



**A CHECKLIST OF TURKISH NEUROPTERAN SPECIES (INSECTA:
NEUROPTERA) WITH REMARKS ON PROVINCIAL DISTRIBUTION
IN TURKEY**

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Abstract - A checklist of Turkish neuropteran species is given with annotations on provincial distribution in Turkey. The list is prepared on the basis of records in relevant articles. The order Neuroptera is represented by 203 species and 4 subspecies in Turkey.

KEY WORDS: Checklist, Neuroptera, Turkey

Izveček – SEZNAM TURŠKIH MREŽEKRILCEV (INSECTA: NEUROPTERA)
Z OPOMBAMI O POKRAJINSKI RAZŠIRJENOSTI V TURČIJI

Seznam turških vrst mrežekrilcev je podan z opombami o razširjenosti po pokrajinah v Turčiji. Seznam je pripravljen na osnovi podatkov v ustreznih člankih. Red Neuroptera je v Turčiji zastopan z 203 vrstami in 4 podvrstami.

KLJUČNE BESEDE: Seznam vrst, Neuroptera, Turčija

Introduction

Lacewings belong to one of the most important groups of insects because of their significant role in integrated pest management as predators of aphids, mites, and several other agricultural pests (Ghahari et al., 2010). However, their distribution and biology are still poorly known.

Several scientists studied the Turkish neuropteran fauna during the 19th and early 20th centuries. As a result of their expeditions, large numbers of Turkish specimens are preserved in several of larger European collections. Turkish researchers started to study neuropteran fauna after 1980s, and began to make important contributions to

the knowledge of this fauna (Aspöck et al, 1965a; 1965b; 1967; 1969; 1978; Hölzel, 1967a; 1967b; 1972a; 1972b; 1978; Şengonca, 1979; 1980a; 1980b; 1981a; 1981b; Canbulat & Kıyak, 2002a; 2002b; 2003a; 2003b; 2005a; 2005b; Canbulat, 2007a; 2007b; 2007c; Dobosz, 2007a; 2007b; Canbulat & Oğuz, 2013a; 2013b; Koçak & Kemal, 2008a; 2008b; Kovancı & Kovancı, 2007).

The last major revisional work on the neuropteran fauna of Turkey (Canbulat, 2007b) contains 193 species and 6 subspecies. Since then, S. Canbulat, A. Satar and A. Koçak have contributed several new records to the Turkish fauna. The continuation of current study will result in further increases in the number of known species and in a deeper understanding of their habitats and distributions in the future.

203 species and 4 subspecies in 65 genera and 11 families are listed for Turkey in the present study. The numbers by families are as follows: Ascalaphidae 14, Berothidae 2, Chrysopidae 52, Coniopterygidae 27, Dilaridae 2, Hemerobiidae 31, Mantispidae 4, Myrmeleontidae 56, Nemopteridae 13, Osmylidae 4, and Sisyridae 1.

List of species

Order: Neuroptera

Family: Ascalaphidae Lefébvre, 1842

1. *Bubopsis andromache* U. Aspöck, H. Aspöck & H. Hölzel, [1979]

Antalya, Bursa and Mersin (Aspöck et al., 1978), Çanakkale (Letardi, 1991), Eskişehir, Hatay, Burdur (Kačirek, 1998), İzmir (Popov, 2004), Adana (Arı & Kıyak, 2000; Popov, 2004), Isparta and Muğla (Canbulat & Kıyak, 2005b).

2. *Bubopsis hamatus* (Klug, 1834)

Adana, İzmir, Mersin, and Şanlıurfa (Şengonca, 1979), Çanakkale (Canbulat & Kıyak, 2002a), Diyarbakır, Mardin and Siirt (Satar & Özbay, 2004), Van (Canbulat, 2007b).

3. *Bubopsis zarudnyi* Alexandrova – Martynova, 1926

Diyarbakır (Satar & Özbay, 2002).

4. *Deleproctophylla australis* (Fabricius, 1787)

Edirne (Popov, 1977).

5. *Deleproctophylla dusmeti* Navás, 1914

Iğdır and Kars (Arı et al., 2008), Denizli, Isparta, and Muğla (Canbulat & Kıyak, 2005b).

6. *Deleproctophylla variegata* (Klug, 1834)

Ardahan, Kars (Arı et al., 2008), Antalya, Burdur, Denizli, and Isparta (Canbulat & Kıyak, 2005b).

