

Novelties on Orthoptera of the Cyclades Archipelagos, Greece

Sotiris Alexiou & Kelli Papapavlou

Abstract

The present paper comprises new faunistic data for the islands of the Cyclades Archipelagos. Four taxa are added to the list of Paros Isl., one to Amorgos Isl. and one to Iraklia Isl. Confirmation of the presence of *Anadrymadusa brevipennis* (Brunner von Wattenwyl, 1882) on Paros Island is presented. *Oecanthus dulcisonans* Gorochov, 1993 is new to the fauna of the Cyclades.

Zusammenfassung

In der vorliegenden Arbeit werden neue faunistische Daten von den Inseln des Kykladen-Archipels geliefert. Vier Taxa werden der Liste der Insel Paros hinzugefügt, eines der Insel Amorgos und eine Iraklia. Das Vorkommen von *Anadrymadusa brevipennis* (Brunner von Wattenwyl, 1882) auf der Insel Paros wird bestätigt. *Oecanthus dulcisonans* Gorochov, 1993 ist neu in der Fauna der Kykladen.

Introduction

The Orthoptera specimens had been collected by means of an entomological sweep net during field trips (mainly of short duration and nocturnal) in years 2015–2018. The specimens were pinned, dried and deposited at the Zoological Museum of the University of Athens ZMUA and the collection of the first author (cSA).

Tettigoniidae

***Acrometopa cretensis cretensis* Ramme, 1927 (Fig. 1)**

Paros Isl., Lefkes, 6.VI.2018, 1♂, obs. & photo Alexiou & Papapavlou, not collected. A taxon endemic to the south Aegean Sea (Cyclades and Kriti) (WILLEMSE et al. 2018), new to Paros.

***Anadrymadusa brevipennis* (Brunner von Wattenwyl, 1882) (Fig. 2)**

Paros Isl., Mt. Korakas, 6.VI.2018, 1♂, leg. Alexiou & Papapavlou. Confirmed for Paros.

The record of WERNER (1934) of *A. brevipennis* from Paros was considered uncertain by WILLEMSE (1984), WILLEMSE & WILLEMSE (2008) and WILLEMSE et al. (2018), because the specimens were juvenile. We now confirm the presence of the species on Paros almost 90 years after Werner's records.

KARABAĞ (1961), in his revision of *Anadrymadusa*, had the possibility to study two specimens of *A. brevipennis* originating from Siros Isl. ('Syra'). He noted that more specimens from other Aegean islands should be studied in order to correctly evaluate their taxonomic status. Siros Island is located 35 km northwest of Paros

island. The Paros specimen fully corresponds with the specimens from Siros. We studied characters of the pronotum, elytra, appendages of last tergite, cerci, subgenital plate and genitalia and no substantial differences were observed (Fig. 2). The coloration is rather uniform, light brownish. Morphometrics (in mm): body 32.68, elytra 9.97, femora 27.76, pronotum 10.88.

Anadrymadusa brevipennis is an Aegean endemic (WILLEMSE et al. 2018), although a single record from Turkey is mentioned in KARABAĞ et al. (1974). It is considered vulnerable in the IUCN European Red list (HOCHKIRCH et al. 2016). Besides Siros and Paros the species is known from Kea, Andros, Tinos, Kithnos, Polýaigos, Episkopi, Naxos, Thira, Skiros and Evvia islands (WILLEMSE 1984, WILLEMSE & WILLEMSE 2008, WILLEMSE et al. 2018). Records from other Cyclades islands (Amorgos, Antiparos, Iraklia and Kato Koufonisi) are based on juvenile specimens or observations and are in need of confirmation. An overall evaluation of specimens from a wide range of islands could reveal characters of taxonomic significance.

***Platycleis (Platycleis) intermedia intermedia* (Serville, 1839)**

Paros Isl., Mt. Korakas, 6.VI.2018, 1♀, leg. Alexiou & Papapavlou. A taxon common throughout Greece and Cyclades. New to Paros.

***Rhacocleis insularis* Ramme, 1928**

Amorgos Isl., Egiali, 5.X.2015, 1♀, leg. Alexiou. An endemic of the Cyclades, here found in its easternmost location. New to Amorgos.

Gryllidae

***Oecanthus dulcisonans* Gorochov, 1993**

Iraklia Isl., 25.VIII.2017, 1♀, leg. Gavalas. Paros Isl., Lefkes, 7.VI.2018, 1♂, leg. Alexiou & Papapavlou. New record for Kiklades.

