

**MATERIALS TO KNOWLEDGE OF AQUATIC AND HYGROPHILOUS BEETLES  
(COLEOPTERA: DYTISCIDAE, HYDROPHILIDAE, HETEROCERIDAE) OF  
THE OPOLE SILESIA REGION**

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**ABSTRACT:** Authors present new localities of 20 species of beetles (Coleoptera: Dytiscidae, Hydrophilidae, Heteroceridae), which have been found in the Opole Region. *Berosus frontifoveatus* Kuwert appeared to be new to the fauna of Lower Silesia.

**KEY WORDS:** Coleoptera, Dytiscidae, Hydrophilidae, Heteroceridae, faunistic, Opole Silesia, S Poland.

Aquatic beetles have been poorly studied in the Opole Region so far. Some old and few data from the territory of Silesia can be found in the Catalogue of the Polish fauna (Burakowski et al. 1976). Presently, there is just one paper about water beetles fauna from this province, with 3 species listed (Czerniawska-Kusza 2001).

Data presented below constitute the outcome of nightly catches conducted at 2 localities in the Opolskie province. Light traps are mostly used to collect moths. However, on this occasion there are many species of beetles flying over, where catching is carried out. Apart from aquatic beetles, the most frequently group observed at those sites were soldier beetles (*Cantharidae*). We used light traps set with white sheet and 200 Watt mercury light bulb). Collecting was conducted between 9 pm and 1 am.

Kolonowskie – Upper Silesia, UTM: CB 11 – inside the forest complex, pine stands in average class of age. Due to the fact that there were no water bodies in the vicinity, potential habitats of aquatic beetles were probably ditches and pits filled with water and partly overgrown with vegetation.

Kamień Śląski – Lower Silesia, UTM: BB 90 – old quarry. Potential habitat of

beetles was probably a bottom of quarry, where rainwater accumulates.

All specimens were collected by Miłosz A. Mazur and determined by Marek Przewoźny (the latter one owns the entire collection).

List of collected species:

1) Kolonowskie, 11.07.2006:

DYTISCIDAE

- *Hygrotus (Coelambus) impressopunctatus* (Schall.) – 1 ex.
- *Hydroporus incognitus* Sharp – 1 ex.
- *Hydroporus palustris* (L.) – 1 ex.
- *Hydroporus tristis* (Payk.) – 2 exx.
- *Ilybius subtilis* (Er.) – 5 exx. ♂♂, 9 exx. ♀♀

HYDROPHILIDAE

- *Helochares (Helochares) obscurus* (O. F. Müll.) – 3 exx.
- *Enochrus (Lumetus) bicolor* (Fabr.) – 3 exx.
- *Enochrus (Lumetus) quadripunctatus* (Herbst) – 2 exx.
- *Enochrus (Methydus) affinis* (Thunb.) – 2 exx.
- *Hydrobius fuscipes* (L.) – 6 exx.
- *Cercyon (Cercyon) bifenstratus* Küst. – 4 exx.
- *Cercyon (Cercyon) marinus* Thoms. – 2 exx.

HETEROCERIDAE

- *Heterocerus fenestratus* (Thunb.) – 1 ex.
- *Heterocerus fuscus* Kiesenw. – 2 exx.

2) Kamień Śląski: 13.07.2006:

DYTISCIDAE

- *Hydroporus tristis* (Payk.) – 1 ex.
- *Ilybius subtilis* (Er.) – 1 ex. ♀
- *Rhantus (Rhantus) suturalis* (Mac Leay) – 1 ex. ♂
- *Laccophilus minutus* (L.) – 1 ex.

HYDROPHILIDAE

- *Berosus (Enoplurus) frontifoveatus* Kuwert – 1 ex. ♂
- *Helochares (Helochares) obscurus* (O. F. Müll.) – 1 ex.
- *Enochrus (Lumetus) bicolor* (Fabr.) – 1 ex.
- *Enochrus (Lumetus) quadripunctatus* (Herbst) – 3 exx.
- *Hydrobius fuscipes* (L.) – 7 exx.
- *Cercyon (Cercyon) marinus* Thoms. – 2 exx.

Among collected species, *Berosus (E.) frontifoveatus* Kuwert is listed for the first time from the territory of Lower Silesia. It is a very rare beetle, so far it has been registered in 5 regions in Poland (Przewoźny and Lubecki 2006).

Another rare species, which has been found while collecting with use of light trap is *Enochrus (L.) bicolor* (F.). It has been recorded so far in 12 regions (Przewoźny et al. 2006). This halophilous beetle occurs in fresh water, it is listed in the “Red List of Threatened Animals in Poland” with category “EN” – endangered with extinction (Pawłowski et al. 2002).

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