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Perlidae (Plecoptera) from Southeastern Santa Catarina State, Southern Brazil

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Abstract

Seven species of Perlidae (Plecoptera) from southeastern Santa Catarina State, (Brazil) were studied: *Anacroneuria fiorentini* De Ribeiro & Froehlich, *A. ofaye* Froehlich, *A. trimacula* Jewett, *Kempnyia mirim* Froehlich, *K. neotropica* (Jacobson & Bianchi), and *K. tenebrosa* Klapálek. A new species, *A. xokleng* is also described.

Key words: taxonomy, streams, aquatic insects

Resumo

Sete espécies de Perlidae (Plecópteros) da região sudeste de Santa Catarina (Brasil) foram estudadas: *Anacroneuria fiorentini* De Ribeiro & Froehlich, *A. ofaye* Froehlich, *A. trimacula* Jewett, *Kempnyia mirim* Froehlich, *K. neotropica* (Jacobson & Bianchi) e *K. tenebrosa* Klapálek foram registradas. Uma nova espécie, *A. xokleng*, é descrita.

Palavras chave: taxonomia, riachos, insetos aquáticos

Introduction

The Plecoptera of Santa Catarina State (approximately 95,000 km²) of southern Brazil is one of the best known of that order for the country, primarily because of the large number of the specimens collected by Fritz Plaumann in the mid-twentieth century. His specimens were deposited in various museums throughout the world. However, his collections did not include the entire state and were mostly concentrated in the region of Nova Teutonia in the western portion of the State. Other important collections of Plecoptera were by W. Ehrhardt and A. Maller in the region of Corupá (formerly Hansa-Humboldt) in northern Santa Catarina State. This material formed the basis for two contributions that added much to the knowledge of the Plecoptera from Santa Catarina State (Jewett, 1959; Froehlich, 2002). Additionally, stoneflies collected in other regions of the state have also been studied (see Froehlich, 1988, Froehlich, 1998; 2011; Lecci & Froehlich, 2011). Despite the above relatively good treatment of the Plecoptera fauna of the State, little information is available for the stoneflies of the southeastern region of the State. In this paper, specimens of Perlidae from southeastern Santa Catarina State were studied. Comments on six species of Perlidae are presented and a new species of *Anacroneuria* Klapálek 1909 is described.

Material and methods

The material studied was collected by the first author (MCN) and by the team of Dr. Luiz Carlos de Pinho (LCP), from the Federal University of Santa Catarina (UFSC). This team included the students Matheus Feldstein Haddad (MFH); Ana Lara Schlindwein (ALS), and Luan Silva Gomes (LSG). The specimens were collected using light

Remarks. The above single male has forewing length of 14.1 mm and a total length of 18.0 mm. The penial armature (Figs. 40–42) agrees well with the concept presented by Froehlich (2011).

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