

Five New Cricket Species from the Caribbean (Grylloidea, Gryllidae, Eneopterinae)

DANIEL OTTE

*Department of Entomology, Academy of Natural Sciences, Philadelphia 19081
otte@ansp.org*

ABSTRACT

Five new species of crickets in the subfamily Eneopterinae (tribe Hapithini) are reported from Jamaica and Puerto Rico. The species are *Antillicharis dystheratos* n.sp., *A. vocatus* n.sp., *A. volatus* n.sp., *Laurepa killos* n.sp. and *Orocharis elyunquensis* n.sp. The last species is described from Puerto Rico.

INTRODUCTION

This paper describes five new Caribbean cricket species from the subfamily Eneopterinae. Four of the species were studied at the time that *Caribbean Crickets* by Daniel Otte and Daniel Perez-Gelabert (2009) was being assembled. Species were described and illustrated and then misplaced. Consequently they were not included in that work. Here the species are presented along with a new species from Puerto Rico. The paper includes three new species of *Antillicharis*, one new species of *Laurepa* and one new species of *Orocharis*.

List of Species

Antillicharis dystheratos new species — Jamaica
Antillicharis vocatus new species — Jamaica
Antillicharis volatus new species — Jamaica
Laurepa killos new species — Jamaica
Orocharis elyunquensis new species — Puerto Rico

DESCRIPTION OF SPECIES

Genus *ANTILlicharis* Otte and Perez

Seventy one species were previously known in this genus. Of these, six were known from Jamaica (*gaudialis*, *thausios*, *basilios*, *kirrhos*, *gegonos*, *anactorios*).

Antillicharis dystheratos new species

Figure 1

urn:lsid:zoobank.org:act:ECCD2A77-A7A7-4AEC-9484-68A2F43EB7FE

Holotype male — TW061, Jamaica, Hanover Parish, north of Negril, 21 June 1970, Coll. #2, TJ Walker, JJ Whitesell, PC Drummond — Florida State Museum of Arthropods.

Paratypes — 1 male, 1 female, same data as holotype.

Recognition — Fig. 1. Body color uniform pale brown, but forewing with ivory veins. Body narrow, about one quarter the body length

Male measurements (mm) — Holotype number of file teeth: 61. Body length 19; body length to end of wings 25; femur-3 length 12.

Female measurements (mm) — Body length 17; body length to end of wings 25; femur-3 length 13; ovipositor length 13.

Antillicharis vocatus new species

Figure 2

urn:lsid:zoobank.org:act:6790EE2E-DB7D-4948-B809-F6E39DCCA33A

Holotype male — TW068, Jamaica, Hanover Parish, near Dolphin Head, ca. 1500 feet, 20 June 1970, Coll. #1, TJ Walker, JJ Whitesell, PC Drummond — Florida State Museum of Arthropods.

Recognition — Fig. 2. Auditory tympanum on inner and outer faces of tibia-1. Body pale brown, but marked with dark spots on all surfaces. Face with a few dark spots. Dorsal face of pronotum with larger dark markings along median line. Forewings with small dark spots along the lateral margins. Femur-3 with small dark spots on outer face. Tibia-3 with black spots at the base of each spur.

Male measurements (mm) — Holotype number of file teeth: 69. Body length 20; body length to end of wings 26; femur-3 length 11.

Antillicharis volatus new species

Figure 3

urn:lsid:zoobank.org:act:F1BAD158-A83A-4458-BD1B-1657759AA0A8

Holotype male — TW062, Jamaica, St. Catherin Parish, Worthy Park, 12 June 1970, Coll. #1, ca. 1200 feet, TJ Walker, JJ Whitesell, PC Drummond—Florida State Museum of Arthropods.

Recognition — Fig. 3. Auditory tympanum on inner and outer faces of tibia-1. Body uniformly pale brown in color, but head and pronotum darker than femur-3. Without dark spots. Forewings with lateral most veins ivory colored.

Male measurements (mm) — Holotype number of file teeth: 24. Body length 17; body length to end of wings 23; femur-3 length 11

Genus *LAUREPA* Walker

Thirtyseven species of *Laurepa* are known, including the new species described here. Previously two species were known from Jamaica (*canaster* and *valida*).

