

# **CETONIINAE AND RUTELINAE BEETLES FROM COLOMBIA**

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**RESULTS AND DISCUSSION** 

THE CETONIINAE SCENARIO

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## ABSTRACT

Colombia has lost about 70% of its contiguous montane forests during the last 200 years. Although only about 10% of the the territory is protected within National Parks, it is still one of the most biodiverse rich countries in the world. Some of the most species rich and well studied groups include birds, frogs and some families of plants. In contrast, even though the Scarabaeoidea and the majority of insects are incredibly species rich, they are still poorly known. Most of the existing knowledge comes from limited sampling of just a few areas and majority of the specimens remain unidentified in Museums. Based on both our data and that gathered from the museums in Colombia, we now have a better perspective of the diversity of the Cetoninae and Rutelinae scarabs: At this time, the Cetoniinae is composed of 31 species (8 new records) and the Rutelinae 237 species (16 new records). As the vast majority of territory in Colombia remains unexplored, there is a promising future for research in these and other groups of insects.



#### INTRODUCTION



Geographically, Colombia is considered a transition zone between the Mesoamerican and South American biota, with unique and shared species within each area. Most biologists have believed that tropical diversity was a simple function of the presence and extent of the biota of lowland rainforests. Although these lowland rainforest areas exhibit prominent diversity, the presence of such forests in Colombia explains only part of the species richness. The other reason is the range of elevation found in this country via the Central Andean Mountains, as a continuation of the Cordillera Real of Ecuador that splits into three different cordilleras; the Occidental, Central and Oriental.

Central and Oriental

In addition to the highland areas, other diversity hot spots for both plants and animals are the northern part of Chocó which borders Panama, the low Calíma, southern Colombia, the Colombian Amazonia, southern Orinoquía bordering Brazil and the Caribbean region in areas Serranía del Perijá, Serranía de los Motilónes, Serranía de San Lucas and Sierra Nevada de Santa Marta. These regions are largely unexplored for Cetoniinae and Rutelinae scarabs and it is likely that many taxa remain to be discovered. And despite exploration of the Andean zone, new taxa appear almost every time a new site is visited.

#### MATERIALS AND METHODS

The beetles were obtained using fruit traps, light traps and from hand collecting in several zones of Colombia, predominantly the Chocó, Cordillera Central and the northeast Cordillera Oriental. Some of the species were collected as larvae or pupae and reared until the adults emerged. Specimens have also been examined in the following collections: Museo de Entomología Facultad de Agronomía, Bogota; Colección Entomológica Instituto de Ciencias Naturales, Bogota; Colección de Entomología Universidad Industrial de Santander, Bucaramanga; Colección Entomológica Francisco Luis Gallego, Medellín; and Colección Entomológica Universidad Tecnológica del Chocó.



first time, most of them from the western Cordillera Occidental (Table 1). One species can be considered endemic to Colombia: *Howdenypa gloriosa* (Ratcliffe). Very little is known about the Cremastocheilini and very few specimens have been collected. Although three species have been described for Colombia, only *Cyclidius elongatus* (Olivier) and *Genuchinus muzo* Krikken have been confirmed in our studies.





Species Locality Allorhing carmelita (Burmeister) Santander Euphoria lurida (Fabricius) Wide dist Gymnetis vanderpolli Chocó Gymnetis wollastoni (Schaum) Chocó Gymnetis pardalis (G. & P.) Chocó Hoplopyga ocellata (Olivier) Chocó Guatemalica hueti (Chevrolat) Chocó Euphoria steinheili Janson Chocó Table 1. New records of Cetoniinae

### THE RUTELINAE SCENARIO

Two hundred and thirty seven species of Rutelinae distributed in 49 genera and five tribes are present in Colombia. Most of the taxa belong to the Rutelini (40 genera and 147 species). The majority of the species recorded for the first time were found in the Andean region. The subtribe Areodina is recorded for the first time with *Areoda leachi* McLeay, 1819. Species in *Areoda* were previously known only from the Atlantic region of Brazil. The genera Vayana (Vayana melzeri Ohaus), *Telaugis (Telaugis aenescens* Burmeister), and *Lobogeniates* are also recorded for the first time. Sixteen species constitute the number of new records (Table 2).

Species	Locality
Areoda leachi McLeay, 1819	Cundinamarca
Vayana melzeri Ohaus	Amazonas
Telaugis aenescens Burmeister	Cundinamarca and Meta
Lobogeniates sp.	Cundinamarca, Boyacá and Meta
Strigoderma marginata (Olivier)	Antioquia
Anticheira capuchina (Fabricius)	Vaupes
Lasiocala lucens Ohaus	Cundinamarca
Macraspis hirtiventris (Bates)	Chocó
Pelidnota chiriquina Bates	Chocó
Pelidnota punctulata Bates	Valle del Cauca
Ptenomela mexicana Soula	Antioquia
Thyriochlorota pilosula (Waterhouse)	Antioquia
Spodochlamys cupreola Bates	Chocó, Antioquia and Cundinamarca
Pelidnota parallela Hardy	Chocó
Pelidnota punctata Bates	Chocó

Table 2. New records of Rutelin





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