

A new record for the Turkish fauna:  
***Cercyon ustulatus*** (Preysslser, 1790)  
(Coleoptera, Hydrophilidae)

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### Summary

A new record for Turkish fauna, *Cercyon ustulatus* (Preysslser, 1790) was shortly described and its distribution in Turkey and world was presented.

**Key words:** Hydrophilidae, *Cercyon ustulatus*, new record, Turkey

**Anahtar sözcükler:** Hydrophilidae, *Cercyon ustulatus*, yeni kayıt, Türkiye

### Introduction

*Cercyon* spp. are common in Nearctic, Palearctic, Ethiopian and Oriental regions. Few species were described in northern parts of the Neotropical region and Australian regions (Hansen, 1991). The studies on this genus in Turkey are very limited. Although 200 species of *Cercyon* are known in the world (Hansen, 1991; Hansen, 1999), only three of them (*C. haemorrhoidalis* Fabricius, 1775, *C. marinus* Thomson, 1853 and *C. putricola* Wollaston, 1867) were previously recorded in Turkey (Incekara et al., 2003). This study adds one new record to the Turkish fauna.

### Materials and Methods

Sieves, ladle and net with 1 mm pores were used to collect samples from shallow areas of various springs, streams and ponds in May 1999 and October 2003. The beetles were killed by using ethyl acetate or 70% alcohol solution.

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Aedeagophores were dissected out under a stereo microscope and exposed to 10% KOH solution for 1-2 h. The figures of aedeagophores were drawn by using a Nikon type 104 microscope.

For determination of the species, publications of Hansen, 1987 and Endrödy-Younga, 1967 were used.

## Results

A species of *Cercyon*, *Cercyon ustulatus* (Preyssler, 1790) (Coleoptera, Hydrophilidae) was recorded for the first time from Turkey.

The members of the genus *Cercyon* Leach, 1817 are characterized by elytral rows of large punctures, long tarsi and mostly terrestrial habitat (Hansen, 1987; Mardzhanyan, 1997). The species may be found in all kinds of decaying organic matter. Very small to moderate sized species (1-6 mm). Body more or less broadly oval, moderately to strongly convex. Dorsal face glabrous, or with extremely fine microscopical hairs. Lateral margins of head rather abruptly narrowed before eyes, not concealing base of antennae; anterior margins of eyes rounded without emargination. Antennae 9-segmented. Elytra with extremely finely punctured striae. Epipleura well developed, broadly visible at least in anterior third. Prosternum well developed, tectiform, in middle ridged, to form a more or less elongate plate. Middle portion of metasternum shining and glabrous, markedly raised.

### *Cercyon ustulatus* (Preyssler, 1790)

Body length 2.8-3 mm. Dorsal face black and glabrous. Antennae 9-segmented with compact 3-segmented club. Basal segment of maxillary palpi distinctly swollen, apical segments symmetrical and slightly longer than penultimate (Fig. 1A). Lateral margins of head narrowed before eyes. Scutellum distinct, its length as long as wide. Pronotum widest at base, posterior margin almost straight. Elytra with finely punctured striae which of them inconspicuous (especially lateral ones). Between striae with microsculpture. Prosternum tectiform, ridged medially. Meso- and metasternum raised in middle. Hind tibia flattened, with fine spines and hardly visible tibial line. Tarsi with dense hydrofuge pubescent, claw segments distinctly longer than others (Fig. 1B). Aedeagophore in general shape (Fig. 1C).

**Material Examined:** Grassy, running fresh water, Meşeli Village, Artvin, 2 ♂♂, 3.7.2001; Rather small pond, along the Erzincan-Kelkit road, near the repair house, Erzincan, 1 ♂, 1 ♀, 6.6.2001.

**Distribution:** Austria, Britain, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Spain, Sweden, Switzerland, Yugoslavia (Hansen, 1999).