Laurepa killos new species

Figure 4

urn:lsid:zoobank.org:act:00739ECF-80F4-41E1-90BC-F013B54ED699

Holotype male — TW056, Jamaica, St Catherines Parish, 3 miles east of Worthy, 28 November 1968, TJ Walker #3, 1600 feet — Florida State Museum of Arthropods.

Recognition — Fig. 4. Antennae with a black ring on each segment. Body color gray with numerous dark spots. Face with two broad dark bands, the upper one bowed upwards. Pronotum with black marks along the anterior and posterior margins. Forewing with a dense scattering of dark markings. Femur-3 triangular in cross-section. Femora and tibiae very hairy.

Male measurements (mm) — Holotype number of file teeth: 95. Body length 17; body length to end of wings 28; femur-3 length 14.

Genus *OROCHARIS* Uhler

Eighteen species of *Orocharis* are now known. Most of the species are from Cuba and the United States. Strangely no species were collected on Hispaniola, Jamaica, and until now on Puerto Rico.

Orocharis elyunquensis new species

Figures 5, 6

urn:lsid:zoobank.org:act:10F3C4EC-7782-4A25-B918-1BC1E7BFD295

Holotype male — Puerto Rico, PR 191, km 11.6 near El Yunque, 600 meters, 19 January 1969, TJ Walker and PC Drummond #6 — Florida State Museum of Arthropods.

Recognition — Figs 5, 6. Auditory tympanum only on inner face of tibia-1. Body color pale to reddish brown with dark markings on head pronotum and hind legs. Face with large dark

maculations. Pronotum with numerous small black spots on all surfaces and large dark patches on the dorsum at the anterior and posterior margins. Pronotum also with dark spots along the posterior margin. Forewings with lateral most veins ivory colored, and with black markings along this vein and along crossveins posterior to the mirror. Femur-3 with lighter and darker bands on the dorsum, and outer face with rows of small dark spots. Tibia-3 also spotted.

Holotype measurements (mm) — Holotype number of file teeth: 71. Body length 23; body length to end of wings 28; femur-3 length 15.

Paratype measurements (mm) — Body length 23; body length to end of wings 28; femur-3 length 14.

REFERENCES

- Otte, D. and D. Perez-Gelabert. 2009. Caribbean Crickets. Publications on Orthopteran Diversity. The Orthopterists' Society.

