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## A new species of *Anchylorhynchus* Schoenherr (Coleoptera: Curculionidae) from the Amazon, with a record of a new host palm for the genus

ROBERTA DE MELO VALENTE<sup>1</sup> & BRUNO AUGUSTO SOUZA DE MEDEIROS<sup>2</sup>

<sup>1</sup>Universidade Federal do Pará, Instituto de Ciências Biológicas, Laboratório de Invertebrados. E-mail: rvalente@ufpa.br

<sup>2</sup>Museum of Comparative Zoology, Department of Organismic & Evolutionary Biology, Harvard University.  
E-mail: souzademedeiros@fas.harvard.edu

### Abstract

*Anchylorhynchus vanini* sp. nov. from the Amazon is described, including the mouthparts and male genitalia. The new species is compared with similar species within the genus and the key to the species of *Anchylorhynchus* provided by Vaurie (1954) is modified to include the new species. Adult specimens were collected in flowers of the palm *Syagrus vermicularis* Noblick and additional collections in other palms species suggest that this association is specific. This is the first record of the palm *Syagrus vermicularis* as host for a species of *Anchylorhynchus*.

**Key words:** Acalyptini, Derelomina, Weevil, Neotropical

### Introduction

The genus *Anchylorhynchus* Schoenherr currently has 22 valid species distributed in the Neotropical region from Panama to Argentina (de Medeiros & Núñez-Avellaneda 2013; O'Brien & Wibmer 1982; Vanin 1995; Wibmer & O'Brien 1986), and was last revised by Vaurie (1954). Since then, five new species have been described and the genus was moved from the Petalochilinae to the Acalyptini, subtribe Derelomina (Bouchard *et al.* 2011; Franz 2006). Most of the described species are found in the Cerrado and Mata Atlântica biomes in southeastern Brazil, with only seven species recorded from the Amazonian region (*A. amazonicus* Voss; *A. tricarinatus* Vaurie; *A. bicarinatus* O'Brien; *A. gottsbergerorum* Vanin; *A. pinnocchio* de Medeiros & Núñez-Avellaneda; *A. centrosquamatus* de Medeiros & Núñez-Avellaneda; and *A. luteobrunneus* de Medeiros & Núñez-Avellaneda). Remarkably, all the new species of *Anchylorhynchus* described since Vaurie (1954) are from the Amazon or Central America, indicating that the diversity of *Anchylorhynchus* in the region has just started to be explored. Adults of *Anchylorhynchus* are associated with and often collected in palm flowers, mostly in species of *Cocos* L., *Butia* (Becc.) Becc., *Syagrus* Mart. and *Oenocarpus* Mart. (de Medeiros & Núñez-Avellaneda 2013; Franz & Valente 2005; Vaurie 1954). Adults feed on pollen (de Medeiros & Núñez-Avellaneda 2013; Bondar 1940; Silberbauer-Gottsberger 1990) and oviposit in female flowers (de Medeiros & Núñez-Avellaneda 2013; Silberbauer-Gottsberger 1990), with larvae feeding internally on female flowers and maturing fruits (da Silva *et al.* 2011).

The first author conducted a survey of weevils associated with palms in the area of the mining project “Níquel Vermelho (Canaã dos Carajás, Pará, Brazil) in the Brazilian Amazon between 2004 and 2005 and found specimens of *Anchylorhynchus* in the flowers of *Syagrus vermicularis* Noblick. Also in the Brazilian Amazon, additional specimens were collected from the same host in the Serra das Andorinhas State Park (São Geraldo do Araguaia, Pará, Brazil) in 2011. The specimens from both localities turned out to be a new species of *Anchylorhynchus* from the Amazonian region, which we describe and illustrate here.