

Preliminary list of Auchenorrhyncha with notes on distribution and importance of Turkey. XXVII. (Addenda and Corrigenda)

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Summary

With this supplementary list of Auchenorrhyncha of Turkey are added by 145 species belong 49 genera of which most of them are new species. These are described by various authors that collected in different parts of Turkey. Thus with this last issue, the Auchenorrhyncha fauna of Turkey is now representing by 725 species belonging to 275 genera.

Introduction

This is the last part to our series of "Preliminary list of Auchenorrhyncha with notes on distribution and importance of species of Turkey,, which started to publish in parts since 1980. The present part contains particularly the new taxa or records, replacement names introduced up to beginning of 1988, as well as some corrections and those omitted from the previous parts.

The taxonomic categories are classified (especially families) as before. Within each group the taxa are listed in alphabetic orders. The distribution of the new taxa are not given for avoidance of duplication. They are indicated with an asterisk. Any one who likes to get such information, can get it from the reference concerned. Also, the new distributional localities of the known taxa are not given here for the same reason. However, the new records for the Turkish fauna, are indicated with double asterisks. If they are found by us, they are indicated only their distributional localities in the same way as before. If the new records made by other authors, their distributional localities are not given, but their references are indicated.

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We are aware the difficulties about preparing such faunal list, especially the country like Turkey which needs still more exploration. As a matter of fact, to work in the last decade to prepare this list proved it. If any one likes to make comparison between Nast's catalogue (1972) including its addenda and corrigenda (1979) and our list (including this one) can notice about the great differences.

On the other hand, we also believed that one should start to prepare such list, at least to give basic informations for others who like to prepare a true Turkish Auchenorrhyncha Catalogue. This was the our main aim that we attempted this list.

Lastly we are indepted greatly to any one who supported to know about the Turkish Auchenorrhyncha fauna and we are sure without them, this list would not be realized.

Family: Cixiidae Spinola, 1839.

** Bitropis fasciata (Horvath, 1894) = Hemitropis fasciata Horvath, 1894. In: Dlabola 1985.

** Cixius simplex (Herrich-Schäffer, 1835).

Distribution: Kars.

Eumecurus gyarus (Dlabola, 1957) = Oliarus gyarus Dlabola, 1957. In: Dlabola, 1985.

** Hemitropis seticlosa (Lethierry, 1874).

Distribution: Erzincan (İliç), K. Maraş, Nevşehir (Avanos).

* Hyalesthes askalensis Hoch, 1985 = Hyalesthes erzurumicus Dlabola, 1986. SYN. N.

* Hyalesthes aylanus Hoch und Remane, 1985.

* Hyalesthes ponticorum Hoch und Remane, 1985.

* Hyalesthes thracicus Hoch und Remane, 1985.

* Hyalesthes veyseli Hoch und Remane, 1985.

* Hyalesthes yozgaticus Hoch und Remane, 1985.

Hyalesthes scotti Ferrari, 1882 was reported being in Turkey in our previous paper (Lodos and Kalkandelen, 1980 a). However, careful study on the genus of Hyalesthes Sign. by Hoch und Remane (l.c.) revealed that this species is a west palearctic element restricted to N-Africa (Tunisia, Algeria, Morocco), Portugal, Spain, France, Italy and Yugoslavia. Therefore at the moment H. scotti is not a member of the Turkish fauna and must be excluded.

Pentastira major (Kirschbaum, 1868) = Oliarus major Kirschbaum, 1868. In: Dlabola, 1988.

Pentastira rorida (Kirschbaum, 1876) = Oliarus rorida Kirschbaum, 1876. In: Dlabola, 1988.

Pentastira torossica (Dlabola, 1957) = Oliarus torossicus Dlabola, 1957. In: Dlabola, 1988.

Reptalus melanochaetus (Fieber, 1876) = Oliarus melanochaetus Fieber, 1876. In: Dlabola, 1988.