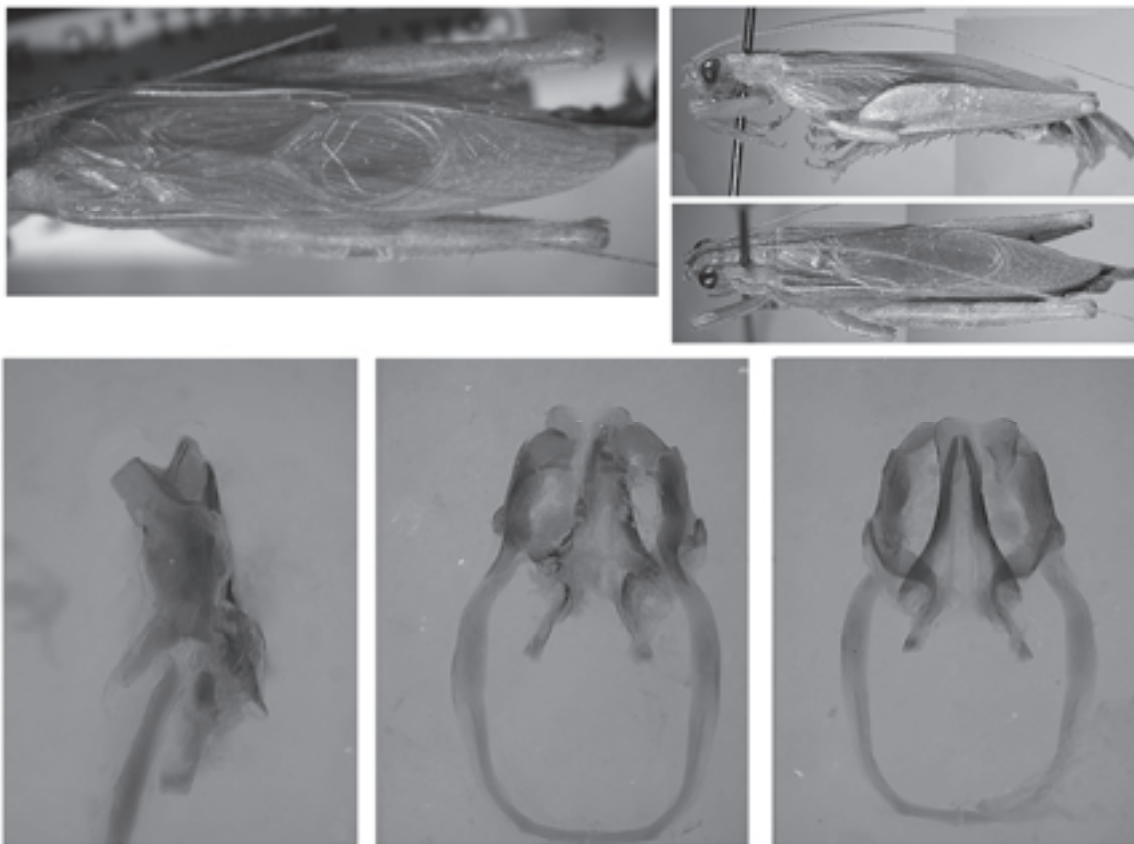


Figure 1. *Antillicharis dystheratos* n. sp. Dorsal field of forewings; portrait—lateral aspect; portrait dorsal aspect; epiphallus lateral, dorsal and ventral views.

