



## Redescription of *Hesperentomon tianshanicum* Martynova, 1970 (Protura: Acerentomata, Hesperentomidae) and key to *Hesperentomon* species

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### Abstract

*Hesperentomon tianshanicum* Martynova, 1970 is redescribed from type material. Inaccuracies in the original description are corrected, for example, the presence of additional sensillum *b*'2 on foretarsus and presence of *P5a* on mesonotum. Details of the porotaxy are added. Differences are given between the redescribed specimens and Chinese specimens described under the same name by Yin & Xie (non Martynova). Comparative analysis of species chaetotaxy within the genus *Hesperentomon* is given.

**Key words:** Asia, Hesperentominae, key, Kyrgyzstan, taxonomy

### Introduction

Sixteen species of the genus *Hesperentomon* Price, 1960 have been described (Szeptycki 2007, Bu & Yin 2007a, 2007b, Wu & Yin 2008). Almost all of these species are distributed in the eastern Palaearctic, except for a western North American (California) species, *H. macswaini* Price, 1960. The present paper contains a redescription and discussion of *H. tianshanicum* Martynova, 1970, described from the Tian-Shan Mountains (Kyrgyzstan), and comparative analysis of chaetotaxic characters in *Hesperentomon* spp.

### *Hesperentomon tianshanicum* Martynova, 1970

Figs. 1–14, Tables 1–2.

**Material examined.** The species was described on the basis of 12 specimens collected in Tian-Shan Mts. (Kyrgyzstan) on the northern slope of Terske Alatau crest in the spruce forest zone, about 2500 m elev., 17-20.05.1965, coll. P. P. Vtorov. The holotype is a male. Six females and 4 males are labeled "*Hesperentomon tianshanicum* sp. n. paratip/ Kirgiziya Tian Shan 17-V-1965 2530 m Vtorov". The slides with specimens are marked as M3, M4, M8, M9, M10 and M11. The type materials of *H. tianshanicum* are preserved in the Zoological Institute of the Russian Academy of Sciences in St. Petersburg, Russia.

**Redescription.** Head with short setae (Fig. 1). Submedial (*sma*) and sublateral (*sla*) additional setae on posterior part of head present. Pseudoculus elongate, with long posterior extension, PR 10–14 (Fig. 2). Two additional pairs of pores between pseudoculi and in posterior part of head present. Maxillary gland with elongate calyx and short (0.4–0.7 of calyx length) posterior filament, CF 3–4 (Fig. 4). Maxillary palp with slender basal sensilla, dorsal sensillum longer (8 µm) than ventral sensillum (6 µm) (Fig. 3). Labial palp well developed, without basal sensillum; inner margin of labium smooth.