7. *Iranoidricerus iranensis* (Kimmins, 1938)

Van (Kemal & Koçak, 2006; Canbulat, 2007b).

8. *Libelloides jungei* Aistleitner, 1982

Antalya (Aistleitner, 1982; Canbulat, 2007b; Sziráki, 1998).

9. *Libelloides lacteus* (Brullé, 1832)

Ankara (Kıyak & Özdikmen, 1993), Nevşehir (Kačirek, 1998), Isparta, Muğla (Canbulat & Kıyak, 2005b), Antalya (Popov, 2004).

10. *Libelloides macaronius* (Scopoli, 1763)

Kayseri, Niğde (Kačirek, 1998), Çanakkale (Canbulat & Kıyak, 2002a), Antalya, Burdur, Isparta, (Canbulat & Kıyak, 2005b), and Ardahan (Ari et al., 2008).

11. *Libelloides syriacus* (McLachlan, 1871)

Hakkari (Şengonca, 1979), Hatay (Sziráki, 1988; Canbulat, 2007).

12. *Libelloides rhomboideus rhomboideus* (Schneider, 1845)

Ankara and Hatay (Kačirek, 1998), Çanakkale (Canbulat & Kıyak, 2002a), Antalya, Aydın, Burdur, Denizli, Isparta, and Muğla (Canbulat & Kıyak, 2005b).

13. *Libelloides ustulatus* (Eversmann, 1850)

Samsun, and Trabzon (Canbulat, 2007b)

14. *Ptyngidricerus albardanus albardanus* (McLachlan, 1891)

Mardin (McLachlan, 1891), Bitlis, Malatya, and Van (Canbulat, 2007b)

Family: Berothidae Handlirsch, 1908

15. *Isoscelipteron fulvum* Costa, 1863

Bursa (Brauer, 1864; Aspöck & Aspöck, 1980), Konya (Esben – Petersen, 1933), Kahramanmaraş (Şengonca, 1978), Antalya (Monserrat & Hölzel, 1987), Bursa, Elazığ, İzmir, Mersin (Aspöck, 1987), Burdur, and Denizli (Canbulat & Kıyak, 2005b).

16. *Nyrma kervillea* Navás, 1933

İzmir (Navás, 1933), Muş (Aspöck & Aspöck, 1979), and Şanlıurfa (Aspöck, 1989).

Family: Chrysopidae Schneider, 1851

17. *Brinckochrysa amseli* (Hölzel, 1967)

Adana (Şengonca, 1981a), Kahramanmaraş (Ari & Kıyak, 2000), Iğdır (Ari et al., 2007a).

18. *Brinckochrysa chlorosoma* (Navás, 1914)

Southeast Anatolia (Aspöck et al., 2001).

19. *Chrysopidia ciliata* (Wesmael, 1841)

Kahramanmaraş (Şengonca, 1981a), Iğdır (Ari et al., 2007a).

20. *Chrysopa abbreviata* Curtis, 1834

Muğla (Schneider, 1845), Kars (Ari et al., 2007a).

21. *Chrysopa astarte* Hölzel, 1967

Anadolu (Şengonca, 1981a), Kars (Arı et al., 2007a)

22. *Chrysopa curdica* Hölzel, 1967

Van (Hölzel, 1967b; Şengonca, 1981a), Kars (Arı et al., 2007a)

23. *Chrysopa dorsalis* Burmeister, 1839

Middle Anatolia (Aspöck & Aspöck, 1969), Mersin (Hölzel, 1967a; Şengonca, 1981a), Ankara (Kıyak & Özdikmen, 1993), Antalya, Burdur, Denizli, Muğla (Canbulat & Kıyak, 2005), Ardahan, Kars (Arı et al., 2007a), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b)

24. *Chrysopa dubitans* McLachlan, 1887

Mersin (Hölzel, 1965; 1967), Adana (Popov, 1977), Antalya, Denizli, Hatay, İzmir, Mardin, Siirt (Şengonca, 1980a, 1981a), Çanakkale (Canbulat & Kıyak, 2000), Kahramanmaraş (Bahadıroğlu & Daymaz, 2001), Mardin (Satar & Özbay, 2004; Özgen et al., 2012), Ardahan, and Kars (Arı et al., 2007a).

