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Preliminary checklist of the Orthoptera (Saltatoria) of Hispaniola

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Abstract

This work summarizes the preliminary taxonomic information available on the Orthoptera fauna of Hispaniola. Valid names, synonyms used in pertinent references, data on type specimens and species distributions are included. One hundred and three extant plus eight fossil species in Dominican amber are treated: Tridactylidae (1), Tetrigidae (12), Eumastacidae (10 + 1 fossil), Acrididae (20), Pyrgomorphidae (2), Tettigoniidae (22), Gryllidae (30 + 7 fossils), Anostomatidae (3), Gryllacrididae (1), and Gryllotalpidae (2). Two genera of Tettigoniidae are recorded for the first time from the island.

Keywords

Grasshoppers, crickets, katydids, Caribbean, Dominican Republic, Haiti.

Resumen

Este trabajo resume la información taxonómica preliminar disponible sobre la fauna de Ortópteros de la Hispaniola. Se incluyen nombres válidos, sinónimos usados en referencias pertinentes, datos sobre especímenes tipo, y distribución de las especies. Se tratan 103 especies vivientes más ocho especies fósiles en ámbar Dominicano: Tridactylidae (1), Tetrigidae (12), Eumastacidae (10 + 1 fósil), Acrididae (20), Pyrgomorphidae (2), Tettigoniidae (22), Gryllidae (30 + 7 fósiles), Anostomatidae (3), Gryllacrididae (1) y Gryllotalpidae (2). Dos géneros de Tettigoniidae son citados por primera vez para la isla.

Introduction

"Langosta suele aver en estas islas e Tierra-Firme algunos años, lo cual los indios y aun los chripstianos tienen á infelicidad é por cosa de mucho trabajo. Porque destruyen los mahiçales y heredades, y suele aver mucha en extremo, quando algun año viene; pero es cosa ordinaria aver algunas destas animalias. Y de los grillos saltadores lo mesmo; é aquestos son dañosos porque roen é horadan la ropa é vestidos, quando se crian en las casas. Hay de los otros que cantan, muchos é unos mayores que los otros, assi en el cuerpo como en el sonido é voces".

Fernández de Oviedo, G.
Colony of Santo Domingo, circa 1548.
Historia General y Natural de Las Indias, 1851, p. 456.

Although some species of Orthoptera have been exhaustively studied in their biology, taxonomic knowledge of the order on a worldwide basis and mainly in the Neotropical region is still preliminary. Until recently, Hispaniolan Orthoptera had never been considered in faunistic terms. The diversity of these insects in the island is poorly known, although it is clear that there are numerous species waiting to be discovered, especially crickets and katydids.

The characterization of Hispaniolan Orthoptera began, together with the establishment of biological taxonomy, with the publication of the 10th edition of the *Systema Naturae* (Linnaeus 1758): the katydid *Neoconocephalus triops* was described from Santo Domingo. Until 1900 only 31 species had been recorded from the island, increasing to 64 by 1984. Since then, Vickery & Poinar (1994) described seven species of fossil crickets from the Dominican amber, Ruíz & Otte (1996) added one species in a new genus of crickets and Desutter-Grandcolas & Otte (1997) described eight new species of *Amphiacusta* crickets. Wetherbee (1996) published a brief historical synopsis of the orthopteroid species discovered in the 19th century in Hispaniola. Most recently, several works by Perez *et al.* (1995a, 1995b, 1997a, 1997b, 1998) and Perez-Gelabert & Otte (1999, 2000), describe 31 new species of Hispaniolan grasshoppers and tetrigids, including one fossil eumastacid in Dominican amber.

The present checklist is largely based on an extensive survey of the taxonomic literature. Its purpose is to enhance the characterization of this fauna as a whole and the discovery of new taxa. I have resolved little of the nomenclatural problems, and it is possible that some species records are inaccurate, *i. e.*, based on misidentifications. In any case, this list will provide a framework to address those problems. Species and higher categories are listed in alphabetical order, including the valid name, author, year of publication, page number, and published figures. Some information on the type specimens is also included. Citations and synonymy are limited to records from Hispaniola. Distributions are sometimes taken from multiple references not necessarily cited here.

One hundred and three extant plus eight fossil species (in Dominican amber) are treated in this list, including two genera of katydids (*Phlugis* sp. and *Anaulacomera* sp.) previously unrecorded for the island. Seventy species (68%) are

considered endemic to the island. Based on the number of reported, unidentified and new species collected and the geographic coverage and intensity of my collecting efforts in the Dominican Republic, I estimate that there are around 400 species of Orthoptera in Hispaniola (Table 1). The largest diversities occur within the crickets and katydids, indicating that these groups include numerous new species.

Abbreviations.— Institutions and collections holding type specimens or other materials are designated throughout the paper using the following abbreviations: AMNH - American Museum of Natural History, New York; ANSP - Academy of Natural Sciences, Philadelphia; BMNH - British Museum of Natural History, London; CMNH - Carnegie Museum of Natural History, Pittsburgh; DEPG - Collection of Daniel E. Pérez-Gelabert, Rockville, Maryland; FSCA - Florida State Collection of Arthropods, Gainesville; GOPC - George O. Poinar Collection, Oregon State University, Corvallis; LEM - Lyman Entomological Museum, McGill University, Quebec, Canada; MBE - Museum für Naturkunde der Humboldt Universität, Berlin, Germany; MCZ - Museum of Comparative Zoology, Cambridge, Massachusetts; MNMS - Museo Nacional de Ciencias Naturales, Madrid, Spain; MNHG - Museum d'Histoire Naturelle de Geneva, Switzerland; MNHNP - Museum National d'Histoire Naturelle, Paris, France; NHMS - Naturhistoriska Riksmuseum, Stockholm,

Sweden; NMNH - National Museum of Natural History, Smithsonian Institution, Washington, D. C.; NHMV - Naturhistorisches Museum Vienna, Austria; UFM - University of Florida Museum, Gainesville; UMMZ - University of Michigan Museum of Zoology, Ann Arbor, Michigan; and ZIUU - Zoologiska Institutionen Uppsala Universitet, Sweden.

