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A new *Phaeogenini* species from Peru (Insecta, Hymenoptera, Ichneumonidae, Ichneumoninae)

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Abstract

Dicaelotus denticoxae **sp. n.** of the tribe Phaeogenini is described. This is the first record of the genus *Dicaelotus* WESMAEL, [1845] for Peru.

Resumen

En el presente trabajo se describe *Dicaelotus denticoxae* **sp. n.** de la tribu Phaeogenini. Es el primer registro del género *Dicaelotus* WESMAEL, [1845] para el Perú.

Introduction

The Tribe Phaeogenini is widely distributed across the globe, with many species in the Neotropics. Most of the Neotropical species described so far are known from western South America, mainly the Andean region and other temperate climate zones. CARRASCO (1972) cited the genus *Phaeogenes* for Peru, but without description of a species. This was included in RODRÍGUEZ-BERRÍO et al.'s (2009) checklist of Peruvian Ichneumonidae, but we consider this determination as questionable.

Seven species of the genus *Dicaelotus* have been described from the Neotropics: *Dicaelotus confutator* DILLER, 1987, Brazil; *Dicaelotus coxaecarinatus* DILLER, 1987, Ecuador; *Dicaelotus gusenleitneri* DILLER, 2009, Chile; *Dicaelotus jaliscoensis* DILLER, 2009, Mexico; *Dicaelotus neotropicensis* DILLER, 2009, Bolivia; *Dicaelotus punctitergum* DILLER, 2009, Mexico; *Dicaelotus schachtii* DILLER, 1987, Ecuador.

Methods

Photographs were taken with a Leica Z16 APO macroscope with Dome Light LED5000 HDI and an attached Nikon 1 V1 camera, and afterwards composed with Photoshop CS6. One picture was made using an auto assembly process with analySIS soft imaging system and combineZM.

BMNH: The Natural History Museum, London.

Taxonomy

Dicaelotus denticoxae **sp. n.** (Figs 1-4)

Holotype: ♀, PERU: Junin. Pan de Azucar km 83 Tarma to San Ramon 1400m iii M. COOPER; coll. BMNH (E) 2005-152 (BMNH)

Female: Body length 6,2 mm.

Head (Figs 1, 2). Shining. Supra-antennal fovea weakly concave with fine transverse striae, scarcely punctate. Frons densely punctate, very finely coriaceous. Face finely, densely punctate and coriaceous. Supraclypeal area flat and quadrate, punctate and finely coriaceous, clearly separated from clypeus by a rather deep groove (Fig. 3). Clypeus convex, shining, scarcely punctate (Fig. 3). Mandible broad, lower tooth distinctly shorter than upper tooth. Malar space as long as base of mandible. Vertex broad, shining, punctate and coriaceous (Fig. 2). Temple broad, shining, punctate. Genal carina meeting hypostomal carina directly at base of mandible. Flagellum (Fig. 1) with 26 segments, basal segments of flagellum slenderer, flagellar segments 1-9 longer than broad.