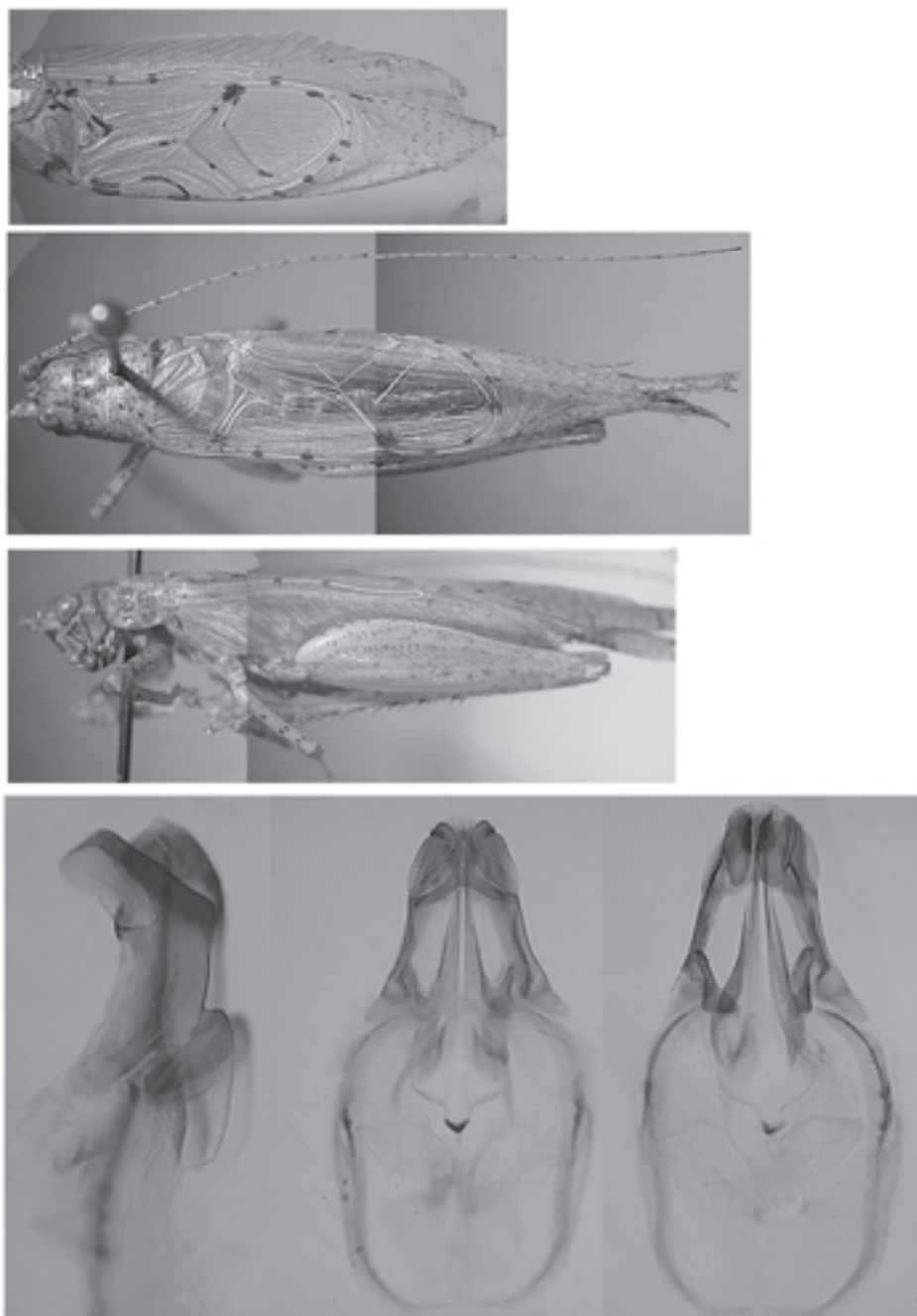


Figure 2. *Antillicharis vocatus* n. sp. Right forewing; portrait dorsal aspect; portrait lateral aspect; epiphallus lateral, dorsal and ventral views.

