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NOTES ON THE ANTLIONS (NEUROPTERA, MYRMELEONTIDAE) OF  
THE RYN-DESERT, WESTERN KAZAKHSTAN

There were 8 species of antlions, collected by both the authors in August 1990 and in June 1995 in Urda (Ryn Desert between the Rivers of Volga and Ural, Ural'sk Area of the Western Kazakhstan, 48° 50' N, 47° 20' E, Europe).

*Nohoveus zigan* Asp., Asp. & Hz. (28 specimens), *Lopezus fedtschenkoi* McL. (26 females only, morpha *typica* and morpha *maclachlani* Kriv., both), *Myrmeleon immanis* Walk. (8 specimens), and *Neuroleon* sp. n.? (14) were very frequently collected at the light trap at night.

*Creoleon plumbeus* Ol. did not fly to the light, but could easily be found at night because of the phenomenon of light reflection from the eyes. The eyes of this species were shining with brightly green, if we put the ray of the flashlight away our eyes. With the same manner of radiation, we have collected 20 specimens of *C. plumbeus* at the desert without difficulties. This phenomenon was known for some nocturnal lizards, spiders and butterflies, but for the *C. plumbeus* it was not known. Other species of antlions were tested on this phenomenon without any result.

At midday and before sunset *Myrmecaelurus trigrammus* (Pall.) (2 specimens), *Myrmeleon inconspicuus* Rmb. (3), and *C. plumbeus* (3) were collected between the sand dunes.

The numerous pit constructions of *M. inconspicuus* were found under the pines; four adults were bred from larvae under the laboratory conditions.

At the end of our investigations, the female of *Acanthaclisis pallida* McL., was found flying at light on June 27, before sunrise at the northern range of the sands. It is the first record of *A. pallida* for Europe. The nearest locations of this species are Tshelkar (Akt'yubinsk Area, Kazakhstan), placed more than 800 km to the east, and Fort Shevchenko (Mangystau Area, Kazakhstan), 500 km to the south-south-east. *A. pallida* is a common species in the sand deserts of the Middle and Central Asia.

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ЗАМЕТКИ О МУРАВЬИНЫХ ЛЬВАХ (NEUROPTERA,  
MYRMELEONTIDAE) РЫН-ПЕСКОВ В ЗАПАДНОМ КАЗАХСТАНЕ

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## Реферат

В окрестностях Урды (Рын-пески Уральская обл., Западный Казахстан) поймано и выведено из личинок 8 видов муравьиных львов.

Среди *Lopezus fedtschenkoi* McL. отмечены обе известные цветковые морфы, однако ловились только самки. У *Creoleon plumbeus* Ol. обнаружен феномен зеленого свечения глаз в отраженном свете. Впервые для фауны Европы, по одной самке, прилетевшей на свет, указан *Acanthaclisis pallida* McL., обычный обитатель песчаных пустынь Средней и Центральной Азии.