## Discussion

Records on the species of *Cercyon* are very limited in the research area. Throughout the studies between 1999 and 2002, only four specimens of

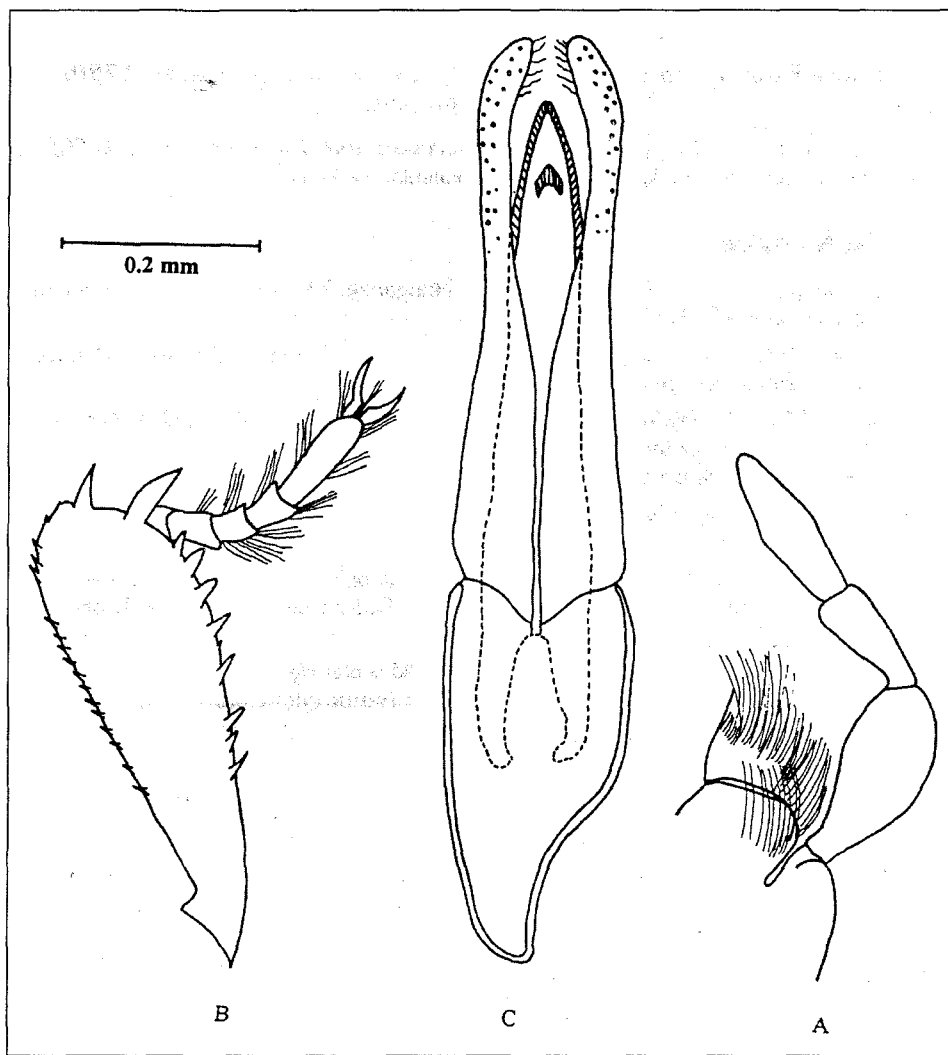


Figure 1. *Cercyon ustulatus*; A) Maxillary palpus, B) Right protarsus, C) Aedeagophore.

*C. ustulatus* were obtained in 2001. Only three species of *Cercyon* genus have been previously recorded (Hansen, 1999) and the number is increased to four with this new record.

The results of previous studies supported our findings regarding the morphological characters, only with an exception for the inconspicuous femoral line.

In Turkey, having various geographical regions and different climates, the number of *Cercyon* species must be much higher than recorded so far. So new studies should be conducted on this group of insects intensively.

## Özet

### Türkiye Faunası İçin Yeni Bir Kayıt, *Cercyon ustulatus* (Preysslér, 1790) (Coleoptera, Hydrophilidae)

Türkiye faunası için yeni kayıt olan *Cercyon ustulatus* (Preysslér, 1790)' un deskripsiyonu yapılmış, Türkiye ve dünyadaki dağılımları verilmiştir.

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