** Reptalus nigronervosus (Kusnezov, 1937) = Oliarus figuratus Dlabola, 1961. In: Dlabola, 1987.

* Reptalus oleae Dlabola, 1987.

Reptalus panzeri (Löw, 1883) = Oliarus panzeri Löw, 1883. In: Emelyanov, 1971; Dlabola, 1988.

Reptalus quinquecostatus (Dufour, 1833) = Oliarus quinquecostatus Dufour, 1833. In: Dlabola, 1988.

Setapius barajus (Dlabola, 1957) = Reptalus barajus Dlabola, 1957. In: Dlabola, 1988.

* Setapius brinki Dlabola, 1988.

Setapius cuspidatus (Fieber, 1876) = Reptalus cuspidatus Fieber, 1876. In: Dlabola, 1988.

Setapius lindbergi (Dlabola, 1957) = Oliarus lindbergi Dlabola, 1957. In: Dlabola, 1988.

* Setapius niyazicus (Dlabola, 1985) = Reptalus niyazicus Dlabola, 1985. In: Dlabola, 1988.

Family: Delphacidae Leach, 1815.

** Calligypona reyi (Fieber, 1866).

Distribution: K. Maraş (Elbistan).

* Chloriona ponticana Asche, 1982 a; Asche, 1982 b.

Chloriona unicolor (Herrich-Schäffer, 1835) = Chloriona canariensis Lindberg, 1954. In: Asche, 1982 a; Asche, 1982 b.

Conomelus anceps (Germar, 1821).

This species was listed from Turkey in our previous paper (Lodos und Kalkandelen, 1980 b). As one can easily understand that we listed this species according to several works and we did not have chance to see any specimen for examination. However Asche (1982 b) and also Hoch und Remane (1983) worked carefully on the genus Conomelus Fieber and they concluded that C. anceps does not occur in Turkey which we agree it also. Therefore, C. anceps is not a member of the Auchenorrhyncha fauna of Turkey and must be excluded.

Conomelus odryssius Dlabola, 1965 = Conomelus clavifer Remane und Asche, 1979. In: Asche, 1982 b; Hoch und Remane, 1983.

** Delphacodes nastasi Asche und Remane, 1983.

** Delphax inermis Ribaut, 1934. In: Asche, 1982 b.

** Dicranotropis beckeri Fieber, 1866. In: Dlabola und Jankovic, 1981; Asche, 1982 b.

** Dicranotropis hamata (Boheman, 1847). In: Dlabola, 1980; Asche, 1982 b.

** Ditropis pteridis (Spinola, 1839). In: Asche, 1982 b.

- * Eurybregma dlabolai Kalkandelen, 1980.
- ** Flastena fumipennis (Fieber, 1866). In: Asche, 1982 b.
- ** Horvathianella palliceus (Horvath, 1897). In: Asche, 1982 b.
- ** Jubsoda stigmatica (Melichar, 1897). In: Asche, 1982 b.
- ** Kelisia brucki Fieber, 1878. In: Asche, 1982 b.
- ** Kelisia monocerus Ribaut, 1934.

Distribution: Ankara (Eymir Gölü, Hasanoğlan).

- ** Kelisia yarkonensis Linnavuori, 1962. In: Asche, 1982 b.
- ** Leptodelphax cyclops Haupt, 1927. In: Asche, 1982 b.
- ** Matutinus putoni (A. Costa, 1988).

The following synonyms are established for this species by Asche, 1982 b: = Delphax nigrifrons Matsumura, 1910 = Calligypona typhae Lindberg, 1960.

Perkinsiella dorsata (Melichar, 1905).

The following synonyms are established for this species by Asche, 1982 b: = Perkinsiella insignis Distant, 1912; Araeopides picta Ribaut, 1948; Euidopsis truncata Kalkandelen, 1980 nec Ribaut, 1948.

- ** Pseudaraeopus lethierryi (Mulsant et Rey, 1879).