25. *Chrysopa formosa* Brauer, 1851

Kayseri (Hölzel, 1967; Canbulat & Kıyak, 2002b), Middle and South Anatolia (Aspöck & Aspöck, 1969), Amasya, Ankara, Isparta, İstanbul, İzmir, Kayseri (Şengonca, 1981a), Adana (Arı & Kıyak, 2000), Kahramanmaraş (Bahadıroğlu & Daymaz, 2001), Edirne (Onar & Aktaç, 2002), Kırşehir (Canbulat & Özsaraç, 2004), Antalya, Burdur, Denizli, Muğla (Canbulat & Kıyak, 2005b), Ardahan, Kars (Arı et al., 2007a), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b)

26. *Chrysopa fuscostigma* Esben – Petersen, 1933

Anatolia (Aspöck & Aspöck, 1996; Aspöck et al., 2001).

27. *Chrysopa hungarica* Klapálek, 1899

Middle and South Anatolia (Aspöck & Aspöck, 1969), Yozgat (Aspöck et al., 1980), Tokat, Konya (Hölzel, 1967a), Afyon, Ankara, Bursa, Denizli, Mersin (Şengonca, 1981a), Kahramanmaraş (Bahadıroğlu & Daymaz, 2001), Kırşehir (Canbulat & Özsaraç, 2004), Isparta (Canbulat & Kıyak, 2005b), and Bursa (Kovancı & Kovancı, 2007).

28. *Chrysopa nigrescens* Hölzel & Ohm, 1986

Mersin (Hölzel & Ohm, 1986), Antalya (Canbulat & Kıyak, 2005b).

29. *Chrysopa nigricostata* Brauer, 1851

East Anatolia (Aspöck & Aspöck, 1969; Şengonca, 1981a), Edirne (Onar & Aktaç, 2002), Isparta (Canbulat & Kıyak, 2005b), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

30. *Chrysopa pallens* (Rambur, 1838)

Nevşehir (Tuatay et al., 1972), Ankara (Popov, 1977), İazmir (Şengonca, 1979), Adana, Ankara, İstanbul, Kahramanmaraş, Mersin (Şengonca, 1981a), Edirne (Onar & Aktaç, 2002), Burdur, Denizli, Isparta, Muğla, (Canbulat & Kıyak, 2005b), Ardahan, Kars (Arı et al., 2007a), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

31. *Chrysopa perla* (Linnaeus, 1758)

Kayseri (Hölzel, 1967a), Middle Anatolia (Aspöck & Aspöck, 1969), Ankara (Şengonca, 1981a), dirne (Onar & Aktaç, 2002), Ardahan (Arı et al., 2007a), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), and Çorum Canbulat & Oğuz, 2013b).

32. *Chrysopa phyllochroma* Wesmael, 1841

Konya (Esben – Petersen, 1933).

33. *Chrysopa viridana* Schneider, 1845

Kahramanmaraş (Hölzel, 1967a; Bahadıroğlu & Daymaz, 2001), East Anatolia (Aspöck & Aspöck, 1969), Antalya (Gepp, 1974), Ankara, Denizli, Mersin (Şengonca, 1981a), Edirne (Onar & Aktaç, 2002), Aydın, Burdur, Denizli, Isparta, Muğla (Canbulat & Kıyak, 2005b), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

34. *Chrysopa walkeri* McLachlan, 1893

East Anatolia (Şengonca, 1981a), Antalya (Canbulat & Kıyak, 2005b), and Ardahan (Arı et al., 007a).

35. *Chrysopa wagneri* Esben – Petersen, 1932

Konya (Esben – Petersen, 1933).

36. *Chrysoperla carnea* (Stephens, 1836)

Ankara (Navás, 1926), Konya (Esben – Petersen, 1933), Nevşehir, Niğde (Tuatay et al., 1972), Antalya, Van (Gepp, 1974), Adana (Popov, 1977; Arı & Kıyak, 2000), Adıyaman, Ağrı, Amasya, Artvin, Aydın, Bitlis, Burdur, Çanakkale, Diyarbakır, Erzurum, Gaziantep, Hakkari, İstanbul, İzmir, Kahramanmaraş, Malatya, Mardin, Mersin, Samsun, Siirt, Şanlıurfa, Şırnak, Tokat, Trabzon, Van (Şengonca, 1980; Canbulat & Kıyak, 2005b), Konya (Monserrat & Hölzel, 1987), Ankara (Kıyak & Özdikmen, 1993), Çanakkale (Canbulat & Kıyak, 2000), Kayseri (Canbulat, 2002) Edirne (Onar & Aktaç, 2002), Batman, Diyarbakır, Mardin, (Satar & Özbay, 2004), Kırşehir (Canbulat & Özsaraç, 2004), Elazığ (Özbay et al., 2005), Ardahan, Iğdır, Kars (Arı et al., 2007a), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

37. *Chrysoperla lucasina* (Lacroix, 1912)

Konya (Esben – Petersen, 1933).

