



Two new species of eriophyid mites (Acari: Eriophyoidea) associated with Elaeagnaceae in Turkey

EVSEL DENİZHAN¹, ROSITA MONFREDA², ENRICO DE LILLO^{2,3} & SULTAN ÇOBANOĞLU¹

¹Plant Protection Department, University of Ankara, Agricultural Faculty, Diskapi/Ankara, Turkey.

E-mail: evsel_denizhan@hotmail.com

²Dipartimento di Biologia e Chimica Agroforestale e Ambientale, sez. Entomologia e Zoologia, via Amendola, 165/a, 70126 Bari, Italy. E-mail: delillo@agr.uniba.it

³Corresponding author

Abstract

Turkish populations of eriophyid mites infesting Elaeagnaceae were examined. Two new species are described and illustrated: *Anthocoptes cellatus* n. sp. was collected on *Hippophae rhamnoides* L. (seaberry), and *Aceria angustifoliae* n. sp. was found on *Elaeagnus angustifolia* L. (Russian olive). A remark on mite mounting was made.

Key words: Eriophyidae, genus re-assignment, Prostigmata, slide mounting, taxonomy, vagrants, weeds

Introduction

Only six eriophyid species are known to be associated with Elaeagnaceae and no other new species are available on the main on-line abstract reviews and databases (*i.e.* CSA Illumina, Biological Abstracts and CAB Abstracts) after the last printed catalogue (Amrine & Stasny 1994). *Aceria eleagnicola* was described by Farkas (1963) on *Elaeagnus angustifolia* L. (Russian olive) in Hungary. It was recorded as vagrant on leaves mainly near ribs, even though leaf deformations were listed by Petanovic and Stankovic (1999) in a sample found in Serbia. This species was reported also in Iran (Haijzadeh *et al.* 2002) and Turkey (Özkan *et al.* 1988). *Aceria hippophaena* (Nalepa) was described on *Hippophae rhamnoides* L. (Sallow thorn) by Trouessart (1891), originally named *Eriophyes nalepai* and later re-named by Nalepa (1898) owing to taxonomical reasons (pre-occupied name). This species was associated to leaf erineae and collected originally in France. Later, it was listed in the fauna of England, Finland, Germany, Italy, Russia, probably also Austria (de Lillo 2004) and on *Elaeagnus orientalis* L. in Armenia (Bagdasarian 1970). *Aculus tibialis* was found vagrant on leaves of *H. rhamnoides* in Finland (Liro 1943). Keifer (1966a, 1966b) described *Aceria shepherdia* from leaf blisters and *Anthocoptes shepherdiae* vagrant on lower leaf surfaces of *Shepherdia argentea* Nutt. (Buffalo berry) in California. Finally, *Thamnacus elaeagnae* Umapathy was collected on *E. indica* Serv. as a leaf vagrant in Kerala region, India (Umapathy 1999).

The spelling applied by Farkas and Umapathy for *A. eleagnicola* and *T. elaeagnae* has not been emended in respect to paragraph 35.5.1 of the International Code of Zoological Nomenclature (1999).

During a survey of the eriophyid mites of Turkey, mainly in the area around Ankara (Denizhan *et al.* 2006, 2007; Denizhan, unpublished observations), mites were collected from Elaeagnaceae.

Those identified as new species are herein described and illustrated.