Distribution: Antalya (Central province); Asche, 1982 b.

- ** Ribautodelphax albostriatus (Fieber, 1866).

Distribution: Ankara (Çubuk, Eymir Gölü), Erzinçan.

- ** Ribautodelphax collinus (Boheman, 1847). In: Asche, 1982 b.
- ** Ribautodelphax pallens (Stal, 1854).

Distribution: Erzinçan (Bahçeliköy), Erzurum (Hasankale), Van (Kırkeçit, Gürpınar, Beyüzümü), Kars (Sarıkamış).

- ** Ribautodelphax pungens (Ribaut, 1953).

Distribution: Artvin (Borçka).

Sogotella vibix (Haupt, 1927).

This species was listed in our previous paper under the name of Toya suezensis (Matsumura, 1910) according to some workers including Nast, 1972. Dlabola, 1981 also showed vibix synonym of suezensis. However, the work thereafter (Nast, 1975; Asche und Remane, 1982) showed that both species belong to two different genera and the real member of the Turkish fauna is S. vibix, not T. suezensis.

- * Toya ibiturca Asche, 1980; Asche, 1982 b.
- ** Toya obtusangula (Linnavuori, 1957). In: Asche 1980, 1982 b.
- ** Tropidocephala andropogonis Hörvath, 1985. In: Dlabola, 1981.
- ** Unkanodes tanasiyevici (Dlabola, 1965). In: Asche, 1982 b.

Family: Meenoplidae Fieber, 1872.

- ** Nisia atronervosa (Lethierry, 1888). In: Dlabola, 1981.

Family: Derbidae Spinola, 1839.

- * Malenia kilisica Dlabola, 1986.
- ** Malenia mesasiatica Dubovsky, 1965.

Distribution: Kastamonu (Tosya)..

- ** Malenia turanica Anufriev, 1966.

Distribution: Ankara (Nallıhan), Antalya (Kaş, Saklıkent), Muğla (Köyceğiz).

Family: Achilidae Stal, 1866.

- * Eiptera mersinica Dlabola, 1987.

Family: Dictyopharidae Spinola, 1839.

- * Dictyophara nizipa Dlabola, 1986.
- * Ranissus anaticus Kartal, 1987.

Family: Tettigometridae Germar, 1821.

Tettigometra angulata Lindberg, 1948.

This species has been listed in our previous paper (Lodos and Kalkandelen, 1980 c), but no locality in Turkey was indicated. Now 2 specimens collected in Adana (Karaisali).

- * Tettigometra vanai Dlabola, 1981.

Family: Issidae Spinola, 1839.

- Acanosimus goricus (Dlabola, 1958) = Conosimus goricus Dlabola, 1983. In: Dlabola, 1983.
- * Anatolodus ignavus (Dlabola, 1981) = Hysteropterum ignavum Dlabola, 1981. In: Dlabola, 1982.
- * Anatolodus musivus Dlabola, 1982.
- Bubastia ephialtes (Linnavuori, 1971) = Hysteropterum ephialtes Linnavuori, 1971. In: Dlabola, 1980.
- * Bubastia jatagana Dlabola, 1982.
- Dalmatium maculipes (Melichar, 1906) = Hysteropterum maculipes Melichar, 1906. In: Dlabola, 1980.