38. *Chrysoperla mutata* (McLachlan, 1898)

Anatolia (Aspöck et al., 1980, 2001; Canard & Laudeho, 1977).

39. *Chrysoperla rotundata* (Navás, 1929)

İzmir (Şengonca, 1981a).

40. *Chrysotropia ciliata* (Navás, 1911)

North Anatolia (Aspöck et al., 2001) and Tokat (Canbulat & Oğuz, 2013a).

41. *Cunctochrysa albolineata* (Killington, 1935)

Elaziğ (Hölzel, 1967a), Middle and South Anatolia (Aspök & Aspöck, 1969), Ankara (Şengonca, 1981), Kahramanmaraş (Bahadıroğlu & Daymaz, 2001), Bursa (Kovancı & Kovancı, 2007), and Ardahan (Arı et al., 2007a).

42. *Cunctochrysa baetica* (Hölzel, 1972)

Tokat, Ankara (Hölzel, 1972; Şengonca, 1981a), Isparta (Canbulat & Kıyak, 2005b), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

43. *Hypochrysa elegans* (Burmeister, 1839)

Middle and South Anatolia (Aspöck & Aspöck 1969a; Şengonca, 1981a), Bursa (Kovancı & Kovancı, 2007), Antalya, and Denizli (Canbulat & Kıyak, 2005b).

44. *Italochrysa italica* (Rossi, 1790)

Konya (Hölzel, 1967a), East Anatolia (Aspöck & Aspöck, 1969), İzmir, Mersin (Şengonca, 1981a), Ankara (Kıyak & Özdikmen, 1993), Çanakkale (Canbulat & Kıyak, 2000); Kahramanmaraş (Arı & Kıyak, 2000), Adıyaman (Satar & Özbay, 2004), Isparta, Aydın, Muğla (Canbulat & Kıyak, 2005b), Iğdır, (Arı et al., 2007a), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

45. *Italochrysa vartianorum* Hölzel, 1967

Kahramanmaraş (Hölzel, 1967) and Mersin (Şengonca, 1980).

46. *Nineta carinthiaca* (Hölzel, 1965)

Northeast Anatolia (Şengonca, 1980), Mersin (Şengonca 1981a), Ankara (Kıyak & Özdikmen, 1993), Bursa (Kovancı & Kovancı, 2007), and Arhadan (Arı et al., 2007a).

47. *Nineta flava* (Scopoli, 1763)

East Anatolia (Aspöck & Aspöck, 1969), Van (Gepp, 1974; Şengonca, 1980a), Adana (Şengonca, 1981a), Bursa (Kovancı & Kovancı, 2007), and Çorum (Canbulat & Oğuz, 2013b).

48. *Nineta gevnensis* Canbulat & Kıyak, 2003

Konya (Canbulat & Kıyak, 2003b).

49. *Nineta pallida* (Schneider, 1846)

Isparta (Canbulat & Kıyak, 2002b; 2005b), Bursa (Kovancı & Kovancı, 2007), and Arhadan (Arı et al., 2007a).

50. *Nineta principiae* Monserrat, 1980

Samsun (Aspöck et al., 1980), Isparta (Canbulat & Kıyak, 2005b), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

51. *Nothochrysa fulviceps* (Stephens, 1836)

Isparta (Canbulat & Kıyak, 2004) and Bursa (Kovancı & Kovancı, 2007).

52. *Nothochrysa turcica* (Kovancı & Canbulat, 2007)

Bursa (Kovancı & Canbulat, 2007a).

53. *Peyrimhoffina gracilis* (Schneider, 1851)

Artvin, Bursa (Aspöck et al. 1980), Antalya, Isparta (Canbulat & Kıyak, 2005b), Bursa (Kovancı & Kovancı, 2007), Arhadan (Arı et al., 2007), and Tokat (Canbulat & Oğuz, 2013a).

