

**A short note on light trap collected Deltocephalinae
(Homoptera: Cicadellidae) species from the
Mediterranean Region of Turkey**

Serdar TEZCAN¹ Esat PEHLİVAN¹ Yusuf KARSAVURAN¹

Ünal ZEYBEKOĞLU²

Özet

**Akdeniz Bölgesi'nden ışık tuzaklarıyla yakalanan Deltocephalinae
(Homoptera: Cicadellidae) türleri üzerinde kısa not**

Akdeniz Bölgesi böcek faunasını ortaya koyma amacıyla yürütülen proje çalışmaları sırasında ışık tuzaklarıyla 1984 yılı Nisan-Ağustos aylarında yakalanan Deltocephalinae altfamilyasına bağlı türler bu çalışmada ele alınmıştır.

Çalışma sonunda *Grypotes staurus* Ivanoff, 1855, *Exitianus taeniaticeps* (Kirschbaum, 1868), *Allygus modestus* Scott, 1876, *Thammnotettix creticus* Dlabola, 1974 ve *Euscelidius variegatus* (Kirschbaum, 1858) olmak üzere beş tür belirlenmiş olup, bunlar içinde *E. taeniaticeps* Türkiye faunası için ilk kayıt niteliği taşımaktadır. En bol olan tür ise *E. variegatus*'tur.

Anahtar sözcükler: Cicadellidae, Deltocephalinae, fauna, ışık tuzak, Türkiye.

1 Prof. Dr., Department of Plant Protection, Faculty of Agriculture, University of Ege,
35100 Bornova, Izmir, Turkey

e-mail: tezcan@ziraat.ege.edu.tr

2 Prof. Dr., Department of Biology, Faculty of Science, University of Ondokuz
Mayıs, Kurupelit, Samsun, Turkey

Introduction

Deltocephalinae fauna of Turkey has been studied intensively by different researchers (1, 2, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18). In recent studies (3, 4, 5, 20, 21) Deltocephalinae fauna of Turkey has been evaluated in regional base and species collected from the Mediterranean region of Turkey (19) by light traps in 1984 belonging to Deltocephalinae have been given in the current paper.

Material and Methods

Material evaluated in this paper have been collected by light traps in the Mediterranean Region of Turkey during the months of April-August, 1984.

In this study, incandescent (N.), blue (B.), red (R.) and yellow (Y.) lamps have been used in light traps. The power of each lamp was 60 watt. Traps have been set up around the agricultural or forestry lands from the beginning of night (20.00) up to the morning (06.00) and collected Deltocephalinae material have been evaluated.

Material have been housed in Prof. Dr. Niyazi Lodos Museum (LEMIT), Plant Protection Department, Agricultural Faculty, Ege University, Bornova, Izmir, Turkey and undetermined material have been recently determined by junior author.

Results

Grypotes staurus Ivanoff, 1855

Reported from Adana (Ağapınarı, Kozan, Suluhan) (1); Hatay (Yayladağ-Belen) (8); Izmir (Yamanlar), Konya (Ermenek), Muğla, Samsun (Bafra-Alaçam) (9) and Samsun (Yakakent, Çamgölü) (20, 21). Its host plant is *Pinus halepensis* (6, 7).

Material studied: Antalya (Gazipaşa), 22.v.1984, (N.) (2); 24.v.1984, (N.) (1); Hatay (Central province-Harbiye), 7.vii.1984, (N.) (3); İçel (Mut), 25.v.1984, (B.) (1). Totally seven specimens.

Exitianus taeniaticeps (Kirschbaum, 1868)

This species constitutes a new record for Turkish fauna.

Material studied: Hatay (Central province-Harbiye), 7.vii.1984, (N.) (1); Içel (Erdemli), 30.v.1984, (Y.) (1). Totally two specimens.

Allygus modestus Scott, 1876

Previously recorded from Muğla (Marmaris) (2).

Material studied: Hatay (Central province-Harbiye), 7.vii.1984, (N.) (4). Totally four specimens.