This identification was based on the structure of genitalia (Fig. 3), the morphologic characters set by CORDERO et al. (2009) and song. Another species, *O. pellucens* (Scopoli, 1763) is already known from the Cyclades (WILLEMSE et al. 2018). The two species have constant and clear differences in song, genitalia and morphology (CORDERO et al. 2009). *Oecanthus dulcisonans* has been recorded from Thraki and Kriti but it is speculated to be much more widespread (WILLEMSE et al. 2018).

Morphometrics (in mm): ♂, Paros: tegmina 14, pronotum 2, hind femur 7. ♀, Iraklia: tegmina 11.5, pronotum 2, hind femur 9, ovipositor 5.7.

The Orthoptera fauna of the island of Iraklia was recently published (ALEXIOU et al. 2017), numbering 20 species. With the present addition that number rises to 21.

Acrididae

***Oedipoda caerulescens* (Linnaeus, 1758)**

Paros Isl., Mt. Agioi Pantes, 6.VI.2018, 2♀, leg. Alexiou & Papapavlou. A taxon common throughout Greece and Cyclades. New to Paros.

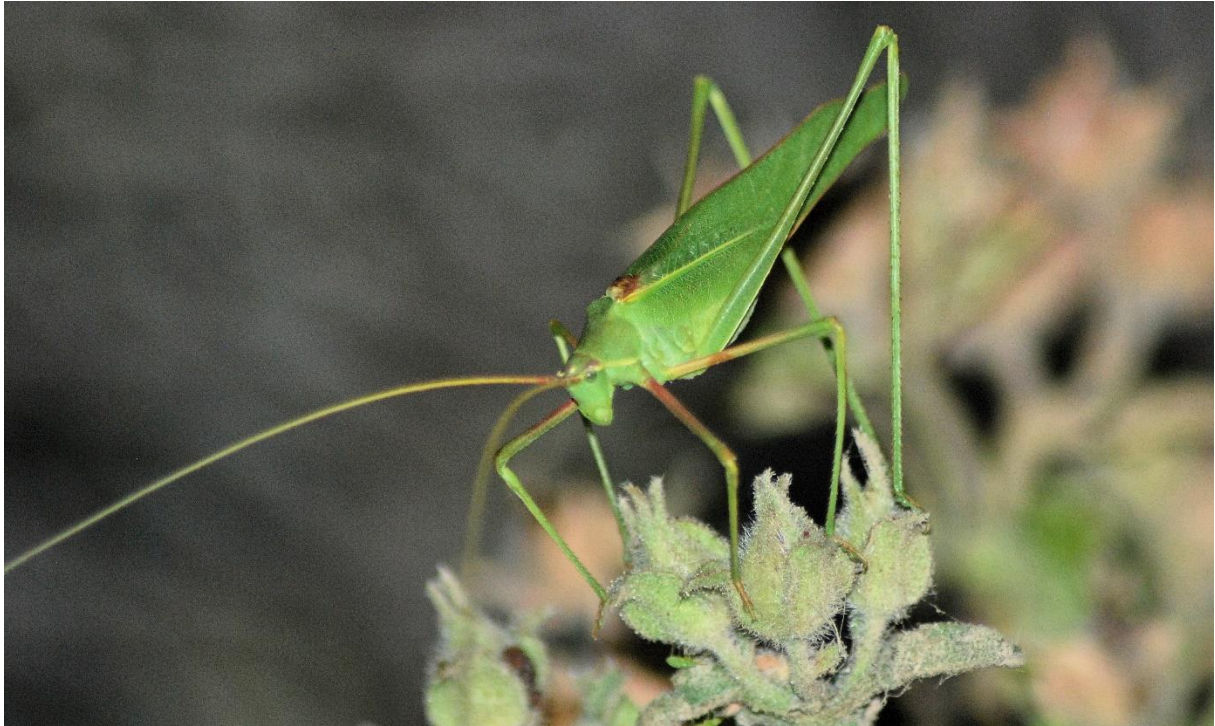


Fig. 1: *Acrometopa cretensis cretensis*, ♂, 6.VI.2018, Lefkes, Paros Isl.