54. *Pseudomallada clathratus* (Schneider, 1845)

Elazığ (Hölzel, 1967a), İzmir, Mersin (Şengonca, 1981a), Edirne (Onar & Aktaç, 2002), Antalya, Burdur, Bursa, Denizli, Isparta, Muğla (Canbulat & Kıyak, 2005b), Bursa (Kovancı & Kovancı, 2007), and Çorum (Canbulat & Oğuz, 2013b).

55. *Pseudomallada flavifrons* (Brauer, 1850)

Middle Anatolia (Aspöck & Aspöck, 1969), Ankara, Mardin, Ankara (Şengonca, 1981a), Çanakkale (Canbulat & Kıyak, 2000), Adana (Arı & Kıyak, 2000), Kahramanmaraş (Bahadıroğlu & Daymaz, 2001), Kayseri (Canbulat & Kıyak, 2002b), Edirne (Onar & Aktaç, 2002), Adıyaman, Diyarbakır, Mardin, Siirt, Şırnak (Satar & Özbay, 2004), Elazığ (Özbay et al., 2005), Antalya, Aydın, Burdur, Denizli, Isparta, Muğla (Canbulat & Kıyak, 2005b), Bursa (Kovancı & Kovancı, 2007), Mardin (Özgen et al., 2012), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

56. *Pseudomallada genei* (Rambur, 1842)

Çanakkale, İzmir, Mersin (Şengonca, 1980, 1981a), Antalya, and Denizli (Canbulat & Kıyak, 2005).

57. *Pseudomallada hadimensis* Canbulat & Kıyak, 2005

Konya (Canbulat & Kıyak, 2005a).

58. *Pseudomallada inornatus* (Navás, 1901)

Edirne (Onar & Aktaç, 2002) and Bursa (Kovancı & Kovancı, 2007).

59. *Pseudomallada prasinus* (Burmeister, 1839)

Edirne (Gepp 1974; Onar & Aktaç, 2002), Ankara (Popov, 1977), Edirne, Hakkari, Hatay, Kahramanmaraş, Mardin, Samsun, Adana (Şengonca, 1980a, 1981a), Aydın, Konya (Monserrat & Hölzel 1987), Adana (Arı & Kıyak, 2000), Çanakkale (Canbulat & Kıyak, 2000), Kahramanmaraş (Bahadıroğlu & Daymaz, 2001), Kayseri (Canbulat & Kıyak, 2002b); Kırşehir (Canbulat & Özseraça, 2004); Adıyaman, Şanlıurfa, Batman, Diyarbakır, Mardin, Siirt (Satar & Özbay, 2004), Elazığ (Özbay et al., 2005), Antalya, Burdur, Isparta, Denizli, Aydın, Muğla (Canbulat & Kıyak, 2005b), Kars, Arhadan, Iğdır (Arı et al., 2007a), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

60. *Pseudomallada subflavifrons* (Tjeder, 1949)

Gülden in Anatolia (Hölzel, 1967a), Edirne (Gepp, 1974), Adana, Antakya, Hakkari, Kahramanmaraş, Mardin, Mersin, Samsun (Şengonca, 1981a), Kars, and Arhadan (Arı et al., 2007a).

61. *Pseudomallada sybariticus* (McLachlan, 1875)

Van (Gepp 1974; Şengonca, 1981a).

62. *Pseudomallada venosus* (Rambur, 1838)

Mardin (Hölzel, 1967a; Şengonca, 1981a), Diyarbakır (Satar & Özbay, 2004), and Iğdır (Arı et al., 2007).

63. *Pseudomallada ventralis* (Curtis, 1834)

Arhadan (Arı et al., 2007a)

64. *Pseudomallada zelleri* (Schneider, 1851)

Mersin (Hölzel, 1967a), Aydın, Ankara, Mersin, Isparta (Şengonca, 1981a), Çanakkale (Canbulat & Kıyak, 2000), Adana (Arı & Kıyak, 2000), Kayseri (Canbulat & Kıyak, 2002b), Edirne (Onar & Aktaç, 2002), Antalya, Burdur, Isparta, Denizli, Muğla (Canbulat & Kıyak, 2005b), Kars, Arhadan (Arı et al., 2007a), Bursa (Kovancı & Kovancı, 2007), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

65. *Rexa raddai* (Hölzel, 1966)

Bilecik (Hölzel, 1966; Şengonca, 1981a), Ankara (Kıyak & Özdikmen, 1993), Adana (Arı & Kıyak, 2000), Bursa (Kovancı & Kovancı, 2007), and Muğla (Canbulat & Kıyak, 2005b).