Checklist of species

Order **ORTHOPTERA**
Suborder **CAELIFERA**
Family **TRIDACTYLIDAE**

Ellipes Scudder, 1902

Ellipes minutus histrionicus (Saussure, 1896)

Ellipes minuta: - Wolcott 1927: 152. *Ellipes minutus histrionica*: - Günther 1977: 62. Lectotype ♀, designated by Günther (1977), from southern Illinois, United States. [MCZ].

Distribution.— Mexico, Guatemala, El Salvador, Belize, Honduras, Nicaragua, Costa Rica, Panama, Venezuela, Colombia, Ecuador, Cuba, Haiti, Dominican Republic, Puerto Rico, Tobago, Trinidad.

Table 1. Diversity of species, endemism and estimated total number of Orthoptera in Hispaniola.

Families	Number of species	Endemic species (%)	Total estimated	Key references
Tridactylidae	1	0 (0.0)	2	Günther (1977)
Tetrigidae	12	10 (83.3)	20	Perez-Gelabert <i>et al.</i> (1998)
Eumastacidae	10 + 1	10 (100)	18	Perez-Gelabert (1999)
Pyrgomorphidae	2	2 (100)	4	Perez <i>et al.</i> (1995a)
Acrididae	20	12 (60.0)	34	Perez-Gelabert & Otte (1999)
Tettigoniidae	22	15 (68.2)	80	Rehn (1936), Walker & Greenfield (1983)
Gryllidae	30 + 7	17 (55.0)	200	Randell (1964), Desutter-Grandcolas & Otte (1997)
Gryllacrididae	1	1 (100)	20	Walker (1870)
Gryllotalpidae	2	0 (0.0)	2	Nickle <i>et al.</i> (1984), Frank <i>et al.</i> (1987)
Anostomatidae	3	3 (100)	20	Johns (1997)
Total Orthoptera	103 + 8	70 (68.0)*	400	

*Percentage based on total extant species.

Family TETRIGIDAE
Subfamily CLADONOTINAE

Bahorucogettix Perez-Gelabert *et al.*, 1998

Bahorucogettix larimar Perez-Gelabert *et al.*, 1998
Perez-Gelabert *et al.* 1998: 196, Figs 4, 7, 8. Holotype ♀,
from Larimar mine, near Filipinas, Sierra de Bahoruco,
Dominican Republic. [FSCA].
Distribution.— Dominican Republic.

Haitianotettix Perez-Gelabert *et al.*, 1998

Haitianotettix tuberculatus Perez-Gelabert *et al.*, 1998
Perez-Gelabert *et al.* 1998: 198, Figs 5, 7, 8. Holotype ♂,
from 5 km NE of Los Arroyos, Sierra de Bahoruco, Domini-
can Republic. [CMNH].
Distribution.— Dominican Republic.

Haitianotettix monstrosus Perez-Gelabert *et al.*, 1998
Perez-Gelabert *et al.* 1998: 199, Figs 5, 7, 8. Holotype ♀,
from Kenscoff, Haiti. [ANSP].
Distribution.— Haiti.

Hottettix Perez-Gelabert *et al.*, 1998

Hottettix haitianus Perez-Gelabert *et al.*, 1998
Perez-Gelabert *et al.* 1998: 195, Figs 3, 7, 8. Holotype ♀,
from Massif de la Hotte, Haiti. [ANSP].
Distribution.— Haiti.

Mucrotettix Perez-Gelabert *et al.*, 1998

Mucrotettix gibbosus Perez-Gelabert *et al.*, 1998
Perez-Gelabert *et al.* 1998: 192, Figs 2, 7, 8. Holotype ♂,
from Monte Diego de Ocampo, Cordillera Septentrional,
Dominican Republic. [ANSP].
Distribution.— Dominican Republic.

Mucrotettix spinifer Perez-Gelabert *et al.*, 1998
Perez-Gelabert *et al.* 1998: 193, Figs 2, 7, 8. Holotype ♂,
from Los Tablones, Parque Nacional J. A. Bermúdez, Do-
minican Republic. [ANSP].
Distribution.— Dominican Republic.

Sierratettix Perez-Gelabert *et al.*, 1998

Sierratettix carinatus Perez-Gelabert *et al.*, 1998
Perez-Gelabert *et al.* 1998: 194, Figs 3, 7, 8. Holotype ♂,
from Cortico, Sierra de Bahoruco, Dominican Republic.
[ANSP].
Distribution.— Dominican Republic.

Tiburonotus Perez-Gelabert *et al.*, 1998

Tiburonotus peninsularis Perez-Gelabert *et al.*, 1998
Perez-Gelabert *et al.* 1998: 197, Figs 4, 7, 8. Holotype ♂,
from NE foothills of La Hotte, Haiti. [ANSP].
Distribution.— Haiti.

Truncotettix Perez-Gelabert *et al.*, 1998

Truncotettix fronterizus Perez-Gelabert *et al.*, 1998
Perez-Gelabert *et al.* 1998: 191, Figs 1, 7, 8. Holotype ♂,
from Los Pinos del Edén, Dominican Republic. [ANSP].
Distribution.— Dominican Republic, Haiti.

Truncotettix interruptus Perez-Gelabert *et al.*, 1998
Perez-Gelabert *et al.* 1998: 190, Figs 1, 7, 8. Holotype ♂,
from Arroyo Toro, Bonaó, Dominican Republic. [ANSP].
Distribution.— Dominican Republic.

Subfamily TETRIGINAE

Micronotus Hancock, 1902

Micronotus quadriundulatus (Redtenbacher, 1892)
Neotettix quadriundulatus: - Hancock 1900: 25. *Micronotus*
quadriundulatus: - Hancock 1902: 98. Perez-Gelabert 2000b:
337. Syntypes ♂ and ♀, from Chateaubelais, St. Vincent.
[BMNH].
Distribution.— St. Vincent, Haiti, Dominican Republic,
Grenada, Trinidad.