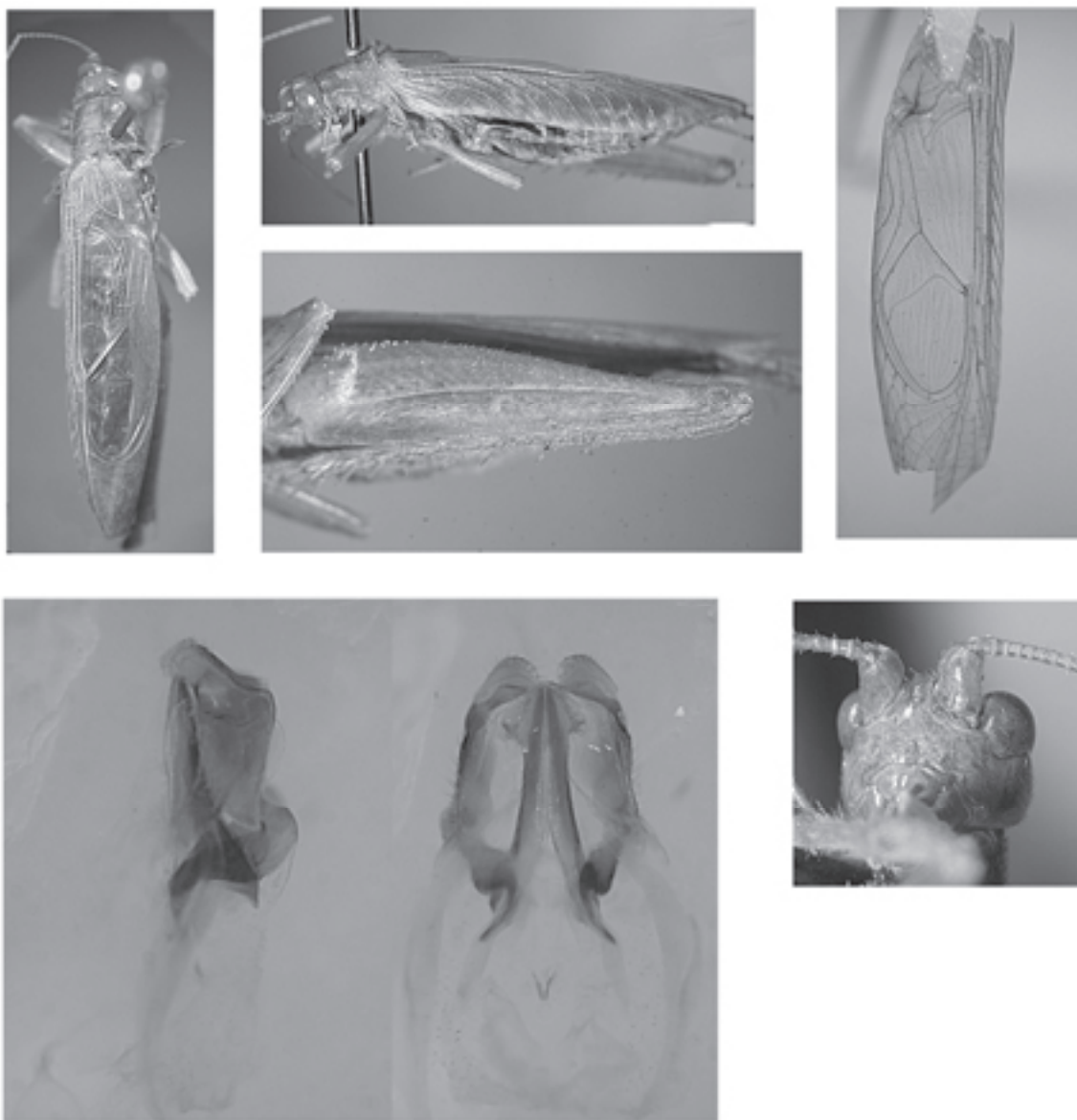


Figure 3. *Antillicharis volatus* n. sp. Portrait dorsal and lateral aspects; femur-3; wing venation of right forewing; epiphallus lateral and ventral aspects; face.

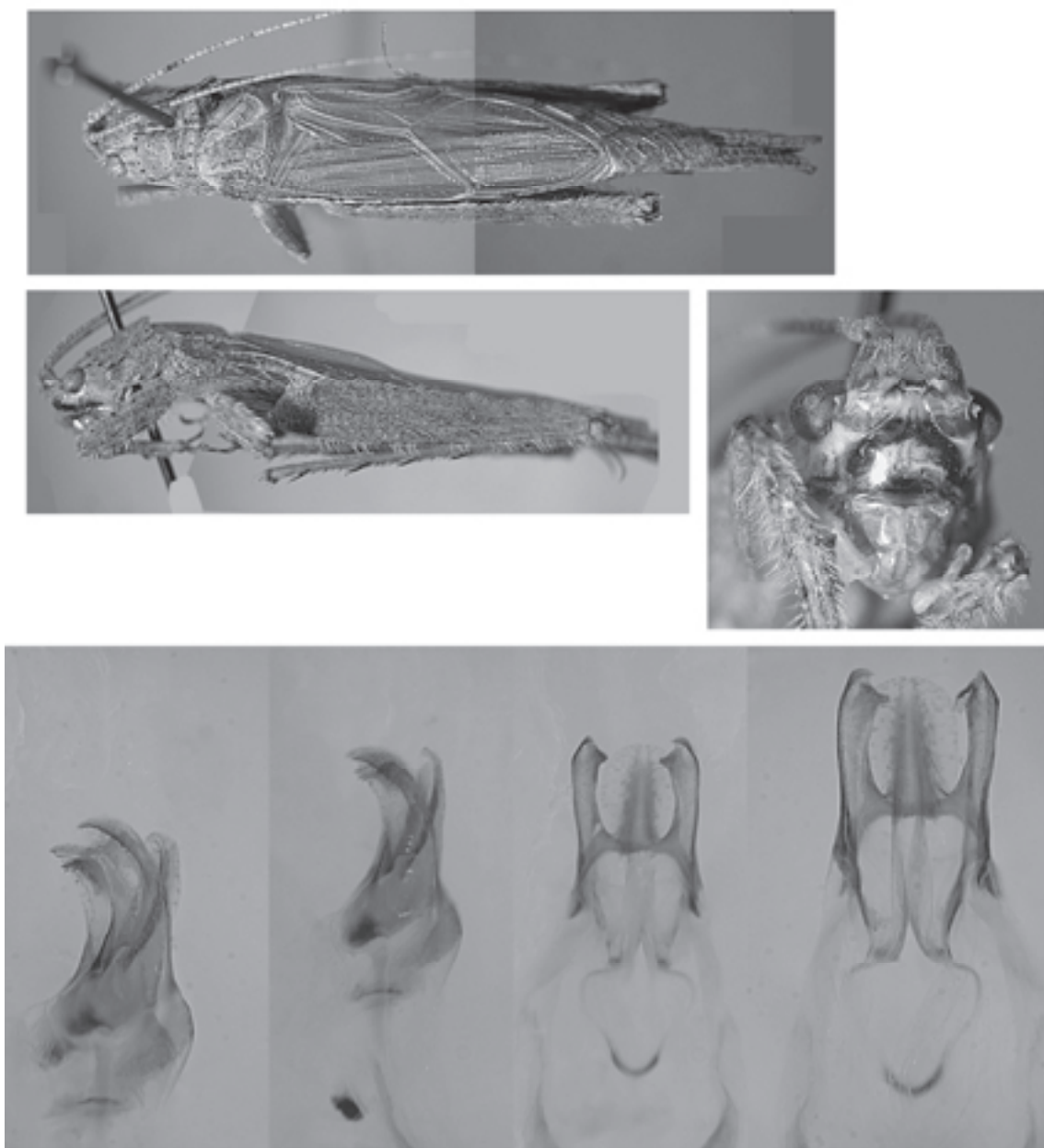


Figure 4. *Laurepa killos* n. sp. Portrait dorsal and lateral aspect; face; epiphallus lateral, dorsal and ventral views.

