



## A Review of the Jumping Spider Fauna (Araneae: Salticidae) of Chile

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## Abstract

The salticid fauna of Chile is relatively small, consisting of 21 known species in eight genera. The male and female morphology of each species for which material was available is shown. Two new species, *Dendryphantes villarrica* n. sp. and *Euophrys flordellago* n.sp. are described. *Euophrys pehuenche* Galiano, 1968 is synonymised with *Euophrys rapida* C. L. Koch, 1846. As well, three little known species, *Euophrys saitiformis* Simon, 1901, *Euophrys laetata* Simon, 1904 and *Euophrys rapida* C. L. Koch, 1846 are redescribed from the types. The female of *Dendryphantes fulvipes* is described for the first time. Several earlier described species remain unidentifiable from modern material. Eighteen names are listed as *species inquirenda* as the descriptions are inadequate and the location of the types unknown. Keys to the genera and known species are provided. Remarks on the biology and distribution of each species are given.

**Key words:** *Admesturius*, *Atomosphyrus*, *Dendryphantes*, *Euophrys*, *Hurius*, *Thiodina*, *Trydarssus*, *Tullgrenella*

## Abstract (Spanish)

La fauna chilena de saltícidos es relativamente pobre, siendo de 21 especies ubicadas en ocho géneros. Se presenta la morfología del macho y de la hembra de cada una de las especies a las cuales se disponía de material. Se describen dos especies nuevas: *Dendryphantes villarrica* n. sp. y *Euophrys flordellago* n.sp. *Euophrys pehuenche* Galiano, 1968 es reducido a estado de sinónimo con *Euophrys rapida* C.L. Koch, 1846. Adicionalmente, tres especies poco conocidas— *Euophrys saitiformis* Simon, 1901, *Euophrys laetata* Simon, 1904 y *Euophrys rapida* C.L. Koch, 1846— se vuelven a describir a base de los ejemplares tipos. Por primera vez se describe la hembra de *Dendryphantes fulvipes*. Varias especies, posiblemente legítimas, se desconocen en colecciones modernas. Se considera 18 nombres como *species inquirenda*, ya que sus descripciones originales son inadecuadas y se desconoce la ubicación de los ejemplares tipos. Se presentan llaves para la identificación de los géneros y de las especies conocidas. Se aporta información sobre la biología y distribución de cada especie.

## Introduction

The first salticid species to be described from Chile was *Euophrys rapida* C. L. Koch, 1846, while Nicolet (1849) described a further 29 species. Unfortunately many of Nicolet's names are supported by poor descriptions and the type specimens have not been located. Some however have been found recently (Ramirez 1989) and taxonomies revised accordingly (Ruiz & Brescovit 2008). A new genus, *Thiodina*, based on *Attus elegans* Nicolet, 1849 was described by Simon (1900), followed by further species *Admestina bitaeniata* Simon, 1901, *Euophrys saitiformis* Simon, 1901 and *Euophrys quilpuensis* Simon, 1901, *Atomosphyrus tristiculus* Simon, 1902, *Euophrys laetata* Simon, 1904 and *Euophrys patagonica* Simon, 1905. Modern taxonomic work started when Mello-Leitao began describing species in the 1940's followed by Galiano through to the 1990's. In total, 50 names based on Chilean material are available for consideration which could be allocated to 21 species of eight genera in this study. Some available names based on material from southern Argentina also need to be considered in the Chilean context. No keys to either the genera or the species were hitherto available and the older descriptions were often brief and supported by poor or no illustrations. Many of Nicolet's species cannot be recognized unless the types are re-discovered and these are considered *species inquirenda* here.

The purpose of this work is to redescribe the Chilean salticid fauna; survey a recent, large collection made across temperate Chile (Arias *et al.* 2008) to determine whether the jumping spider diversity is as sparse as it appears from the literature; and, to provide keys allowing more general studies of the fauna to be made. As the study is of the fauna of a limited geographical area, the present generic placements of the species have been retained and will ultimately need to be considered in worldwide generic revisions in most cases. A modern molecular based assessment of the placement of many of the genera considered here (*Admesturius*, *Atomosphyrus*, *Dendryphantes*, *Euophrys*, *Hurius*, *Thiodina*) can be found in Maddison and Hedin (2003).