Paratettix I. Bolívar, 1887

Paratettix freygessneri I. Bolívar, 1878
Merotettix pristinus Morse 1899: 199. *Paratettix freygessneri*:
Rehn & Grant 1957: 255. Perez-Gelabert 2000b: 336. Syntype
♂, from Cuba. [MNMS].
Distribution.— Cuba, Hispaniola, Puerto Rico, Jamaica, Ba-
hamas.

Family EUMASTACIDAE
Subfamily EPISACTINAE

Antillacris J.A.G. Rehn & J.W.H. Rehn, 1939

Antillacris eumenes Perez *et al.*, 1997
Perez *et al.* 1997a: 143, Figs 3, 17, 18, 19h, k, l, o, r. Perez-
Gelabert 1999: 55, Fig. 2a. Holotype ♀, from Loma Nalga
de Maco, Dominican Republic. [ANSP].
Distribution.— Dominican Republic.

Antillacris explicatrix J.A.G. Rehn & J.W.H. Rehn, 1939
Rehn & Rehn 1939: 202, pl. 8, Figs 19, 20. Perez *et al.* 1997a:
143, Fig. 19m. Holotype ♀ [juvenile], from Loma Rucilla,
Dominican Republic. [MCZ].
Distribution.— Dominican Republic.

Antillacris inflaticercus Perez *et al.*, 1997
Perez *et al.* 1997a: 143, Figs 16, 19f, g, i, j. Holotype ♂, from
El Lugar del Agua del Sitio, N. of Los Bolos, Sierra de Neiba,
Dominican Republic. [ANSP].
Distribution.— Dominican Republic.

Espagnola J.A.G. Rehn & J.W.H. Rehn, 1939

Espagnola darlingtoni J.A.G. Rehn & J.W.H. Rehn, 1939
Rehn & Rehn 1939: 192, pl. 8, Figs 16, 17, 18. Perez *et al.*

1997a: 148, Figs 19a-e. Holotype ♂, from Jarabacoa, Dominican Republic. [MCZ].

Distribution.— Dominican Republic.

Espagnoleta Perez-Gelabert, 2000

Espagnoleta microptera Perez et al., 1997

Espagnolina microptera Perez et al. 1997b: 154, Figs 2 up, 3a, 4a, 5a-d. *Espagnoleta microptera* Perez-Gelabert 2000a: 116. [Genus name changed because of homonymy]. Holotype ♂, from Los Anones, S. de San José de Ocoa, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Espagnolopsis Perez et al., 1997

Espagnolopsis breviptera Perez et al., 1997

Perez et al. 1997b: 159, Figs 2 down, 3c, 4c, 5h-j. Holotype ♂, from La Ciénaga de Manabao - Los Tablones, Cordillera Central, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Espagnolopsis ornatipennis Perez et al., 1997

Perez et al. 1997b: 157, Figs 2 middle, 3b, 4b, 5e-g. Perez-Gelabert 1999: 55, Fig. 2b. Holotype ♂, from La Colonia, San Cristóbal, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Paleomastacris Perez et al., 1997

†*Paleomastacris ambarinus* Perez et al., 1997

Perez et al. 1997a: 150, Figs 20, 21a-f. Holotype ♂ [juvenile], fossil in Dominican amber, probably from amber mines in Cordillera Septentrional. [AMNH].

Three new specimens of *P. ambarinus* in Dominican amber are the basis of a further characterization of this fossil taxon (Perez-Gelabert, submitted).

Tainacris Perez et al., 1997

Tainacris divergentis Perez et al., 1997

Perez et al. 1997a: 142, Figs 6, 9, 12, 15. Holotype ♂, from Los Pinos del Edén, Dominican Republic.

Distribution.— Dominican Republic. [ANSP].

Tainacris nitaina Perez et al., 1997

Perez et al. 1997a: 140, Figs 2, 5, 8, 11, 14. Holotype ♂, from Las Yayitas, Dominican Republic.

Distribution.— Dominican Republic. [ANSP].

Tainacris quisqueiana Perez et al., 1997

Perez et al. 1997a: 142, Figs 4, 7, 10, 13. Holotype ♂, from Road to Los Martínez, S. of San José de Ocoa, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Family PYRGOMORPHIDAE

Subfamily SPHENARINAE

Jaragua Perez et al., 1995

Jaragua ovidensis Perez et al., 1995

Perez et al. 1995a: 34, Figs 3a, 4a, 5, 6a. Perez-Gelabert 2000b: 337. Holotype ♂, from Punta Inglesa, Parque Nacional Jaragua, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Jaragua serranus Perez et al., 1995

Perez et al. 1995a: 35, Figs 2, 3b, 4b, 5, 6b, 7. Holotype ♂, from Los Pinos del Edén, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Family ACRIDIDAE

Subfamily COPIOCERINAE

Dellia Stål, 1878

Dellia dominicensis Perez et al., 1995

Perez et al. 1995b: 158, Figs 1A, 2, 3F, 4A, 6A. Holotype ♂, from Las Yayitas, Dominican Republic. [ANSP].

Distribution.— Dominican Republic

Dellia monticola Perez-Gelabert & Otte, 1999

Perez-Gelabert & Otte 1999: 6, Figs 1, 2b, 3b, 4b, 5b. Holotype ♂, from El Aceitillar, Sierra de Bahoruco, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Dellia roseomaculata Perez-Gelabert & Otte, 1999

Perez-Gelabert & Otte 1999: 5, Figs 1, 2a, 3a, 4a, 5a. Holotype ♂, from Loma de Las Tayotas, Macizo Loma Nalga de Maco, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Subfamily CYRTACANTHACRIDINAE

Schistocerca Stål, 1873

Schistocerca pallens (Thunberg, 1870)

Cyrtacantacris pectoralis: - Walker 1870: 551. *Acridium pectoralis*: - Thomas 1873: 229. *Schistocerca pallens*: - Dirsh 1974: 130, pl. 21, Figs 25, 26. Harvey 1981: 67, Figs 1p-s. Perez-Gelabert 2000b: 339. Holotype ♂, from unknown locality. [ZIUU].

Distribution.— Southern Florida, Mexico, Central America, Antilles, South America to Paraguay.

