTERIDAE, DYTISCIDAE, GYRINIDAE, HELOPHORIDAE, HYDROCHIDAE, HYDROPHILIDAE, HYDRAENIDAE, ELMIDAE AND DRYOPIIDAE FROM THE NORTHERN VOSGES, FRANCE

by **Sergey K Ryndevich**

The biosphere reserve and regional natural park "Northern Vosges" is 45 km north-west of Strasbourg in the north-east of France in the territory of the Bas-Rhin and Moselle departments of Alsace and Lorraine regions. The administrative centre of the natural park is La Petite-Pierre. The reserve and the park occupy the general area of 1200 km² and are located in the broad-leaved woods zone. The park is situated in the Northern Vosges Mountains reaching from the southwest in the Zorn valley up to the northern border of Germany, ranging from 200 to 580 m above sea level. Data on the regional natural park's water beetles have previously been provided by Callot (1990; 1991a; 1991b; 2001).

Dr M.A. Dzhus and A.O. Lukashuk carried out a survey of water beetles within the framework of a contract for cooperation between the regional natural park and Berezinskiy state biosphere reserve, Belarus. One hundred and three species were recorded from the park (Haliplidae – 5, Noteridae – 1, Dytiscidae – 46, Gyrinidae – 1, Helophoridae – 8, Hydrochidae – 3, Hydrophilidae – 32, Hydraenidae – 4, Elmidae – 1, Dryopidae – 2). Twenty one species are recorded for the first time (marked * below) from the natural park. *Hydrochus flavipennis* Küster is of interest, substantiating the presence of this species in France (Queney 2005). This species was known with certainty only from Croatia, the Ukraine and Azerbaijan (Ryndevich 2003b), other records needing confirmation because this species could be confused with *H. kirgicus* Motschulsky (Hansen 1999).

The checklist below includes the number of the localities in the Northern Vosges and, in parentheses, the number of specimens found.

Localities **1.** La Petite-Pierre, pool, 17.7.1999, leg. Lukashuk A.O. **2.** same data, 29.10.1999. **3.** 1.2 km S.-W. La Petite-Pierre, pond, 28.4.1996, leg. M.A. Dzhus. **4.** 1.5 km S.-W. La Petite-Pierre, pools, 28.4.1996, leg. M.A. Dzhus. **5.** 8 km S. La Petite-Pierre, stream, 19.7.1999, leg. A.O. Lukashuk. **6.** near La Petite-Pierre, bog in a beechen wood, 28.4.1996, leg. M.A. Dzhus. **7.** same data, 16.5.1996. **8.** near La Petite-Pierre, pool, 13.7.1996, leg. M.A. Dzhus. **9.** same data, 24.9.1999, leg. A.O. Lukashuk. **10.** same data, 3.12.1999, leg. A.O. Lukashuk. **11.** same data, pools, 4.8.1999, leg. A.O. Lukashuk. **12.** near La Petite-Pierre, stream, 17.7.1999, leg. A.O. Lukashuk. **13.** same data, 1.9.1999. **14.** same data, 19.9.1999. **15.** near La Petite-Pierre, river Niederbaechel, 2.12.1999, leg. A.O. Lukashuk. **16.** Bitche, pool, 14.8.1999, leg. A.O. Lukashuk. **17.** near Bitche, at light, 5.8.1999, leg. A.O. Lukashuk. **18.** near Bitche, pond, 25.8.1999, leg. A.O. Lukashuk. **19.** near Dambach, river Schwarzbach, 25.09.1999, leg. A.O. Lukashuk. **20.** Étang de Baerenthal, pond, 27.7.1999, leg. A.O. Lukashuk. **21.** Étang de Lieschbach, pond, 26.7.1999, leg. A.O. Lukashuk. **22.** near Neuwiller-lès-Saverne, pool, 19.7.1996, leg. M.A. Dzhus. **23.** near Oberhof, stream, 2.9.1999, leg. A.O. Lukashuk. **24.** Waldeck, pond Waldeck, 26.6.1999, leg. A.O. Lukashuk. **25.** near Waldeck, stream, 8.7.1999, leg. A.O. Lukashuk. **26.** near Erching, stream, 21.7.1999, leg. A.O. Lukashuk. **27.** near La Petite-Pierre, in horse dung, 23.8.1999, leg. A.O. Lukashuk. **28.** Weislingen, in cow dung, 24.6.1999, leg. A.O. Lukashuk. **29.** same data, 13.8.1999, leg. A.O. Lukashuk.