Thammnotettix creticus Dlabola, 1974

Reported from Adana (Gülek), Hatay (Iskenderun), Içel (Kuzucubelen, Çamlıyayla), Osmaniye (3); Içel (Silifke), Sinop (Mertoğlu) (15); Samsun (Kurupelit) (4, 21); Amasya (Suluova), Samsun (Alaçam, Altinkaya, Çarşamba, Kurupelit, Vezirköprü), Tokat (Reşadiye, Turhal) (5).

Material studied: Adana (Kozan), 4.vi.1984, (N.) (1); Hatay (Central province-Harbiye), 7.vii.1984, (N.) (5); Içel (Anamur) 23.v.1984, (N.) (2). Totally eight specimens.

Euscelidius variegatus (Kirschbaum, 1858)

Recorded from Bursa (Inegöl) and Istanbul (Erenköy) (16).

Material studied: Adana (Karatepe), 6.vi.1984, (R.) (1); Antalya (Gazipaşa), 22.v.1984, (N.) (1); Hatay (Central province-Harbiye) 7.vii.1984, (N.) (8); Içel (Anamur), 23.v.1984, (N.) (12); (Erdemli), 30.v.1984, (B.) (1); Kahramanmaraş (Nurhak Mountain),

22.vii.1984, (R.) (1); Osmaniye (Zorkun), 7.vi.1984, (R.) (1). Totally 25 specimens.

As a result of study, five species were determined. Among those *E. taeniaceps* is the first record for Turkish fauna, and *E. variegatus* being the most abundant species. Most of the material have been collected by incandescent lamps.

Summary

This study was carried out to determine the insect fauna of Mediterranean region of Turkey during the months of April-August, 1984. Species collected by light traps belonging to Deltocephalinae were evaluated in this article.

As a result of study, five species were determined. These are *Grypotes staurus* Ivanoff, 1855, *Exitianus taeniaceps* (Kirschbaum, 1868), *Allygus modestus* Scott, 1876, *Thamnotettix creticus* Dlabola, 1974 and *Euscelidius variegatus* (Kirschbaum, 1858). Among those *E. taeniaceps* is the first record for Turkish fauna, and *E. variegatus* being the most abundant species.

Key words: Cicadellidae, Deltocephalinae, fauna, light trap, Turkey.

References

1. Dlabola, J., 1957. Results of the zoological expedition of the National Museum in Prague to Turkey. 20. Homoptera Auchenorrhyncha. **Acta ent. Musei Nat. Pragae**, **31** (469): 19-68.
2. Dlabola, J., 1971. Taxonomische und Chorologische erganzungen der Zikadenfauna von Anatolien, Iran, Afghanistan und Pakistan (Homoptera, Auchenorrhyncha). **Acta ent. Bohem.**, **68** (6): 377-396.
3. Kartal, V., 1983. Neue Homopteren aus der Türkei II. (Homoptera, Auchenorrhyncha). **Marburger Ent. Publ.**, **1** (8): 235-248.
4. Kartal, V. & Ü. Zeybekoğlu, 1991. Samsun Ondokuz Mayıs Üniversitesi Kurupelit Kampüsü çevresinde Deltocephalinae (Homoptera, Auchenorrhyncha, Cicadellidae) altfamilyası türlerinin faunistik yönden incelenmesi. **Ondokuz Mayıs Üniversitesi Fen Dergisi**, **3** (1): 232-257.
5. Kartal, V., Ü. Zeybekoğlu & Ö. Aşıkoğlu, 1994. Orta Karadeniz Bölgesinde bulunan *Thamnotettix* Zetterstedt, 1838 (Homoptera: Cicadellidae) cinsinin türleri üzerine taksonomik bir araştırma. XII. Ulusal Biyoloji Kongresi, 6-8 Temmuz 1994, Edirne, 210-216.
6. Lindberg, H., 1948. On the Insect Fauna of Cyprus. II. Heteroptera und Homoptera Cicadina der Insel Zypern. Soc. Scien. Fennica Comment. Biol. X. 7., 163 pp.