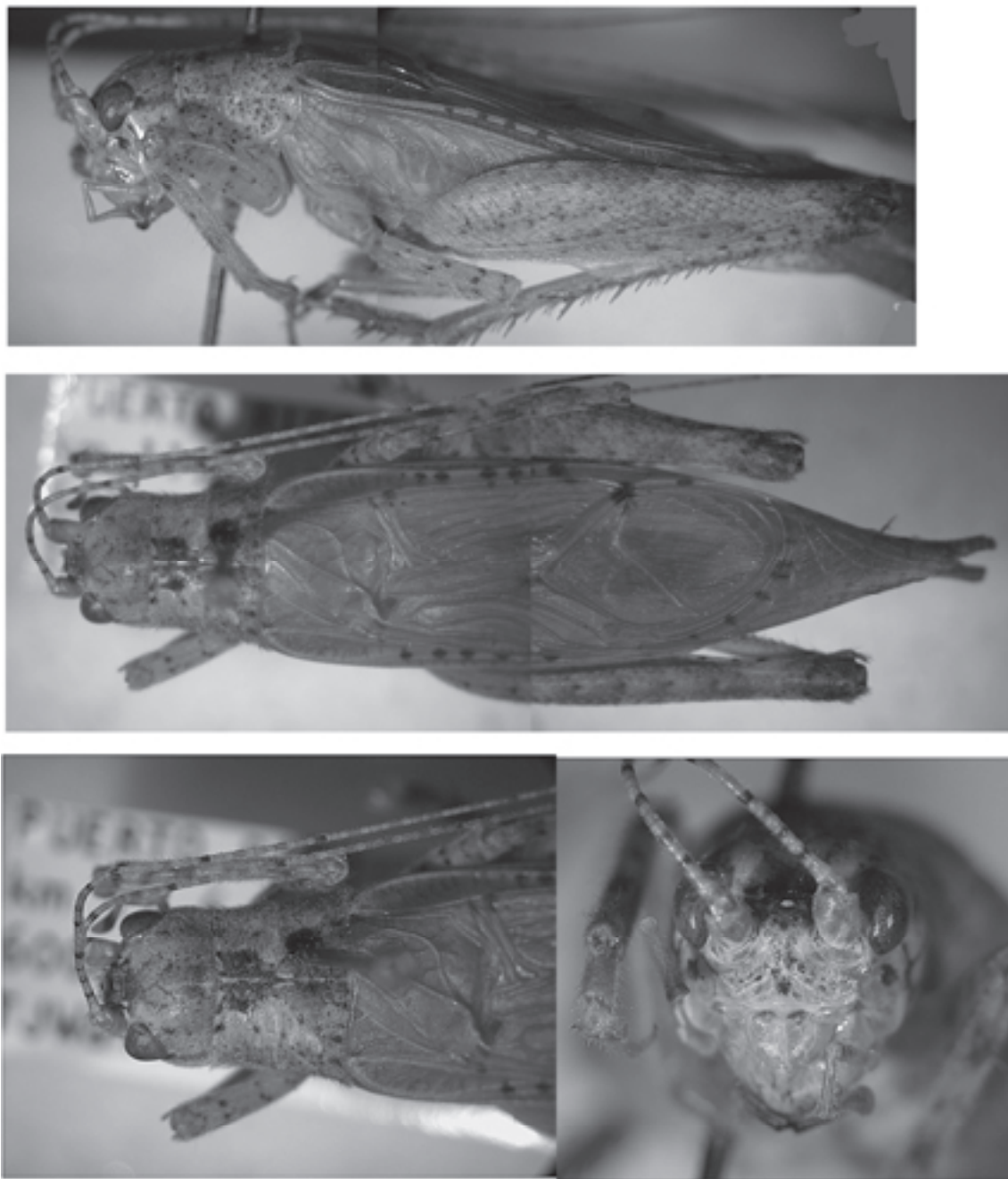


Figure 5. *Orocharis elyunquensis* n. sp. Portrait lateral and dorsal aspects; face.

