

Preliminary list of Auchenorrhyncha with notes on distribution and importance of species in Turkey.

X. Family Cicadellidae : Xestocephalinae, Stegelytrinae and Cicadellinae

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Summary

This paper comprises list of six species of five genera from three subfamilies from, which three species, *Stegelytra sororcula* Dlabola, *Evacanthus acuminatus* (F.) and *E. interruptus* (L.) are new records for Turkey. Distribution, abundance and plants which the specimens were collected of each species are given.

Introduction

Fahringer (1922), Gadeau de Kerville (1939) and Linnavuori (1965) reported *Cicadella virididis* (L.) with locality citations in Turkey. Metcalf (1965) recorded the same species from Turkey according to Fahringer (l. c.). Dlabola (1957a, 1981) listed *Xestocephalus guttulatus* (Motsch.) and *Anoterostemma ivanoffi* (Leth.) on his works. Nast (1972) also listed these three species from Turkey.

Cicadella viridis (L.), is the only one reported being harmful to fruit and forest trees and shrubs. Its injury to plants is similar to that of *Cerasa bubalus*. Even though it is very widely distributed and found abundantly, at the moment it has not observed causing damage economically on cultivated plants in Turkey.

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Xestocephalinae

Xestocephalus guttulatus (Motschulsky, 1859)

General distribution : Turkey; (Oriental and Ethiopian Regions).

Distribution in Turkey : This species had been recorded in Adana (Karataş) and Mersin (Erdemli) by Dlabola (1957a, 1981).

The authors have no representative of this species.

Stegelytrinae

Stegelytra sororcula Dlabola, 1974

General distribution : Iran (Dlabola 1974, 1981).

Distribution in Turkey : This is the first record of this species in Turkey.

Material examined : Mardin-Only one male specimen.

Occurrence : Very rare.

Biological note : Specimen was taken at the beginning of June on *Quercus* sp. Dlabola (1974) has also given *Quercus* (? *persica*) as a host plant of this species which he collected in Iran, at sunny and warm places.

Cicadellinae

Evacanthus acuminatus (Fabricius, 1794)

Synonymy : *Cicada acuminata* Turton, 1802; *C. interstincta* Fall. 1806; *Amblycephalus germari* Curt., 1833.

General Distribution : Afghanistan, Austria, Belgium, Bulgaria, Czechoslovakia, Denmark, England, Finland, France, Germany, Hungary, Ireland, Italy (also Sicily), Japan (Honshu), Korean Peninsula, Mongolia, Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, USSR, Yugoslavia; (Nearctic region).

Distribution in Turkey : This species constitutes a new record for Turkey.

Material examined : Artvin (Hopa, Murgul), Giresun (Şebinkarahisar), Gümüşhane (Şiran, Zigana), İzmir (Ödemiş-Bozdağ), Rize (Kaçkar dağı).

Samsun (Central province, Bafıa), Sivas (Suşehri-Ortakent), Tokat (Erbaa) -
Totally 17 specimens.

Occurrence : Common, but found in small numbers.

Biological note : Specimens were collected starting from the beginning of June, mostly in July and through the end of August, on various weeds and a few found on *Urtica* sp., *Rubus* sp. Dlabola (1957b) stated that it is found on meadows in forest. Ribaut (1952) recorded it being found in humid places. Emelyanov (1964) has given succulent plants as its host plants.

Evacanthus interruptus (Linnaeus, 1758)

Synonymy : *Cicada bicordata* Scop., 1763; *C. hemiptera* Piller et Mitterpacher, 1783; *C. moesta* Zett., 1828; *Eucanthus nigroflavus* Stal, 1858; *Eu.nigricans* Mats., 1911; *Eu. miyakei* Mats., 1911; *Eu. interruptus xanthus* Osh., 1912; *Eu. nigricans pallidus* Mats., 1912; *Eu. svaneticus* Mel., 1913; *Eu. interruptus rubescens* Haupt., 1925; *Eu. striatus* Kusn., 1929.

General Distribution : Albania, Austria, Belgium, Bulgaria, China, Czechoslovakia, Denmark, England, Finland, France, Germany, Hungary, Ireland, Italy, Japan, Korean Peninsula, Mongolia, Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, USSR., Yugoslavia; (Nearctic region).

Distribution in Turkey : This is the first record of this species in Turkey.