7. Linnavuori, R., 1962. Hemiptera of Israel III. **Ann. Zool. Soo. "Vanomo"**, **24**: 1-108.
8. Linnavuori, R., 1965. Studies on the South and East-Mediterranean Hemipterous Fauna. **Acta Ent. Fennica**, **21**: 1-70.
9. Lodos, N. & A. Kalkandelen, 1985a. Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey. XVII. Family Cicadellidae: Deltocephalinae: Grypotini, Goniagnathini and Opsiini (Part I). **Türk. Bit. Kor. Derg.**, **9** (2) : 79-90.
10. Lodos, N. & A. Kalkandelen, 1985b. Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey. XVIII. Family Cicadellidae: Deltocephalinae: Macrostelini (Part II). **Türk. Bit. Kor. Derg.**, **9** (3) : 147-161.
11. Lodos, N. & A. Kalkandelen, 1985c. Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey. XIX. Family Cicadellidae: Deltocephalinae: Deltocephalini, Scaphytopiini, Doraturini. **Türk. Bit. Kor. Derg.**, **9** (4) : 207-215.
12. Lodos, N. & A. Kalkandelen, 1986a. Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey. XX. Family Cicadellidae: Deltocephalinae: Fieberiellini, Stirellini and Tetartostylini. **Türk. Bit. Kor. Derg.**, **10** (1) : 25-32.
13. Lodos, N. & A. Kalkandelen, 1986b. Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey. XXI. Family: Cicadellidae: Deltocephalinae: Atysanini (Part I). **Türk. Bit. Kor. Derg.**, **10** (3) : 131-139.
14. Lodos, N. & A. Kalkandelen, 1986c. Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey. XXII. Family: Cicadellidae: Deltocephalinae: Atysanini (Part II). **Türk. Bit. Kor. Derg.**, **10** (4) : 203-211.
15. Lodos, N. & A. Kalkandelen, 1987a. Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey. XXIII. Family: Cicadellidae: Deltocephalinae: Atysanini (Part III). **Türk. Bit. Kor. Derg.**, **11** (1) : 29-40.
16. Lodos, N. & A. Kalkandelen, 1987b. Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey. XXIV. Family: Cicadellidae: Deltocephalinae: Atysanini (Part IV). **Türk. Bit. Kor. Derg.**, **11** (1) : 97-109.
17. Lodos, N. & A. Kalkandelen, 1987c. Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey. XXV. Family: Cicadellidae: Deltocephalinae: Paralimnini (Part I). **Türk. Bit. Kor. Derg.**, **11** (3) : 151-162.

18. Lodos, N. & A. Kalkandelen, 1988. Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey. XXVII (Addenda and Corrigenda). **Türk.entomol.derg.**, **12** (1) : 11-22.
19. Lodos, N., F. Önder, E. Pehlivan, R. Atalay, E. Erkin, Y. Karsavuran & S. Tezcan, 1989. Akdeniz Bölgesi'nin ziraatta zararlı ve faydalı böcek faunasının tesbiti üzerinde araştırmalar (Curculionidae, Scarabaeidae (Coleoptera), Plataspidae, Cydnidae, Acanthosomatidae, Scutelleridae, Pentatomidae, Lygaeidae, Miridae (Heteroptera)). **Doğa Türk Tarım ve Ormancılık Dergisi**, **13** (1): 81-88.
20. Zeybekoğlu, Ü., 1994. Orta Karadeniz Bölgesinde bulunan *Grypotes* Fieber, 1866 (Homoptera: Auchenorrhyncha: Cicadellidae: Deltocephalinae) cinsinin türleri üzerine taksonomik bir araştırma. **Turkish Journal of Zoology**, **18**: 61-64.
21. Zeybekoğlu, Ü., 1998. The species of Deltocephalinae (Homoptera: Auchenorrhyncha: Cicadellidae) found in the Middle and East Black Sea regions. **Türk. entomol. derg.**, **22** (1): 37-45.