Schistocerca quisqueya J.A.G. Rehn & Hebard, 1938

Rehn & Hebard 1938: 221; Fig. 6. Dirsh 1974: 162, pl. 28, Fig. 35. Perez-Gelabert 2000b: 339. Holotype ♂, from Moca, Dominican Republic. [ANSP no. 5398].

Distribution.— Dominican Republic, Haiti, Puerto Rico.

Schistocerca serialis serialis (Thunberg, 1815)

Cyrtacanthacris simulatrix Walker 1869: 610. *Acridium varipes* Walker 1870: 581. Thomas 1873: 235. *Acridium simulatrix*:

Thomas 1873: 235. *Schistocerca serialis serialis*: Harvey 1981: 67, Fig. 1t. Holotype ♂, from "St. Barthelemi". [ZIUU].
Distribution.— Hispaniola, Puerto Rico, Virgin Islands.

Subfamily GOMPHOCERINAE

Amblytropidia Stål, 1873

Amblytropidia hispaniolana Perez *et al.*, 1995
 Perez *et al.* 1995b: 155, Figs 1F, 5D. Perez-Gelabert 2000b: 337. Holotype ♂, from Monte Rio, Dominican Republic. [ANSP].
Distribution.— Dominican Republic.

Orphulella Giglio-Tos, 1894

Orphulella decisa (F. Walker, 1870)
Stenobothrus decorus Walker 1870: 757. *Orphulella decisa*: Rehn & Hebard 1938: 205. Otte 1978: 66, Fig. 7. Otte 1981: 95, Fig. 58. Perez-Gelabert 2000b: 337. Holotype ♂, from "Santo Domingo". [BMNH].
Distribution.— Dominican Republic, Haiti.

Orphulella nesicos Otte, 1978
 Otte 1978: 66, Fig. 7. Otte 1981: 95, Fig. 58, pl. 5. Perez-Gelabert 2000b: 337. Holotype ♂, from Jarabacoa, Dominican Republic. [ANSP].
Distribution.— Dominican Republic, Haiti.

Orphulella punctata (De Geer, 1773)
 Otte 1981: 90, pl. 5. Lectotype ♀, designated by C. S. Carbonell (Otte 1979), from unknown locality. [NHMS].
Distribution.— Antilles, Mexico to Argentina.

Orphulella scudderi (Bolívar, 1888)
Parachloebata scudderi: Rehn & Hebard 1938: 203. Otte 1981: 99. Holotype ♂, from Cuba. [Location of type unknown (Otte 1981)].
Distribution.— Cuba, Roatan Island, Haiti.

Rhammatocerus Saussure, 1861

Rhammatocerus cyanipes (Fabricius, 1775)
Stenobothrus gregarius: Saussure 1861: 318. Thomas 1873: 206. *Stenobothrus decesus*: Thomas 1873: 207. *Plectrotettix gregarius*: Wolcott 1927: 146. Lectotype ♂, designated by Otte (1995), from La Chorrera, Panama. [ANSP].
Distribution.— Hispaniola, Puerto Rico, Mexico, French Guiana, Central America.

Subfamily LEPTYSMINAE

Stenacris F. Walker, 1870

Stenacris caribea (J.A.G. Rehn & Hebard, 1938)
Opshomala caribea Rehn & Hebard 1938: 217, Figs 4, 5. *Stenacris caribea*: Roberts & Carbonell 1978: 59, Figs 22a-e. Perez-Gelabert 2000b: 339. Holotype ♂, from Sánchez, Dominican Republic. [AMNH].
Distribution.— Hispaniola, Cuba, Jamaica.

Subfamily MELANOPLINAE

Duartettix Perez-Gelabert & Otte, 2000

Duartettix montanus Perez-Gelabert & Otte, 2000
 Perez-Gelabert & Otte, 2000: 130, Figs 1-4. Holotype ♂, from Valle Nuevo, Dominican Republic. [ANSP].
Distribution.— Dominican Republic.

Subfamily OEDIPODINAE

Sphingonotus Fieber, 1852

Sphingonotus haitensis haitensis (Saussure, 1861)
Oedipoda haitensis Saussure 1861: 323. Walker 1871: 74. *Oedipoda (Sphingonotus) haitensis*: Thomas 1873: 213. *Sphingonotus haitensis*: Wolcott 1927: 146. Rehn & Hebard 1938: 211. Otte 1984: 179, Figs 47, pl. 14. Holotype ♂, from Haiti. [MHNG?].
Distribution.— Hispaniola, Puerto Rico, Navassa, Jamaica, Nevis.

Sphingonotus haitensis is morphologically very similar to *Sphingonotus coeruleans* from Europe. As reported for the European species by Gosálvez *et al.* (1985), *S. haitensis* also possesses polymorphic systems of unstable supernumerary (B) chromosomes and extra heterochromatic segments (Perez-Gelabert 1988, unpublished thesis data).

Subfamily OMMATOLAMPINAE

Acridurus Perez *et al.*, 1995

Acridurus neibanus Perez *et al.*, 1995
 Perez *et al.* 1995b: 165, Fig. 5C. Holotype ♂, from beginning of road La Descubierta to Los Pinos del Edén, Dominican Republic. [ANSP].
Distribution.— Dominican Republic.

Acridurus robustus Perez *et al.*, 1995
 Perez *et al.* 1995b: 163, Figs 1C, 3A, 4B, 5A. Perez-Gelabert 2000b: 338. Holotype ♂, from Punta Inglesa, Parque Nacional Jaragua, Dominican Republic. [ANSP].
Distribution.— Dominican Republic.

Acridurus yayitas Perez *et al.*, 1995
 Perez *et al.* 1995b: 164, Figs 1E, 4C, 5B. Perez-Gelabert 2000b: 338. Holotype ♂, from Las Yayitas, Dominican Republic. [ANSP].
Distribution.— Dominican Republic.

Hispanacris Perez *et al.*, 1995

Hispanacris oreades Perez *et al.*, 1995
 Perez *et al.* 1995b: 165, Figs 1C, 3D, 3G, 4D, 4H, 4I, 6B. Perez-Gelabert 2000b: 338. Holotype ♂, from Restauración, Dominican Republic. [ANSP].
Distribution.— Dominican Republic.