- ** Dalmatium pictifrons (Melichar, 1906) = Hysteropterum pictifrons Melichar, 1906. In: Dlabola, 1982.
- * Falcidiopsis meridionalis Dlabola, 1983.
- ** Issus lauri Ahrens, 1814.
- Distribution: Hatay (Samandağ, Yayladağ).
- * Kervillea gaziantepica Dlabola, 1984.
- Kervillea parvissima (Dlabola, 1957) = Hysteropterum parvissimum Dlabola, 1957. In: Dlabola, 1980.
- Kervillea placophora (Horvath, 1905) = Hysteropterum placophorum Horvath, 1905. In: Dlabola, 1980.
- * Kovacsiana antalyica Dlabola, 1986.
- * Kovacsiana forficeps Dlabola, 1986.
- ** Kovacsiana quercus (Lindberg, 1948) = Hysteropterum quercus Lindberg, 1948.
- Distribution: Antalya.
- ** Kovacsiana retamae (Linnavuori, 1962) = Hysteropterum retamae Linnavuori, 1962.
- Distribution: Antalya (Olympos, Saklıkent).
- * Latematium cingulatum Dlabola, 1983.
- * Latematium lunatum Dlabola, ? .
- ** Libanissum talhouki (Dlabola, 1974) = Hysteropterum syriacum (Linnavuori, 1962, nec Melichar, 1906. In: Dlabola, 1980.
- Distribution: İçel.
- * Mycterodus anatolicus Dlabola, 1981.
- * Mycterodus bicornutus Dlabola, 1986.
- * Mycterodus capitatus Dlabola, 1982.
- * Mycterodus drosopoulosi Dlabola, 1982.
- * Mycterodus hakkaricus Dlabola, 1980.
- * Mycterodus lodosicus Dlabola, 1980.
- * Mycterodus muticus Dlabola, 1986.
- * Mycterodus pozanticus Kartal, 1983.
- * Mycterodus spinicordatus Dlabola, 1982.
- * Mycterodus tekneticus Dlabola, 1982.
- * Mycterodus torosicus Dlabola, 1980.
- * Mycterodus ulukislanus Dlabola, 1983.
- ** Ommatidiotus iranicus Horvath, 1905. In: Dlabola, 1981.
- ** Ommatidiotus longiceps Puton, 1896.

Distribution: Diyarbakır (Çınar), Mardin (Silopi), Urfa (Siverek).

- * Quadrastylum aylae Dlabola, 1987.
- * Quadrastylum basiniger Dlabola, 1987.
- * Quadrastylum beysehiricum Dlabola, 1983.
- ** Quadrastylum coronatum (Loginenkova, 1977)= Hysterella coronatum
Loginenkova, 1977. In: Dlabola, 1984.
- * Quadrastylum insulanum Dlabola, 1983.
- * Quadrastylum jahyai Dlabola, 1983.
- * Quadrastylum kulaicum Dlabola, 1983.
- * Quadrastylum lodosicum Dlabola, 1983.
- * Quadrastylum tekirdagicum Dlabola, 1982.
- * Rhissolepus aspinosus Dlabola, 1982.
- * Scorpulella amica Dlabola, 1984.
Scorpulella assimile (Horvath, 1905)= Hysteropterum assimile Horvath, 1905. In: Dlabola, 1984.
- * Scorpulella boulandi Dlabola, 1984.
- * Scorpulella corumica Dlabola, 1982.
- * Scorpulella pontica Dlabola, 1982.
Tshurtshurnella acutus (Linnavuori, 1965)= Megissus acutus Linnavuori, 1965. In: Dlabola, 1983.
- * Tshurtshurnella adana Dlabola, 1986.
- * Tshurtshurnella alanyana Dlabola, 1982.
- * Tshurtshurnella aschei Kartal, 1985.
- * Tshurtshurnella bicornuta Dlabola, 1983.
- * Tshurtshurnella bozarmutica Kartal, 1985.
Tshurtshurnella campestre (Lindberg, 1948)= Hysteropterum campestre Lindberg, 1948. In: Dlabola, 1980, 1982.
- * Tshurtshurnella cappodocica (Dlabola, 1981)= Tshurtshurnella acigoe-lica Dlabola, 1983. In: Kartal, 1985.
- * Tshurtshurnella diyarbakira Dlabola, 1980.
- * Tshurtshurnella edremitica Dlabola, 1982.
- * Tshurtshurnella elmalica Kartal, 1985.
- * Tshurtshurnella extrema Dlabola, 1980.
- * Tshurtshurnella kalkandelenica Dlabola, 1982.
- * Tshurtshurnella linnavuorii Dlabola, 1982.
Tshurtshurnella longispinosa (Linnavuori, 1962)= Hysteropterum campestre longispinosa Linnavuori, 1962. In: Kartal, 1985.
- ** Tshurtshurnella peleponica Dlabola, 1979.

