

Short article

The first report of *Ceratophysella stercoraria* (Stach, 1963) (Collembola: Hypogastruridae) from Kermanshah province

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Abstract

The family Hypogastruridae is one of the most common Collembola in the world. This family includes approximately 659 world species in about 40 genera (Park & Park, 2006). The genus *Ceratophysella* also is one of the largest genera of Hypogastruridae, with more than 108 known species (Bellinger *et al.*, 2006).

This study was carried out in Kermanshah region from March to September 2011. Samples were collected from the leaf litter and upper soil layer of fruit orchard in Kermanshah region. The species were extracted by Berlese Funnel and stored in 75% ethanol. After cleaning and preparing, specimen slides were sent to Dr. Dariusz Szarzynski (Zoological Institute of Wroclaw University) for identification. The specimens identified as *Ceratophysella stercoraria* which this species was new for Iran fauna.

Diagnosis

The body (0.8 to 0.9 mm) is spotted brownish-violet, paler ventrally. On two last abdominal terga Granulation is stronger than the other segments. Body hairs moderately long, finely serrated, macrochaetae well differentiated, sensilla comparatively long. Ocelli 8+8, Post antennal organ is about 3 times larger than ocellous. Ventral tube with 4+4 setae. Retinaculum with 4+4 teeth. Furca fully developed. Dens with 7 setae and two times longer than mucro. Mucro typical for the denticulata group (Skarynski, 2000). Most *Ceratophysella* have a small eversible sac between the third and fourth antennal segments (Bernard, 2006) that help them adhere to the substrate when they land after a jump to stabilize themselves (Hopkin, 2002).

Distribution and Ecology

So far this species has been reported in some countries including Kazakhstan, Azerbaijan, Ukraine, Russia, Georgia, Afghanistan, Ethiopia (Babenko *et al.*, 1994), Poland and Bulgaria. Most species of *Ceratophysella* genus are found in forest litter, flood debris, composts and gardens (Skarynski, 2000) and recently two troglophile species of the *Ceratophysella* were described from the cave (Skarzynski *et al.*, 2001; Kaprus *et al.*, 2002)

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Key words: Collembola, Hypogastruridae, *Ceratophysella stercoraria*

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مقاله کوتاه

اولین گزارش گونه *Ceratophysella stercoraria* (STACH, 1963)

از استان کرمانشاه (Collembola: Hypogastruridae)

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چکیده

در این تحقیق که به منظور شناسایی فون پادمان موجود در استان کرمانشاه و طی سال ۱۳۹۰ صورت گرفت، چندین نمونه از پادمان گونه *Ceratophysella stercoraria* (STACH, 1963) برای اولین بار از ایران جمع‌آوری و شناسایی شد. این گونه طی فصل‌های بهار، تابستان و پاییز سال ۱۳۹۰ و از خاک‌برگ و لایه‌های سطحی خاک موجود در پای درختان میوه شهرستان کرمانشاه به دست آمد.

واژه‌های کلیدی: پادمان، *Ceratophysella stercoraria*، Hypogastruridae، Collembola.

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