Hispanotettix Perez et al., 1995*Hispanotettix nitidus* Perez et al., 1995

Perez et al. 1995b: 161, Figs 1B, 3C, 4G, 6C. Perez-Gelabert 2000b: 338. Holotype ♂, from Las Yayitas, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Suborder ENSIFERA

Family TETTIGONIIDAE

Subfamily CONOCEPHALINAE

Conocephalus Thunberg, 1815*Conocephalus (Conocephalus) cinereus* Thunberg, 1815

Conocephalus (Xiphidion) cinereus: Rehn & Hebard 1915: 243, pl. 22, Fig. 12; pl. 23, Figs 5-6. Holotype ♀, from Jamaica. [ZIUU].

Distribution.— Jamaica, Bahamas, Cuba, Hispaniola, Mona Island, Puerto Rico, St. Thomas, Mexico, Costa Rica, Venezuela, French Guiana, Colombia, Peru.

Conocephalus (Conocephalus) insularis (Morse, 1905)

Conocephalus (Xiphidion) insularis: Rehn & Hebard 1915: 256, pl. 22, Fig. 14; pl. 23, Figs 10-11. Holotype ♂, from Stranger Cay, Bahamas. [ANSP?].

Distribution.— Bahamas, Cuba, Hispaniola, Jamaica.

Neoconocephalus Karny, 1907*Neoconocephalus affinis* (Beauvois, 1805)

Locusta affinis Beauvois 1805: 219, pl. 7, Fig. 5. *Neoconocephalus affinis*: Walker & Greenfield 1983: 364, Figs 6, 12, 18, 22, 24. Type sex unknown, from "San Domingo", Hispaniola. [Deposition unknown].

Distribution.— Greater Antilles, Central America, South America.

Neoconocephalus maxillosus (Fabricius, 1775)

Locusta lanceolata Beauvois 1805: 219. *Conocephalus maxillosus*: Redtenbacher 1891: 396. *Neoconocephalus maxillosus*: Walker & Greenfield 1983: 377, Figs 10, 16, 23, 30. Type lost, from "America".

Distribution.— Antilles, South America.

Neoconocephalus occidentalis (Saussure, 1859)

Conocephalus occidentalis Saussure 1859: 208. Walker 1869: 305. *Homorocoryphus occidentalis* Kirby 1906: 247. *Neoconocephalus occidentalis*: Walker & Greenfield 1983: 368, Figs 7, 13, 22, 25. Neotype ♂, from Haiti. [UFM].

Distribution.— Hispaniola.

Neoconocephalus pinicola T. Walker & Greenfield, 1983

Walker & Greenfield 1983: 375, Figs 20, 22, 29. Holotype ♂, from Km 25-33 Alcoa Rd. [El Aceitillar], Dominican Republic. [FSCA].

Distribution.— Dominican Republic.

Neoconocephalus triops (Linnaeus, 1758)

Gryllus (Tettigonia) triops Linnaeus 1758: 430. *Conocephalus*

bilineatus: Thunberg 1815: 275. Walker 1869: 306. Kirby 1906: 246. *Conocephalus fuscostrigatus*: Redtenbacher 1891: 399. *Neoconocephalus triops*: Walker & Greenfield 1983: 371, Figs 5, 21, 22, 28. Type sex unknown, from "Indis" [=West Indies]. [BMNH].

Distribution.— Hispaniola, Cuba, Jamaica, Trinidad, Panama, Bahamas, Bermuda, Mona Island, St. Croix, St. Thomas, Dominica.

Subfamily LISTROSCELIDINAE

Phlugis Stål, 1860*Phlugis* sp.

New generic record for Hispaniola.

Material examined: HAITI: 1 ♀, Kenscoff, 1-6.viii.1961, J. Maldonado C., [NMNH]. DOMINICAN REPUBLIC: 1 ♀, Loma Quita Espuela, San Francisco de Macorís Prov., 23.x.1998, D. Perez, S. Navarro, S. Medrano [DEPG]. 2 ♀♀ 2 km N. La Colonia, San Cristóbal Prov., 9.x.1998, D. E. Perez [DEPG]. 1 ♂, Jardín Botánico Nacional, Santo Domingo, 13.ix.1999, D. E. Perez, R. Bastardo, M. de la Cruz [DEPG]. 1 ♂, Prov. La Altagracia, Nisibón, "Papagallo", at beach, 26.vi.1998, R. E. Woodruff [FSCA].

The genus *Phlugis* is in need of revision. It contains some 23 species distributed in the New World tropics, including two species possibly restricted to the Caribbean.

Subfamily PHANEROPTERINAE

Anaulacomera Stål, 1873*Anaulacomera* sp.

New generic record for Hispaniola.

Material examined: DOMINICAN REPUBLIC: 1 ♂, Loma Quita Espuela, San Francisco de Macorís Prov., 23.x.1998, D. Perez, S. Navarro, S. Medrano [DEPG]. 1 ♂, Jardín Botánico Nacional, Santo Domingo, 13.ix.1999, D. E. Perez, R. Bastardo, M. de la Cruz [DEPG]. 1 ♂, On way to La Sal, Reserva de Ebano Verde, La Vega Prov., 18.ix.1999, D. E. Perez, R. Bastardo, S. Medrano [DEPG].

The genus *Anaulacomera* is in need of revision. It contains more than 85 species distributed in the New World tropics.

Microcentrum Scudder, 1862*Microcentrum decoratum* F. Walker, 1869

Walker 1869: 373. Holotype sex unknown, from "St. Domingo". [BMNH].

Distribution.— Hispaniola.

Phoebolampta Brunner, 1878*Phoebolampta excellens* (F. Walker, 1869)

Microcentrum excellens Walker 1869: 371. *Phoebolampta magnifica* Brunner 1878: 352. *Phoebolampta excellans*: Wolcott 1927: 148, Fig. 32. Holotype ♀, from "St. Domingo". [BMNH].

Distribution.— Hispaniola.

Phoebolampta subaequale (F. Walker, 1869)

Microcentrum subaequale Walker 1869: 372. Holotype ♀, from "St. Domingo". [BMNH].