Haliplidae

**Haliplus fluviatilis* Aubé – 18 (1)

Haliplus heydeni Wehncke – (Callot 1990) 8 (1)

Haliplus immaculatus Gerhardt – (Callot 1990)

**Haliplus lineolatus* Mannerheim – 18 (3)

**Haliplus ruficollis* (DeGeer) – 2 (1), 18 (6), 20 (1), 25 (1)

Noteridae

Noterus crassicomis (Müller) – (Callot 1990) 2 (1), 3 (2), 8 (2), 18 (3), 19 (1), 25 (1), 26 (1)

Dytiscidae

Agabus affinis (Paykull) – (Callot 1990; 1991b), 7 (1)

**Agabus biguttatus* Olivier – 23 (1)

Agabus bipustulatus (L.) – (Callot 1990; 1991b), 3 (1), 6 (2), 10 (1), 19 (1), 22 (5), 23 (2), 26 (1)

Agabus guttatus (Paykull) – (Callot 1990; 1991b), 23 (1)

Agabus melanarius Aubé – (Callot 1990), 5 (2), 6 (1), 11 (2), 19 (1), 22 (1)

Agabus paludosus (Fab.) – (Callot 1990; 1991b)

Agabus sturmii (Gyllenhal) – (Callot 1990), 20 (1)

Dytiscus latissimus L. – (Callot 1990)

Dytiscus marginalis L. – (Callot 1990)

Graptodytes pictus (Fab.) – (Callot 1990), 2 (1)

Hydaticus seminiger (DeGeer) – (Callot 1990), 7 (1)

Hydroglyphus geminus (Fab.) – (Callot 1990), 3 (2), 8 (7), 14 (1)

Hydroporus erythrocephalus (L.) – (Callot 1990), 3 (1)

Hydroporus gyllenhalii Schiödte – (Callot 1990; 1991b), 6 (2), 7 (22)

Hydroporus incognitus Sharp – (Callot 1990; 1991b), 6 (7), 7 (5)

Hydroporus longicornis Sharp – (Callot 1990; 1991a, 1991b), 7 (1)

Hydroporus longulus Mulsant & Rey – (Callot 1990; 1991a)

Hydroporus melanarius Sturm – (Callot 1990)

Hydroporus memnonius Nicolai – (Callot 1990), 7 (1)

Hydroporus neglectus Schaum – (Callot 1990; 1991a)

Hydroporus nigrita (Fab.) – (Callot 1990; 1991b)

Hydroporus obscurus Sturm – (Callot 1990; 1991b), 2 (1)

Hydroporus palustris (L.) – (Callot 1990), 12 (2)

Hydroporus planus (Fab.) – (Callot 1990), 2(5), 10 (3), 11 (1), 15 (2), 16 (2), 19 (4), 20 (1), 26 (2)

Hydroporus pubescens Gyllenhal – (Callot 1990; 1991a), 2 (2), 6 (1), 10 (1), 11 (1), 19 (2), 24 (2), 25 (2), 26 (1)

**Hydroporus ruffifrons* (Müller) – 7 (1)

Hydroporus striola (Gyllenhal) – (Callot 1990), 20 (1)

Hydroporus tristis (Paykull) – (Callot 1990; 1991b), 6 (2)

Hydroporus umbrosus (Gyllenhal) – (Callot, 1991a)

Hygrotus decoratus (Gyllenhal) – (Callot 1990)

Hygrotus inaequalis (Fab.) – (Callot 1990), 6 (1)

Hyphydrus ovatus (L.) – (Callot 1990), 3 (1)

Ilybius aenescens Thomson – (Callot 1990)

Ilybius ater (DeGeer) – (Callot 1990), 8 (1)

Ilybius chalconatus (Panzer) – (Callot 1990)

Ilybius fenestratus (Fab.) – (Callot 1990)

Ilybius fuliginosus (Fab.) – (Callot 1990), 5 (1), 8 (2)

**Ilybius similis* Thomson – 18 (1)

Ilybius subaeneus Erichson – (Callot 1990)

Laccophilus hyalinus (DeGeer) – (Callot 1990)

**Laccophilus minutus* (L.) – 10 (3)

Liopterus haemorrhoidalis (Fab.) – (Callot 1990), 8 (1)

Platambus maculatus (L.) – (Callot 1990)

Porhydrus lineatus (Fab.) – (Callot 1990)

Rhantus exsoletus (Forster) – (Callot 1990), 20 (1)

Scarodytes halensis (Fab.) – (Callot 1990)