66. *Suarius caviceps* (McLachlan, 1898)

Konya (Esben-Petersen, 1933).

67. *Suarius nanus* (McLachlan, 1893)

Adana (McLachlan, 1893), Konya (Hölzel, 1965), Mardin (Hölzel 1967a), Mersin, Mardin, Konya, Ankara, Denizli, Malatya, Elazığ, Isparta, İzmir (Hölzel 1978; Şen-

gonca, 1981a), Antalya, Burdur, Isparta, Denizli, Aydın, Muğla (Canbulat & Kıyak, 2005b), and Kars (Ari et al., 2007).

68. *Suarius vanensis* (Hölzel, 1967)

Van (Hölzel, 1967b; Şengonca, 1981a).

69. *Suarius vartianae* (Hölzel, 1967)

East Anatolia (Aspöck et al., 2001).

Family: Coniopterygidae Burmeister, 1839

70. *Aleuropteryx loewi* Klapálek, 1894

Anatolia (Aspöck et al., 1980, 2001) and Burdur (Canbulat & Kıyak, 2005b).

71. *Aleuropteryx umbrata* Zelený, 1964

Mersin (Aspöck & Aspöck, 1965a; 1965b; Meinander, 1972), Antalya (Monserrat & Hölzel, 1987), Isparta, Denizli, Aydın (Canbulat & Kıyak, 2005b), and Çorum (Canbulat & Oğuz, 2013b).

72. *Coniopteryx (Coniopteryx) borealis* Tjeder, 1931

Sinop (Canbulat, 2013a).

73. *Coniopteryx (Coniopteryx) pygmaea* Enderlein, 1906

Anatolia (Aspöck et al., 2001), Mersin (Meinander, 1972), Antalya (Monserrat & Hölzel, 1987), Isparta, Denizli, Aydın (Canbulat & Kıyak, 2005b), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

74. *Coniopteryx (Coniopteryx) tineiformis* Curtis, [1834]

North Anatolia (Aspöck, 1969a).

75. *Coniopteryx (Holoconiopteryx) drammonti* Rousset, 1964

Anatolia (Aspöck et al., 1980, 2001; Popov, 1986b), and Tokat (Canbulat & Oğuz, 2013a).

76. *Coniopteryx (Holoconiopteryx) haematica* McLachlan, 1868

North Anatolia (Aspöck et al., 1980; Aspöck & Hölzel, 1996; Popov, 1986b), and Amasya (Canbulat & Oğuz, 2013b).

77. *Coniopteryx (Metaconiopteryx) arcuata* Kis, 1965

East and Middle Black Sea region (Monserrat, 1979), Bolu, Ankara, Tokat (Aspöck & Aspöck, 1969a), and Tokat (Canbulat & Oğuz, 2013a).

78. *Coniopteryx (Metaconiopteryx) esbenpeterseni* Tjeder, 1930

Middle and Northeast Anatolia (Aspöck & Aspöck, 1969a), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