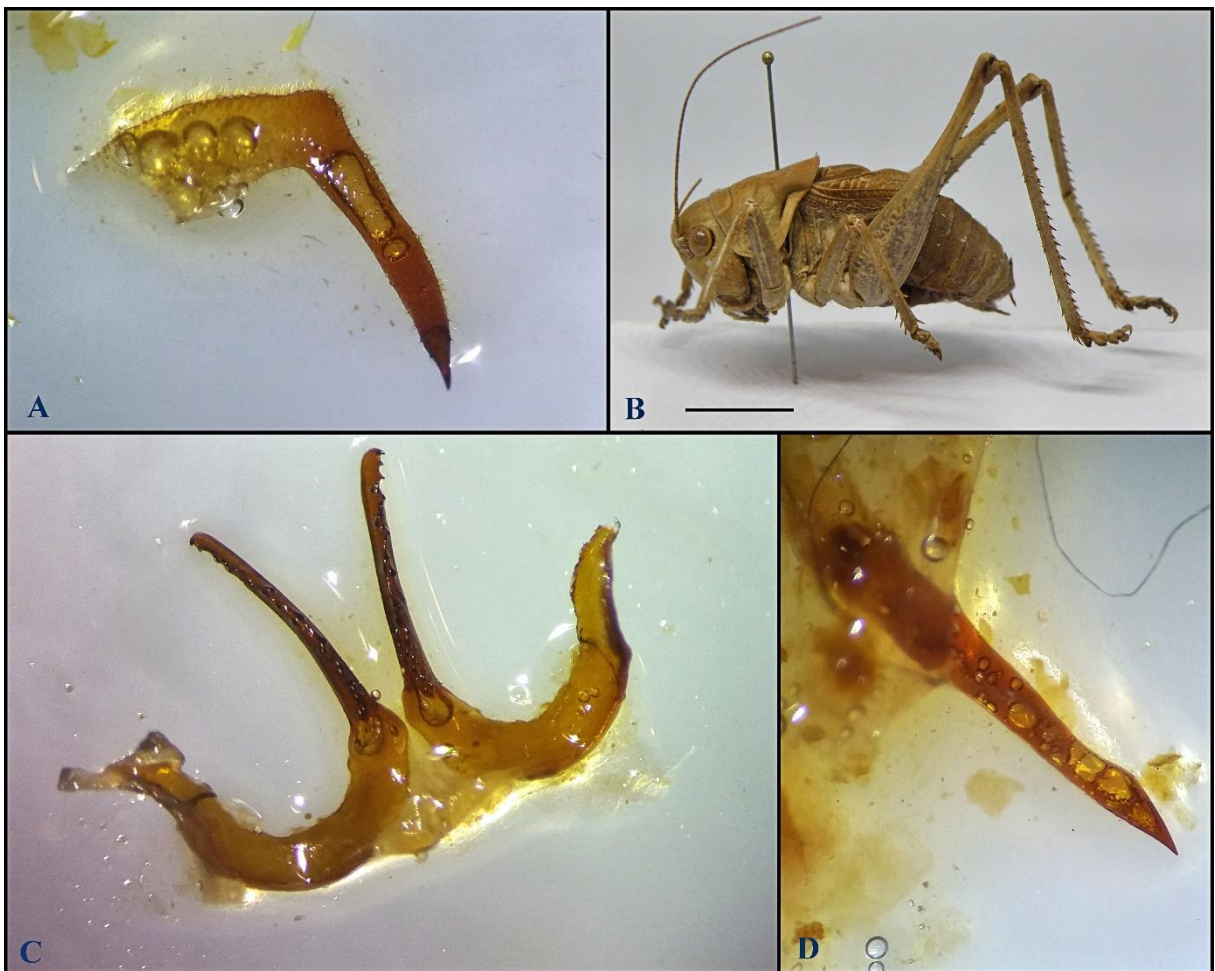


Fig. 2: *Anadrymadusa brevipennis*, Paros, ♂, 6.VI.2018. A: right cercus, B: habitus, C: titillator, D: right appendage of last tergite (scale bar 1 cm).



Fig. 3.:
Oecanthus dulcisonans, Paros, 7.VI.2018, titillator.

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Authors:

Sotiris Alexiou

Deutsches Institut für Lebensmitteltechnik e.V.

Prof.-von-Klitzing-Str. 7

D-49610 Quakenbrück

Germany

E-Mail: sotirisalexiou@hotmail.com

Kelli Papapavlou

Biologist MSc Ecology

Artemidos 15 Metamorfosi

Attiki, Greece

E-Mail: kpapapavlou@ath.forthnet.gr

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