Distribution.— Hispaniola.

Turpilia Stål, 1874

Turpilia appendiculata Brunner, 1878

Turpilia appendiculatus Brunner 1878: 326. *Diplophyllus appendiculatus*: Kirby 1906: 479.

Turpilia appendiculata: Wolcott 1927: 148. Holotype ♂, from Port-au-Prince, Haiti. [NHMV no. 6484].

Distribution.— Hispaniola.

Subfamily PSEUDOPHYLLINAE

Caribophyllum J.A.G. Rehn, 1947

Caribophyllum necopinum J.A.G. Rehn, 1947

Rehn 1947: 4, Figs 1, 2. Beier 1960: 287, Fig. 175. Holotype ♂, from Petionville, Haiti. [ANSP no. 5748].

Distribution.— Haiti.

Polyancistrus Serville, 1831

Polyancistrus abbotti J.A.G. Rehn, 1936

Rehn 1936: 308, pl. 21, Figs 1, 2. Beier 1960: 275, Fig. 168. Holotype ♂, from La Visite, Massif de la Selle, Haiti. [MCZ].

Distribution.— Haiti.

Polyancistrus atlas atlas J.A.G. Rehn, 1936

Rehn 1936: 286, pl. 21, Figs 6, 13. Beier 1960: 272. Holotype ♂, from Fond des Negres, Haiti. [ANSP no. 5556].

Distribution.— Haiti.

Polyancistrus atlas pilanus J.A.G. Rehn, 1936

Rehn 1936: 291, pl. 21, Fig. 7. Beier 1960: 272. Holotype ♂, from Massif de la Selle, Haiti. [MCZ].

Distribution.— Haiti.

Polyancistrus darlingtoni J.A.G. Rehn, 1936

Rehn 1936: 302, pl. 21, Figs 3, 4, 9, 10, 17. Beier 1960: 274. Holotype ♂, from Massif de la Hotte, Haiti. [MCZ].

Distribution.— Haiti.

Polyancistrus gerulus J.A.G. Rehn, 1936

Rehn 1936: 295, pl. 20, Figs 6-9; pl. 21, Figs 8, 14, 16. Beier 1960: 273, Fig. 166. Holotype ♂, from Miragoâne, Haiti. [MCZ].

Distribution.— Haiti.

Polyancistrus loripes J.A.G. Rehn, 1936

Rehn 1936: 299, pl. 20, Figs 10-12; pl. 21, Figs 15, 19. Beier 1960: 274, Fig. 167. Holotype ♂, from Constanza, Dominican Republic. [NMNH].

Distribution.— Dominican Republic.

Polyancistrus serrulatus serrulatus (Beauvois, 1805)

Locusta serrulata Beauvois 1805: 218. *Lobodes rubricornis* Fischer von Waldheim 1839: 479.

Polyancistrus serrulatus serrulatus: Rehn 1936: 279, pl. 20, Figs 1-3; pl. 21, Fig. 12. Beier 1960: 270, Fig. 165. Holotype ♂, from "San Domingo". [MNHNP?].

Distribution.— Dominican Republic.

Polyancistrus serrulatus oreiotes (Beauvois, 1805)

Rehn 1936: 281, pl. 20, Figs 4, 5; pl. 21, Fig. 5. Beier 1960: 271. Holotype ♂, from Manabao, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Spelaeala J.A.G. Rehn, 1943

Spelaeala bondi J.A.G. Rehn, 1943

Rehn 1943: 5, Figs 1-4, 7-9. Beier 1960: 279, Fig. 170. Perez-Gelabert & Grogan 1999: 312. Holotype ♂, from Loma Rucilla, Cordillera Central, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Spelaeala scobina J.A.G. Rehn, 1943

Rehn 1943: 11, Figs 5-6, 10. Beier 1960: 280, Fig. 171. Holotype ♂, from Loma Rucilla, Cordillera Central, Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Family GRYLLIDAE

Subfamily BRACHYTRUPINAE

Anurogryllus Saussure, 1877

Anurogryllus muticus caraibeus Saussure, 1774

Gryllus muticus: De Geer 1773: 520.

Anurogryllus muticus: Wolcott 1927: 150. Allard 1957: 150. Walker 1973: 1270. Holotype ♀, from St. Thomas. [MHNG].

Distribution.— St. Thomas, St. Croix, Puerto Rico, Hispaniola, Jamaica, Dominica.

Subfamily ENEOPTERINAE

Tafalisca F. Walker, 1869

Tafalisca lurida F. Walker, 1869

Walker 1869: 53. Holotype ♂, from "St. Domingo". [BMNH]. *Distribution*.— Hispaniola, Cuba, Jamaica, Bahamas, St. Vincent, Florida.

Subfamily GRYLLINAE

Acheta Fabricius, 1775

Acheta domesticus (Linnaeus, 1758)

Gryllus domesticus Linnaeus 1758: 428. Type lost, from Europe.

Distribution.— Believed to originate in northern Africa, has become introduced to many parts of the world (Ghoury, 1961).

Gryllita Randell, 1935*Gryllita arndti* Randell, 1964

Randell 1964a: 1561, Fig. 2. Holotype ♂, from Fond des Negres, Haiti. [ANSP].

Distribution.— Haiti.

Gryllita bondi Randell, 1964

Randell 1964a: 1560, Fig. 1. Holotype ♂, from Morne Tranchant, Haiti. [ANSP].

Distribution.— Haiti.

Gryllita uhleri Randell, 1964

Randell 1964a: 1562, Fig. 3. Holotype ♂, from Grand Anse, Haiti. [MCZ].

Distribution.— Haiti.

Gryllus Linnaeus, 1758*Gryllus assimilis assimilis* (Fabricius, 1775)

Gryllus determinatus Walker 1869: 19.

Gryllus septentrionalis Walker 1869: 18.

Gryllus assimilis: - Santoro 1960: 211, 268. Type lost, from Montego Bay, Jamaica.

Distribution.— Jamaica, Hispaniola, St. Vincent, Mexico, North America.