Distribution: Ankara (Kızılcahamam).

- * Tshurtshurnella ramosa Dlabola, 1982.
- * Tshurtshurnella rhombica Dlabola, 1982.
- * Tshurtshurnella serapae Kartal, 1985.
- * Tshurtshurnella ventricornis Dlabola, 1986.
- * Tshurtshurnella verbasci Dlabola, 1983.
- * Tshurtshurnella zebrina Dlabola, 1985.
- * Webbianus ochreicolor Dlabola, 1983.

Family: Ricanidae Amyot et Serville, 1843.

- * Ricania aylae Dlabola, 1983.

Family: Cicadidae Leach, 1815.

- ** Cicadatra hagenica Dlabola, 1987= Cicada virens Hagen, 1856. In: Dlabola, 1987.

- ** Cicadetta flaveola Brullé, 1832.

Distribution: Kayseri (İncesu), Konya (Hadim).

- * Lyristes gemellus Boulard, 1988.

- * Lyristes isodol Boulard, 1988.

These both species of Lyristes are endemic. According personal letter from Dr. Boulard, the descriptions of these species are going to be publish in the first issue of "Nouvelle Revue d'Entomologie", in 1988.

- * Tibicina nigronevosa Fieber, 1859. In: Dlabola, 1981.

Family: Cercopidae Leach, 1815.

- ** Cercopis septemmaculata (Melichar, 1903).

Distribution: Adana (Ceyhan), İzmir (Bozdağ), Kastamonu (İnebolu), Mardin (Ömerli), Siirt (Aydinlar).

- ** Poophilus nebulosus (Lethierry, 1876).

Distribution: Mardin (Cizre, Hasankeyf).

Family: Membracidae Rafinesque, 1815.

Stictocephala bisonia Kopp et Yonke, 1977= Cerasa (or Stictocephala) bubalus: auct., nec Fabricius, 1794. In: Nast, 1982.

Family: Cicadellidae Latreille, 1825.

- ** Adarrus multinotatus (Boheman, 1847). In: Nast, 1972; Günthart, 1987.

- ** Agallia consobrina Curtis, 1833.

Distribution: İzmir (Kozak).

- ** Agallia minuta Melichar, 1896.
Distribution: Gaziantep (Araban, Yayuzeli).
- * Anoplotettix lodosianus Dlabola, 1987.
- ** Anoplotettix novaki Wagner, 1959. In: Kartal, 1981.
- ** Aphrodes flavostriatus (Donavan; 1799).
Distribution: Eastern Anatolia.
- ** Aphrodes trifasciatus (Horvath, 1897).
Distribution: K. Maraş (Göksun).
- * Concavifer bolkarensis Kartal, 1981.
- ** Diplocolenus abdominalis (Fabricius, 1803). In: Günthart, 1987.
- ** Doratulina pallifrons (Horvath, 1897). In: Dlabola, 1981.
- ** Doratura salina Horvath, 1903.
Distribution: Ankara (Çubuk barajı, Lalahan), İzmir (Bozdağ), Siirt.
- ** Dryodurgades dlabolai Wagner, 1963.
Distribution: İçel (Silifke), İzmir (Ödemiş), Yozgat (Çekerek, Sarıkaya).
- ** Empoasca meridiana Zachvatkin, 1946. In: Dlabola, 1981.
- ** Eupteryx adspersa (Herrich-Schäffer, 1838).
Distribution: Thrace.
- ** Eupteryx falculata Ribaut, 1936.
Distribution: Bolu (Abant).
- ** Eurhadina ribauti Wagner, 1935.
Distribution: İzmir (Ödemiş, Tire). Also in Kartal, 1983.
- ** Eurhadina untica Dlabola, 1967.
Distribution: İzmir (Ödemiş).
- ** Hardya alpina Wagner, 1955. In: Nast, 1972; Günthart, 1987.
- ** Hauptidia rivularis (Linnavuori, 1962).
Distribution: Antalya (Kemer).
- ** Laburru impictifrons (Boheman, 1852).
Distribution: K. Maraş (Afşin).
- ** Macropsidius shalbergi (Flor, 1861).

