



## On the *pseudoterrestris* species group of the spider genus *Coelotes* (Araneae, Amaurobiidae)

XIN-PING WANG<sup>1,3,4</sup>, CHARLES E. GRISWOLD<sup>2</sup> & DARRELL UBICK<sup>2</sup>

<sup>1</sup>College of Life Sciences, Hebei University, Baoding, Hebei 071002, China

<sup>2</sup>Department of Entomology, California Academy of Sciences, San Francisco, California 94118, USA

<sup>3</sup>Research Associate, Department of Entomology, California Academy of Sciences, San Francisco, California 94118, USA

<sup>4</sup>Corresponding author. Email: wang@amaurobiidae.com, xinping\_wang@yahoo.com

### Table of contents

Abstract .....	1
Introduction .....	2
Material and methods .....	2
Taxonomy .....	3
Amaurobiidae Thorell 1870 .....	3
Coelotinae F.O.P.-Cambridge 1893 .....	3
<i>Coelotes</i> Blackwall, 1841 .....	3
The <i>pseudoterrestris</i> Group .....	3
Key to species .....	3
<i>Coelotes acicularis</i> <b>sp. nov.</b> .....	4
<i>Coelotes guangxian</i> Zhang et al. 2003 .....	10
<i>Coelotes pseudoguangxian</i> <b>sp. nov.</b> .....	11
<i>Coelotes pseudoterrestris</i> Schenkel 1963 .....	13
<i>Coelotes pseudoyunnanensis</i> <b>sp. nov.</b> .....	19
<i>Coelotes suthepicus</i> Dankittipakul et al. 2005 .....	23
<i>Coelotes thailandensis</i> Dankittipakul & Wang 2003 .....	26
<i>Coelotes yunnanensis</i> Schenkel 1963 .....	29
<i>Coelotes yanhengmei</i> <b>sp. nov.</b> .....	32
Acknowledgements .....	33
References .....	33

### Abstract

Nine species of the spider genus *Coelotes* are described from China and Thailand, and assigned to the *pseudoterrestris* species group. Six of the species are described from both sexes (*Coelotes acicularis* **sp. nov.**, *C. guangxian* Zhang et al. 2003, *C. pseudoterrestris* Schenkel 1963, *C. pseudoyunnanensis* **sp. nov.**, *C. suthepicus* Dankittipakul, Chami-Kranon & Wang 2005 and *C. thailandensis* Dankittipakul & Wang 2003) and three from the female only (*C. pseudoguangxian* **sp. nov.**, *C. yunnanensis* Schenkel 1963 and *C. yanhengmei* **sp. nov.**). Significant morphological variation in the epigynum and vulva was found in *C. pseudoterrestris*, a species widespread from eastern to western Yunnan. The combination of significant genitalic variation and widespread occurrence suggest that *C. pseudoterrestris* may be a cryptic species complex, but this hypothesis needs to be justified by further collection of both male and female specimens from other localities.

**Key words:** Gaoligongshan, Yunnan, China, Chiang Mai, Thailand, *Coelotinae*