Hispanogryllodes Randell, 1964*Hispanogryllodes rehni* Randell, 1964

Randell 1964a: 1563, Fig. 4. Randell 1964b: 1581. Holotype ♂, from Port-au-Prince, Haiti. [ANSP].

Distribution.— Haiti.

Scapsipedus Saussure, 1877*Scapsipedus marginatus* (Afzelius & Brannius, 1804)

Jobin & Bigelow 1961: 316, Figs 1, 2, 6, 8. Neotype ♂, designated by Otte (1994) from Tanzania. [ANSP].

Distribution.— This species originates from eastern Africa. It has apparently been introduced to the Greater Antilles. Jobin & Bigelow (1961) cite it for Jamaica, Cuba, and Haiti.

Stenogryllus Saussure, 1878*Stenogryllus phthisicus* Saussure, 1878

Saussure 1878: 695, Fig. 53. Holotype ♀, from "Santo Domingo". [NHMV].

Distribution.— Dominican Republic, Cuba.

Subfamily MOGOPLISTINAE

Ectatoderus Guerin, 1849*Ectatoderus contectus* (J.A.G. Rehn & Hebard, 1912)

Cryptoptylum contectus Rehn & Hebard 1912: 203. Holotype ♂, from Haiti. [ANSP].

Distribution.— Haiti.

Ornebius Guerin, 1844†*Ornebius ambericus* Vickery & Poinar, 1994

Vickery & Poinar 1994: 18, Figs 7, 14. Holotype ♀, fossil in Dominican amber [LEM].

Subfamily MYRMECOPHILINAE

Myrmecophilus Berthold, 1827*Myrmecophilus (Myrmophilina) americanus* Saussure, 1877

Myrmecophila prenolepidis: Mann 1915: 161. Holotype ♀, from Colombia [MBE].

Distribution.— Colombia, Brazil, Haiti.

The name *Myrmecophila prenolepidis* (Wasmann, 1905) was inadvertently overlooked and not included in the *Orthoptera Species File* catalog of world crickets of Otte (1994). Although considered a synonym of *M. americanus* by Hebard (1926), a note probably by A. N. Caudell in the species card catalog of the NMNH says: "Wm. Mann, who has studied this genus and this sp. tells me, in 1918, that this is nothing like americana but is a distinct species. He says he is going to separate a couple of varieties in color from this sp.".

Subfamily OECANTHINAE

Oecanthus Serville, 1831*Oecanthus allardi* T. Walker & Gurney, 1960

Allard 1957: 151. Walker & Gurney 1960: 9, Fig. 1a. Walker 1967: 791. Holotype ♂, from St. Croix. [NMNH no. 64826].

Distribution.— St. Croix, Puerto Rico, Dominican Republic.

Subfamily PHALANGOPSINAE

Amphiacusta Saussure, 1874*Amphiacusta annulipes* (Serville, 1831)

Phalangopsis annulipes Serville 1831: 167. Burmeister 1838: 723. Blanchard 1840: 32. DeHaan 1842: 226. Walker 1869: 105. Girard 1869: 137. *Amphiacusta annulipes*: Kirby 1906: 68. Wolcott 1927: 150. Desutter-Grandcolas & Otte 1997: 106, Figs 1-4. *Amphiacusta aranea* Saussure 1878: 431 [synonymized by Desutter-Grandcolas & Otte 1997: 103]. *Amphiacusta caraibea*: Ciferri 1927: 80 [erroneous identification, probably *A. annulipes* (Desutter-Grandcolas & Otte 1997)]. Holotype ♀, from Port-au-Prince, Haiti. [MNHN?]. *Distribution.*— Hispaniola, Jamaica, Bahamas, Cuba, Guadeloupe, Peru.

Amphiacusta dissimilis Desutter-Grandcolas, 1997

Desutter-Grandcolas & Otte 1997: 110, Figs 8, 13. Holotype ♂, from San Francisco mountains [San Cristóbal prov.], Dominican Republic. [ANSP].

Distribution.— Dominican Republic.

Amphiacusta domingensis Desutter-Grandcolas, 1997

Desutter-Grandcolas & Otte 1997: 108, Figs 7, 12, 16. Holotype ♂, from San Francisco mountains [San Cristóbal prov.], Dominican Republic. [ANSP].

Distribution. — Dominican Republic.

Amphiacusta haitiana Desutter-Grandcolas, 1997

Desutter-Grandcolas & Otte 1997: 108, Figs 6, 11, 15. Holotype ♂, from Port-au-Prince, Haiti. [ANSP].

Distribution. — Haiti, Dominican Republic.

Amphiacusta haitianella Desutter-Grandcolas, 1997

Desutter-Grandcolas & Otte 1997: 110, Fig. 17. Holotype ♀ from Petionville, Haiti. [ANSP].

Distribution. — Haiti.

Amphiacusta haitiensis Desutter-Grandcolas, 1997

Desutter-Grandcolas & Otte 1997: 110, Fig. 18. Holotype ♀ from Fond des Negres, Haiti. [ANSP].

Distribution. — Haiti.

Amphiacusta hispaniolae Desutter-Grandcolas, 1997

Desutter-Grandcolas & Otte 1997: 107, Fig. 5. Holotype ♀, from Furcy, Haiti. [UMMZ].

Distribution. — Haiti.

Amphiacusta minima Desutter-Grandcolas, 1997

Desutter-Grandcolas & Otte 1997: 112, Fig. 9, 10, 14. Holotype ♂, from "Ciudad Trujillo" [Santo Domingo], Dominican Republic. [UMMZ].

Distribution. — Dominican Republic.

Amphiacusta ultima Desutter-Grandcolas, 1997

Desutter-Grandcolas & Otte 1997: 112, Fig. 19. Holotype ♀ from Montecristi, Dominican Republic. [UMMZ].

Distribution. — Dominican Republic.

Yoyuteris Ruíz & Otte, 1996***Yoyuteris barahona*** Ruíz & Otte, 1996

Ruíz & Otte 1996: 231, Figs 3, 4, 8, 11, 12, 14, 18, 19, 20. Holotype ♂, from 4.5 km S. of Barahona, Dominican Republic. [FSCA].