Distribution: Kayseri (Hacılar).

** Oncopsis tristis (Zetterstedt, 1840).

Distribution: İçel (Silifke).

** Orosius albicinctus Distant, 1918. In: Nast, 1972; Dlabola, 1981.

** Osbornellus (Mavromoustacus) macchiae Lindberg subsp. consanguineus Dlabola, 1967. In: Kartal, 1981.

** Platymetopius complicatus Nast, 1972. In: Dlabola, 1981.

** Platymetopius obsoletus (Signoret, 1880).

Distribution: Antalya (Saklıkent).

** Selenocephalus planus (Turton, 1802). In: Dlabola, 1981.

** Speudotettix subfuscus (Fallen, 1806).

Distribution: Bolu (Yedigöller), Zonguldak (Ereğli). Also in Kartal, 1983.

** Stegelytra putoni Mulsant et Rey, 1875.

Distribution: K. Maraş (Göksun).

** Thamnotettix minoidis Dlabola, 1974.

Distribution: Aydın (Kuşadası), İzmir, Muğla (Yatağan).

* Zyginidia artvinicus Kalkandelen, 1985.

* Zyginidia bafrae Kalkandelen, 1985.

* Zyginidia karadenizicus Kalkandelen, 1985.

Conclusion

This list showed that Auchenorrhyncha fauna of Turkey is very rich. The great number of species (725) occur in Turkey and many new species are discovered nearly in all groups within the last few years, proves this opinion. It is sure that many new records, as well as the new species are awaiting for discover. This is in mind, if more careful studies can carry out, it is possible that the members of the Turkish Auchenorrhyncha fauna can be well over of 850 species.

The results of this study are summarized in table 1.

Özet

Türkiye Auchenorrhyncha türlerinin yayılışı ve önemlerine ait liste. XXVII. Ekler ve Düzeltmeler

Bu ek listeyle Türkiye Auchenorrhyncha faunasına 47 cinse bağlı 145 tür daha eklenmiş bulunmaktadır ki bunlardan çoğunu çeşitli yazarlar tarafından tanıtımı yapılan yeni türler oluşturmaktadır. Böylece bu çalışma sonucunda, Türkiye Auchenorrhyncha faunasının toplam olarak 273 cinse bağlı 725 türe sahip olduğu saptanmış bulunmaktadır.

Table 1. General aspect of Turkish Auchenorrhyncha fauna

Families	Known fauna according to our work (between 1980-1987)		Recent additions (shown in addenda and corrigenda)		Total numbers	
	Genera	Species	Genera	Species	Genera	Species
Cixiidae	10	27	3	13	13	40
Delphacidae	25	31	8	21	33	52
Issidae	17	44	9	64	26	108
Meenoplidae	1	1	1	1	2	2
Derbidae	1	2	-	3	1	5
Achilidae	2	3	1	1	3	4
Dictyopharidae	5	14	-	2	5	16
Tettigometridae	4	18	-	1	4	19
Flattidae	1	2	-	-	1	2
Ricanidae	1	1	1	1	2	2
Cicadidae	9	22	-	4	9	26
Cercopidae	9	20	1	2	10	22
Membracidae	4	4	-	-	4	4
Cicadellidae	137	391	25	32	162	423
Total amount	226	580	49	145	275	725

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