Material examined : Ankara (Karagöl), Artvin (Hopa), Gümüşhane (Şiran), İzmir (Ödemiş - Bozdağ), Sivas (Suşehri - Ortakent), Tokat (Erbaa) -
Totally 48 specimens.

Occurrence : Somewhat common and sometimes found in large numbers.

Biological note : Specimens were collected starting from late June, mostly in July and through the beginning of September. They were collected mostly on *Mentha aquatica* and some on *Urtica* and other weeds. Ribaut (1952) stated this species is found in humid places and Emelyanov (1964) on succulent plants.

Anoterostemma ivanoffi (Lethierry, 1876)

Synonymy : *Doratura fusca* Ivanoff, 1885; *Anoterostemma henschii* Löw, 1885.

General Distribution : Italy, Turkey, USSR., Yugoslavia.

Distribution in Turkey : Dlabola (1957a, 1981) recorded it from Ankara (Beynam and Mogan gölü).

Material examined : Ankara (Eymir gölü, Polatlı) - Totally 4 specimens.

Occurrence : Very rare.

Biological note : Specimens were collected in late May through the beginning of July on *Juncus* sp.

Cicadella viridis (Linnaeus, 1758)

Synonymy : *Tettigonia arundinis* Germ., 1821; *T. flavicatella* Graaf., 1854; *Tettigoniella viridis concolor* Haupt., 1912.

General Distribution : Albania, Austria, Belgium, Bulgaria, China, Czechoslovakia, Denmark, England, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Korean Peninsula, Mongolia, Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Turkey, USSR, Yugoslavia (Nearctic and Oriental regions). Iran (Dlabola, 1971, 1981).

Distribution in Turkey : Fahringer (1922) recorded it from Bursa (Uludağ at 1000 m., 1911) and İstanbul (Belgrad ormanı 1909, 1911 and Polonezköy 1911, 1912) on *Juncus acutus*. Gadeau de Kerville (1939) reported it from İzmir in May, 1912. Linnavuori (1965) has taken one specimen from Bolu (Akçakoca).

Material examined : Amasya (Central province, Taşova), Artvin (Central province, Borçka, Murgul), Balıkesir (Susurluk, Gönen), Çanakkale (Settülbahir), Diyarbakır (Devegeçidi, Central province), Edirne (Havsa, Keşan, İpsala), Erzincan (Başköy, 900 m.), İzmir (Seferihisar), Kars (Aralık, Digor), Kırklareli (Pınarhisar, Lüleburgaz), Manisa, Mardin (Central province, Nusaybin, Ömerli), Muğla (Dalaman), Samsun (Central province, Havza), Tekirdağ - Totally 133 specimens.

Occurrence : Very common but sometimes found in large numbers.

Biological note : Specimens were collected starting from late May, mostly in June and July, through October, even till the beginning of November in hot places. Specimens were taken mostly from Alfalfa, Clover, Sunflower, Rice, leguminous plants, Grapevine and in meadows. Some specimens were taken also from light traps and yellow-cup traps. *Juncus acutus*, *Juncus* spp., *Arundo*, *Phragmites*, *Sphagnum*, *Carex*, *Filipendula*, *Glyceria*, *Panicum*, *Cyperus*, *Oryza sativa* and *Alnus glutinosa* are given as host plants of this species (Fahringer, 1922; Dlabola, 1957a, 1966; D'Urso, 1980) and they stated

that it lives in salt marshes and humid biotopes. This species had been reported to cause damage due to oviposition in the branches of deciduous forest trees in September and some attacked trees died consequently (Schindler, 1960). Lodos (1932) also recorded it being harmful to several fruit forest trees and shrubs. This species has an egg parasite *Anagrus atomus* (L.) (Hym : Mymaridae) (Maillet, 1960).

Özet

Türkiye Auchenorrhyncha türlerinin yayılışı ve önemlerine ait notlarla ön listesi.

X. Familya Cicadellidae : Xestocephalinae, Stegelytrinae ve Cicadellinae

Bu makale, üç altfamilyaya bağlı beş cinse ait altı türü kapsamaktadır. Bunlardan üç tür: *Stegelytra sororcula* Dlabola, *Evacanthus acuminatus* (F.) ve *E. interruptus* (L.) Türkiye için yeni kayıtlardır. Her bir türün yayılışı, ekonomik önemi ve üzerinden toplandıkları bitkiler verilmiştir.

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