Gyrinidae

Gyrinus substriatus Stephens – (Callot 1990), 20 (1), 25 (7)

Helophoridae

Helophorus aequalis Thomson – (Callot 2001), 2 (6), 9 (1)

Helophorus aquaticus (L.) – (Callot 2001)

Helophorus grandis Illiger – (Callot 2001), 2 (1), 9 (1)

Helophorus granularis (L.) – (Callot 2001), 1 (1), 3 (1), 8 (32)

**Helophorus griseus* Herbst – 3 (1), 8 (1)

Helophorus minutus Fab. – (Callot 2001)

Helophorus pumilio Erichson – (Callot 2001)

Helophorus obscurus Mulsant – (Callot 2001), 1 (4), 2 (55), 3 (1), 6 (4), 7 (1), 10 (4), 11 (1), 18 (5), 19 (2)

Hydrochidae

Hydrochus angustatus Germar – (Callot 2001), 3 (1)

**Hydrochus flavipennis* Küster – 20 (1)

**Hydrochus ignicollis* Motschulsky – 8 (1)

Hydrophilidae

Anacaena limbata (Fab.) – (Callot 2001)

Anacaena lutescens (Stephens) – (Callot 2001; Ryndevich 2003a), 1 (1), 2 (1), 3 (8), 4 (18), 6 (11), 7 (10), 9 (2), 11 (1), 20 (3)

Anacaena globulus (Paykull) – (Callot 2001; Ryndevich 2003a), 6 (3), 14 (8), 20 (1), 26 (3)

Berosus signaticollis (Charpentier) – (Callot 2001), 2 (4), 3 (1), 8 (1), 17 (1), 19 (1).

Cercyon analis (Paykull) – (Callot 2001)

Cercyon convexiusculus Stephens – (Callot 2001)

Cercyon haemorrhoidalis (Fab.) – (Callot 2001)

Cercyon impressus (Sturm) – (Callot 2001), 27 (6), 28 (1)

**Cercyon lateralis* (Marshall) – 29 (1)

Cercyon melanocephalus (L.) – (Callot 2001), 27 (1)

**Cercyon pygmaeus* (Illiger) – 27 (1), 28 (1)

**Cercyon quisquilius* (L.) – 28 (1)

Cercyon unipunctatus (L.) – (Callot 2001)

Chaetarthria seminulum (Herbst) – (Callot 2001)

Coelostoma orbiculare (Fab.) – (Callot 2001), 2 (1), 24 (11), 25 (1)

Cryptopleurum minutum (Fab.) – (Callot 2001), 28 (8)

Enochrus affinis (Thunberg) – (Callot 2001), 10 (1)

Enochrus coarctatus (Gredler) – (Callot 2001), 2 (1), 8 (1), 16 (1), 24 (1), 25 (4)

Enochrus fuscipennis Thomson – (Callot 2001)

Enochrus ochropterus (Marshall) – (Callot 2001), 24 (1), 25 (3)

**Enochrus quadripunctatus* (Herbst) – 25 (1)

Helochares lividus (Forster) – (Callot 2001)

Helochares obscurus (Müller) – (Callot 2001), 3 (1), 8 (19), 24 (12), 25 (2)

Helochares punctatus Sharp – (Ryndevich 1999; Callot 2001), 8 (1), 17 (1), 18 (2)

Hydrobius fuscipes (L.) – (Callot 2001), 6 (10), 7 (6), 11 (1), 27 (2)

- Laccobius bipunctatus* (Fab.) – (Callot 2001), 2 (1), 22 (1)
Laccobius minutus (L.) – (Callot 2001)
 **Laccobius obscuratus obscuratus* Rottenberg – 1 (1), 8 (1), 13 (1)
Laccobius striatulus (Fab.) – (Callot 2001)
Megasternum concinum (Marsham) – (Callot 2001)
Sphaeridium bipustulatum Fab. – (Callot 2001)
 **Sphaeridium scarabaeoides* (L.) – 28 (8), 29 (5)

Hydraenidae

- Hydraena assimilis* Rey – (Callot 2001)
Hydraena britteni Joy – (Callot 2001)
 **Hydraena riparia* Kugelann – 6 (1)
 **Limnebius truncatellus* (Thunberg) – 1 (2)

Elmidae

- **Elmis maugetii* Latreille – 26 (4)

Dryopidae

- **Dryops luridus* (Erichson) – 2 (1)
 **Dryops nitidulus* (Heer) – 2 (3).

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