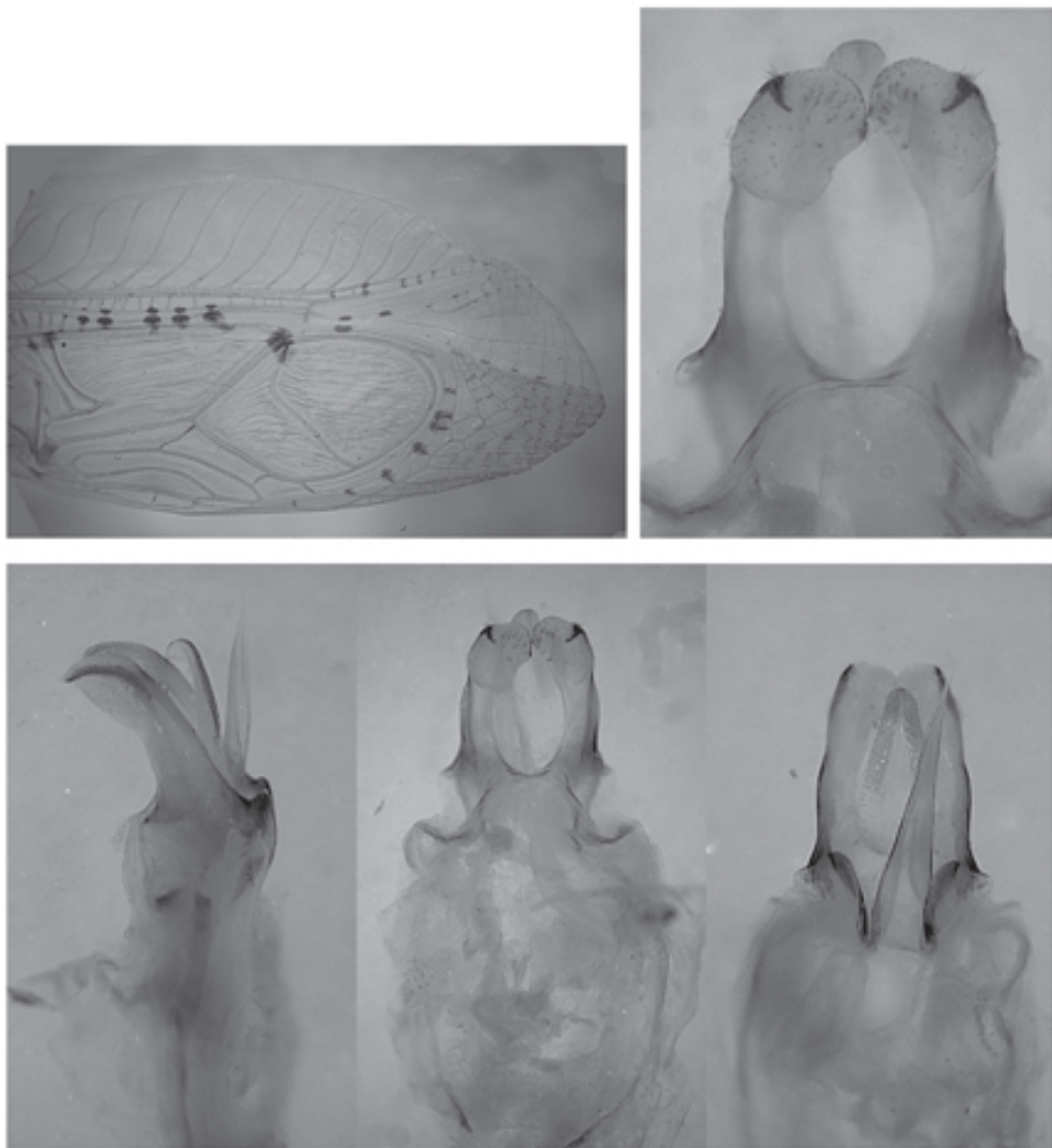


Figure 6. *Orocharis elyunquensis* n. sp. Right forewing; epiphallus: dorsal, lateral, dorsal and ventral views.