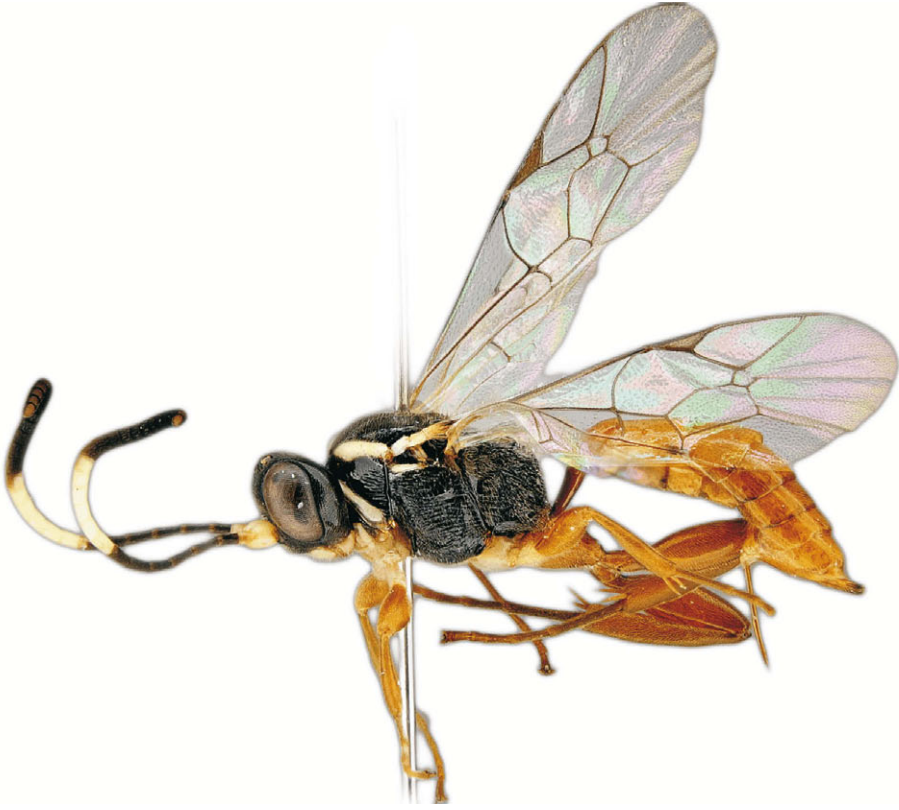


Fig. 1: *Dicaelotus denticoxae* sp. n., lateral view.



Fig. 2: *Dicaelotus denticoxae* sp. n., dorsal view.



Fig. 3: *Dicaelotus denticoxae* sp. n., head, frontal view.



Fig. 4: *Dicaelotus denticoxae* sp. n., hind coxae.

Thorax. Pronotal collar short. Mesoscutum shining, punctate, centrally with longitudinal striae (Fig. 2). Notaulus not impressed. Scutellum with lateral carinae on basal half, smoothly shining, sparsely punctate. Pronotum smoothly shining, middle and ventral part with strong transverse striae. Mesopleuron shining with strong transverse striae (Fig. 1). Speculum smoothly shining. Sternaulus impressed on anterior third of mesopleuron. Prepectus smoothly shining, scarcely punctate. Propleuron shining, scarcely punctate.

Propodeum. Shining. Area basalis missing. Area superomedia longer than wide, heart-shaped, shining and with irregular striae (Fig. 2). Costula arising nearly at centre of area superomedia. Area petiolaris shining with strong transverse striae. Area posteroexterna shining with strong irregular striae. Areae superoexterna shining with irregular striae. Area dentipara shining with longitudinal striae. Area spiracularis shining with irregular striae. Spiracle small, round. Area metapleuralis shining with strong longitudinal striae. Area coxalis shining, coriaceous.

Wings. Areolet pentagonal. Hind wing nervellus (*Cu* + *cu-a*) about vertical. Distal abscissa of *Cu* (discoidella) weak.

Legs. Smoothly shining, weakly punctulate. Coxae and trochanters smoothly shining and weakly punctulate. Hind coxa smoothly shining and punctate with a small tooth apically, ventrally (Fig. 4, arrows). Tibia and tarsus duller.

Metasoma. Smoothly shining. Postpetiolus smoothly shining, sparsely punctate (Fig. 2). Tergite 2 about as wide as long, smoothly shining and very finely punctate. Thyridium nonexistent. Tergites 3-7 transverse, shining, sparsely and very finely punctate. Ovipositor far anterior to apex.

Colour. Black. Clypeus, mandibles, palpi white (Fig. 2). Flagellum black, scape, pedicel, flagellar segments (6) 7-12 white. Pronotal collar, humeral bar, subtegular ridge, tegula, base of wings white (Figs 1, 2). Legs reddish (Fig. 1). Fore and mid coxae and trochanters white. Hind coxa basally, dorsally somewhat white yellowish. Metasoma reddish (Figs 1, 2).

