

## Two new free living mite species of *Eustigmaeus* (Actinedida: Raphignathoidea: Stigmaeidae) from Poland, with new data of some other rare species of the genus

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### Abstract

Two new species of the genus *Eustigmaeus* Berlese, 1910 (*E. formosus* sp. n. and *E. brevivestitus* sp. n.) from North Poland are described and figured. The second world record of *E. microsegnis* (Chaudhri, 1965), as well as new data of *E. myrtea* (Chaudhri, 1965) and *E. pinnatus* (Kuznetsov, 1977) are added.

**Key words:** Acari, Stigmaeidae, *Eustigmaeus*, new taxa, new data, Poland

### Introduction

Stigmaeids are prostigmatic mites with well developed palpal thumb-claw complex. Most of them are predators and some species are known to parasitic. However, species of *Eustigmaeus* seem to be rather bryophagous (Gerson 1972). The genus *Eustigmaeus* Berlese, 1910 [syn.: *Ledermuelleria* Oudemans, 1923] contains more than 80 species described up to date. They are usually broad, relatively strongly sclerotized and richly ornamented, encountered often in soil, litter, moss and tree barks. Only a few species of *Eustigmaeus* were recorded from Poland up to present: *E. longisetosus* (Willmann, 1956), *E. anauniensis* (Canestrini, 1889) [syn.: *Ledermuelleria pectinata* (Ewing, 1917)], *E. clavatus* (Canestrini et Fanzago, 1876), *E. myrtea* (Chaudhri, 1965), *E. segnis* (Koch, 1836) and *E. pinnatus* (Kuznetsov, 1977) (Willmann 1956, Kaźmierski, Błoszyk & Michocka 1997, Kaźmierski 2000).

During our studies on prostigmatic mites in North Poland we found five species of mentioned genus: *Eustigmaeus microsegnis*, *E. myrtea*, *E. pinnatus* and two new species described below: *E. formosus* and *E. brevivestitus*. The first new species belongs to “pin-