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The tiger beetles (Coleoptera: Carabidae, Cicindelinae) of Angola: a descriptive catalogue and designation of neotypes

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Abstract

An annotated catalogue of the species and subspecies of tiger beetles (Coleoptera: Carabidae, Cicindelinae) hitherto known from Angola is given. A total of 89 forms (74 species and 15 subspecies) is recorded from this southwestern country of Africa. Within this assemblage there are 31 endemic forms (33.3%). Some species are represented by only the holotype specimen (some without locality) or the type series. Others were recorded based on a single specimen. Records for six species previously unknown from Angola are given: *Foveodromica* sp. n. 1, *Foveodromica* sp. n. 2, *Ophryodera rufomarginata bradshawi* Péringuey, 1888, *Elliptica muata parallelestriata* (W. Horn, 1923), *Lophyra differens* (W. Horn, 1892) and *Myriochila jucunda* (Péringuey, 1892). A historical review, as well as some considerations on the distribution and conservation status of these beetles in Angola are also presented.

Key words: tiger beetles, catalogue, neotypes, new records, Angola

Resumo

Neste trabalho é apresentado um catálogo comentado das espécies e subespécies de coleópteros cicindelíneos (Coleoptera: Carabidae, Cicindelinae) conhecidas até agora de Angola. Um total de 89 formas (74 espécies e 15 subespécies) foram compiladas e registadas para este país da África Ocidental. Dentro deste conjunto há 31 formas endémicas (33.3%). Algumas espécies estão representadas apenas pelo holótipo (algumas também sem indicação do local de captura) ou pelos exemplares da série tipo. Outras foram registadas com base somente num exemplar. São ainda dados seis novos registos para Angola: *Foveodromica* sp. n. 1, *Foveodromica* sp. n. 2, *Ophryodera rufomarginata bradshawi* Péringuey, 1888, *Elliptica muata parallelestriata* (W. Horn, 1923), *Lophyra differens* (W. Horn, 1892) e *Myriochila jucunda* (Péringuey, 1892). Uma resenha histórica, assim como algumas considerações sobre a distribuição e estado de conservação destes coleópteros em Angola é também apresentada. Tendo em consideração a sua localização em África e a sua enorme diversidade de habitats, uma pesquisa futura direccionada especificamente ao grupo irá certamente resultar em novas descobertas e num melhor conhecimento dos cicindelíneos de Angola.

Palavras chave: escaravelhos-tigre, catálogo, neótipos, novos registos, Angola

Introduction

Tiger beetles are a group of Geadephagan Coleoptera for which there is considerable biological, natural history, and distributional information (Serrano 2000; Pearson & Vogler 2001). However, within this group the taxonomic status of tiger beetles has been controversial (see Ball *et al.* 2011). Recent phylogenetic analyses of the Geadephaga have consistently placed tiger beetles within the Carabidae, in a basal position, or situated the group higher in the tree (see references in Ball *et al.* 2011). However, Cassola (2001) and Putschkov and Cassola (2005) based on both adults and larvae characters (morphology, ecology, paleogeography and biogeography) claimed family status for tiger beetles (see also Cassola 2012). The comprehensive knowledge of tiger beetles has been used as an argument

TABLE 2. (Continued)

Species/subspecies	Gabon	Congo	D.R. Congo	Zambia	Zimbabwe	Malawi	Tanzania	Mozambique	Namibia	South Africa	Other
<i>Ropaloteres leucopictus leucopictus</i>			+								+
<i>Ropaloteres marshalli</i>			+		+	+					
<i>Ropaloteres regina</i>			+	+							
<i>Hipparidium interruptum</i>		+	+								+
<i>Calomera asperula</i>			+								+
<i>Calomera fimbriata imperatrix</i>			+			+	+	+	+		+
<i>Lophyra (s. str.) differens</i>				+	+	+	+	+	+	+	+
<i>Lophyra (s. str.) endroedyi</i>									+		
<i>Lophyra (s. str.) neglecta neglecta</i>	+	+	+								+
<i>Lophyra (s. str.) neglecta intermediola</i>			+	+	+	+	+	+	+	+	+
<i>Lophyra (s. str.) obliquograciliaenea</i>		+	+								
<i>Lophyra (s. str.) reliqua</i>			+	+	+	+			+	+	
<i>Lophyra (Stenolophyra) infuscatula</i>			+				+				
<i>Lophyra (Stenolophyra) obtusidentata</i>									+		
<i>Lophyra (Stenolophyra) saraliensis saraliensis</i>		+	+	+	+	+	+				+
<i>Lophyra (Stenolophyra) uncivittata</i>		+	+	+	+	+					
<i>Habrodera cabinda</i>	+		+								
<i>Habrodera nilotica nilotica</i>		+	+			+	+	+		+	+
<i>Habrodera nitidula nitidula</i>	+		+								+
<i>Cylindera (Ifasina) lutaria</i>			+							+?	+
<i>Cylindera (Ifasina) octoguttata octoguttata</i>	+	+	+						+	+	+
<i>Myriochila (Monelica) jucunda</i>				+?	+?		+?		+		
<i>Myriochila (Monelica) vicina vicina</i>	+	+	+			+	+				+
<i>Myriochila (s. str.) melancholica</i>		+	+	+		+	+	+	+	+	+
<i>Cratohaerea confusa</i>			+								
<i>Eurymorpha cyanipes</i>									+		

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