Distribution. — Dominican Republic.

Subfamily **PODOSCIRTINAE*****Chremon*** J.A.G Rehn, 1930***Chremon repentinus*** J.A.G. Rehn, 1930

Rehn 1930: 87, Figs 1-5. Arndt & Dozier 1931: 325. Holotype ♂, from Fond des Negres, Haiti. [ANSP].

Distribution. — Haiti.

Hapithus Uhler, 1864***Hapithus tenuicornis*** (F. Walker, 1869)

Lebussa tenuicornis Walker 1869: 75. Holotype ♀, from "St. Domingo". [BMNH].

Distribution. — Hispaniola.

Laurepa F. Walker, 1869***Laurepa krugi*** (Saussure, 1878)

Apithes krugi Saussure 1878: 607. Holotype ♂, from Cuba. [MBE?].

Distribution. — Cuba, Hispaniola.

Orocharis Uhler, 1864

The genus *Orocharis* is represented in the Caribbean by many species, some very similar in morphology. The real identity of many of the recorded species will only be clear after careful revision of the group based on abundant materials and song data representative of its entire geographic range.

Orocharis dominguensis Saussure, 1878

Saussure 1878: 753. Syntypes ♂ and ♀, from "St. Domingue". [NHMV].

Distribution. — Hispaniola.

Orocharis gryllodes (Pallas, 1772)

Saussure 1874: 495. Kirby 1906: 99. *Orocharis saulcyi*: Saussure 1874: 478. Kirby 1906: 98. Holotype ♂, from Cuba. [MBE].

Distribution. — Cuba, Hispaniola, Mexico, Jamaica, Martinique, United States.

That *O. saulcyi* is a synonym of *O. gryllodes* is based on Hebard (1915: 468), who stated "Unfortunately this distinctive West Indian species has been generally recognized as *O. saulcyi*, which name is an absolute synonym of *gryllodes* of Pallas".

Orocharis latifrons J.A.G. Rehn, 1909

Marcano 1978: 138. Holotype ♀, from Benque Viejo, Belize. [ANSP].

Distribution. — Belize, Dominican Republic?

This species is reported by Marcano (1978) for the Dominican Republic in a very short note that does not warrant its correct identification. The studied specimens are said to differ from *O. similis* by the lack of a bright yellow band along the forewing costal margin. The level of diversification of this genus in the Caribbean and the isolation between Belize and Hispaniola make it difficult to believe that *O. latifrons* would be found in Hispaniola.

Orocharis similis (F. Walker, 1869)

Platydictylus similis Walker 1869: 78. *Orocharis canotus* Saussure 1878: 751. *Orocharis similis*: Kirby 1906: 99. Wolcott 1927: 149, Fig. 33. Santoro 1960: 347. Holotype ♀, from Santo Domingo. [BMNH].

Distribution. — Hispaniola, Cuba.

Subfamily **TRIGONIDIINAE*****Abanaxipha*** Vickery & Poinar, 1994†***Abanaxipha incongrua*** Vickery & Poinar, 1994

Vickery & Poinar 1994: 17, Fig. 5. Holotype ♀, fossil in Dominican amber. [LEM].

†*Abanaxipha longispina* Vickery & Poinar, 1994
Vickery & Poinar 1994: 17, Fig. 12. Holotype ♀, fossil in Dominican amber. [LEM].

Anaxipha Saussure, 1874

†*Anaxipha dominica* Vickery & Poinar, 1994
Vickery & Poinar 1994: 14, Figs 1, 13. Holotype ♀, fossil in Dominican amber. [GOPC].

Grossoxipha Vickery & Poinar, 1994

†*Grossoxipha yaque* Vickery & Poinar, 1994
Vickery & Poinar 1994: 18, Fig. 6. Holotype ♀, fossil in Dominican amber. [LEM].

Proanaxipha Vickery & Poinar, 1994

†*Proanaxipha bicolorata* Vickery & Poinar, 1994
Vickery & Poinar 1994: 16, Fig. 4. Holotype ♂, fossil in Dominican amber. [LEM].

†*Proanaxipha latoca* Vickery & Poinar, 1994
Vickery & Poinar 1994: 15, Figs 2, 3, 8, 9, 10, 11, 15-19. Holotype ♂, fossil in Dominican amber. [GOPC].

Family GRYLLOTALPIDAE
Subfamily GRYLLOTALPINAE

Scapteriscus Scudder, 1868

Scapteriscus abbreviatus Scudder, 1869
Nickle & Castner 1984: 453, Fig. 12. Holotype ♂, from Pernambuco, Brazil. [MCZ].
Distribution.— United States, Argentina, Brazil, Bahamas, Cuba, Guadeloupe, Haiti, Mexico, Paraguay, Puerto Rico, Virgin Islands.

Scapteriscus didactylus (Latreille, 1804)
Frank *et al.* 1987: 479. Type lost, from Cayenne, Suriname.
Distribution.— Suriname, Colombia, Dominica, Grenada, Martinique, Puerto Rico, Dominican Republic, St. Lucia, St. Vincent, Trinidad, Venezuela.

Family ANOSTOSTOMATIDAE
Subfamily ANOSTOSTOMATINAE

Licodia Walker, 1869

Licodia grandis J.A.G. Rehn, 1930
Rehn 1930: 365, Fig. 1. Johns 1997: 131. Holotype ♀, from Fond des Negres, Haiti. [ANSP no. 5492].
Distribution.— Haiti.

Licodia pallipes F. Walker, 1869
Walker 1869: 210. Johns 1997: 131. Holotype ♀, from "St. Domingo". [BMNH].
Distribution.— Hispaniola.

Lutosa F. Walker, 1869

Lutosa obliqua Walker, 1869
Walker 1869: 211. Holotype ♀, from Mexico. [BMNH].
Distribution.— Mexico, Hispaniola.

Family GRYLLACRIDIDAE
Subfamily GRYLLACRIDINAE

Abelona Karny, 1937

Abelona parvula (F. Walker, 1870)
Gryllacris parvulus Walker 1870: 473. Holotype ♂, from St. Domingo. [BMNH].
Distribution.— Hispaniola.

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