Male. Unknown.

Differential diagnosis.

Dicaelotus denticoxae sp. n. ♀ can be separated from *Dicaelotus coxaecarinatus* DILLER, 1987, ♀ by the following combination of characters: scape and pedicel white (brown in *coxaecarinatus*); frontal orbits, face, mesopleuron, propodeum black (in *coxaecarinatus* frontal orbits white, mesopleuron and propodeum reddish); mesopleuron with strong transverse striae (smoothly shining in *coxaecarinatus*); hind coxa with a small tooth (with two small oblique transverse carinae in *coxaecarinatus*).

Etymology. The name of *Dicaelotus denticoxae* sp. n. refers to the small teeth on the hind coxae.

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References

- CARRASCO, F. 1972: Catálogo de la familia Ichneumonidae Peruanos. – Revista Peruana de Entomología **15** (2): 324-332.
- DILLER, E. 1987: Erstnachweise von Arten der Gattung *Dicaelotus* WESMAEL, [1845] für die Neotropis (Hymenoptera, Ichneumonidae, Phaeogenini). – Entomofauna **8** (12): 473-484.
- DILLER, E. 1994: Beschreibung einer neuen Subtribus, neuer Gattungen und Arten der Tribus Phaeogenini (Insecta: Hymenoptera: Ichneumonidae: Phaeogenini). – Annalen des Naturhistorischen Museums Wien **96B**: 125-136.
- DILLER, E. & K. SCHÖNITZER 1995: Eine neue Gattung und Art der Phaeogenini aus der neotropischen Region (Insecta: Hymenoptera, Ichneumonidae, Ichneumoninae). – Entomofauna **16** (26): 453-461.
- DILLER, E. & K. SCHÖNITZER 1997: Eine neue Gattung und Art der Subtribus Dicaelodontina aus Mittelamerika: *Hintelmannia elisabethae* (Insecta, Hymenoptera, Ichneumonidae, Ichneumoninae, Phaeogenini). – Spixiana **20** (3): 317-322.

- DILLER, E. & K. SCHÖNITZER 1999: Beschreibung neuer Arten und Unterarten einer neuen Gattung der Subtribus Dicaelodontina (Hymenoptera, Ichneumonidae, Ichneumoninae, Alomyini). – Mitteilungen der Münchner Entomologischen Gesellschaft **89**: 59-70.
- DILLER, E. & K. SCHÖNITZER 2009: Verbreitung neotropischer Phaeogenini der Gattung *Dicaelotus* WESMAEL, [1845], mit Beschreibungen neuer Taxa (Insecta, Hymenoptera, Ichneumonidae, Ichneumoninae, Phaeogenini). – Linzer biologische Beiträge **41** (2): 1089-1102.
- DILLER, E., RIEDEL, M., MELZER R. R. & K. SCHÖNITZER 2009: Neotropische Phaeogenini mit Beschreibung neuer Arten der Gattung *Tycherus* FOERSTER, [1869], (Hymenoptera, Ichneumonidae, Ichneumoninae, Phaeogenini). – Mitteilungen der Münchner Entomologischen Gesellschaft **99** Suppl.: 3-95.
- RODRÍGUEZ-BERRÍO, A. R., BORDERA, S. & I. SÄÄKSJÄRVI 2009: Checklist of Peruvian Ichneumonidae (Insecta, Hymenoptera). – Zootaxa **2303**:1-44.
- TOWNES, H. & M. TOWNES 1966: A Catalogue and Reclassification of the Neotropic Ichneumonidae. – Memoirs of the American Entomological Institute **8**: 367 pp.
- YU, D. S. K., ACHTERBERG, C. van & K. HORSTMANN 2012: Taxapad 2012, Ichneumonidae 2011. Database on flash-drive. – www.Taxapad.com. Ottawa, Canada.

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