- 79. *Coniopteryx (Metaconiopteryx) lentiae* H. Aspöck & U. Aspöck, 1964**
South Anatolia (Aspöck & Aspöck, 1969a), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).
- 80. *Coniopteryx (Metaconiopteryx) tjederi* Kimmins, 1934**
Mersin (Aspöck & Aspöck, 1965a, 1965b), South Anatolia (Aspöck & Aspöck, 1969a).
- 81. *Coniopteryx (Xeroconiopteryx) atlasensis* Meinander, 1963**
Mersin and Van (Gepp, 1974).
- 82. *Coniopteryx (Coniopteryx) loipetsederi* H. Aspöck, 1963**
Düzce (Canbulat, 2013a).
- 83. *Conventzia pineticola* Enderlein, 1905**
Black Sea region (Aspöck et al., 1980), Isparta, Denizli (Canbulat & Kıyak, 2005b), and Tokat (Canbulat & Oğuz, 2013a).
- 84. *Conventzia psociformis* (Curtis, [1834])**
Middle Anatolia (Aspöck & Aspöck, 1969a; Aspöck et al., 1980), and Tokat (Canbulat & Oğuz, 2013a).
- 85. *Helicoconis aptera* Messner, 1965**
Kayseri (Rausch et al., 1978).
- 86. *Helicoconis (Fontenelle) panticosa* Ohm, 1965**
Artvin (Aspöck et al., 1980).
- 87. *Helicoconis (Helicoconis) hirtinervis* Tjeder, 1960**
Middle Anatolia (Aspöck et al., 1980).
- 88. *Helicoconis (Helicoconis) sengonca* Rausch, H. Aspöck & U. Aspöck, 1978**
Burdur and Kütahya (Rausch et al., 1978).
- 89. *Helicoconis (Ohmopteryx) pseudolutea* Ohm, 1965**
Middle Anatolia (Aspöck & Aspöck, 1969a), Antalya, İzmir (Monserrat & Hölzel, 1987), Aydın, Isparta, Denizli (Canbulat & Kıyak, 2005b), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).
- 90. *Hemisemidalis pallida* (Withycombe, [1924])**
Antalya, Aydın (Monserrat & Hölzel, 1987).
- 91. *Nimboa asadeva* Rausch & H. Aspöck, 1978**
Anatolia (Meinander, 1990; Aspöck & Hölzel, 1996; Aspöck et al., 2001).

92. *Nimboa kasyi* Rausch & H. Aspöck, 1978

Sivas (Rausch & Aspöck, 1978).

93. *Nimboa ressl*i Rausch & H. Aspöck, 1978

Mersin (Aspöck & Aspöck, 1965a, Aspöck & Aspöck, 1965b) and Denizli (Canbulat & Kıyak, 2005b).

94. *Parasemidalis fuscipennis* (Reuter, 1894)

Kayseri (Canbulat, 2007a).

95. *Semidalis alyrodiformis* (Stephens, 1836)

Mersin (Aspöck & Aspöck, 1965a), Middle Anatolia (Aspöck & Aspöck, 1969a), İzmir (Tuatay et al., 1972), Mersin, Antalya (Gepp, 1974), İstanbul, Konya (Monserrat & Hölzel, 1987), Kırşehir (Canbulat & Öz Saraç, 2004), Antalya, Aydın, Burdur, Denizli, Muğla (Canbulat & Kıyak, 2005b), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

96. *Vartiana necopinata* H. Aspöck & U. Aspöck, 1965

Anatolia (Aspöck et al., 2001).

Family: Dilaridae Newman, 1853

97. *Dilar lineolatus* Navás, [1909]

Bursa (Navás, 1909).

98. *Dilar turcicus* Hagen, 1858

Ankara (Kıyak & Özdikmen, 1993) and Antalya (Canbulat & Kıyak, 2005b).

Family: Hemerobiidae Latreille, 1802

99. *Hemerobius (Hemerobius) contumax* Tjeder, 1932

North and South Anatolia (Aspöck et al., 1980).

100. *Hemerobius (Hemerobius) gilvus* Stein, 1863

Ankara, Gaziantep, Konya, Samsun, Tokat (Aspöck & Aspöck, 1969a; Canbulat & Oğuz, 2013a), and Isparta (Canbulat & Kıyak, 2005b).

101. *Hemerobius (Hemerobius) handschini* Linnaeus, 1758

Middle and South Anatolia (Aspöck et al., 1980; Aspöck & Aspöck, 1969a), Antalya, Denizli, Isparta (Canbulat & Kıyak, 2005b), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

102. *Hemerobius (Hemerobius) humulinus* Linnaeus, 1758

North Anatolia (Aspöck et al., 1980).

103. *Hemerobius (Hemerobius) lutescens* Fabricius, 1793

Middle Anatolia (Aspöck & Aspöck, 1969a), Kayseri (Canbulat, 2002), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

104. *Hemerobius (Hemerobius) mican* Olivier, 1792

The Northeast Anatolia (Aspöck et al., 1980), Isparta (Canbulat & Kıyak, 2005b), Kars, Ardahan (Arı et al., 2008), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

105. *Hemerobius (Hemerobius) nitidulus* Fabricius, 1777

Middle Anatolia and West Black Sea region (Aspöck et al., (1980), Antalya, Aydın, Burdur, Denizli, Muğla (Canbulat & Kıyak, 2005b), Arhadan, Kars (Arı et al., 2008), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

106. *Hemerobius (Hemerobius) pini* Stephens, 1836

Northwest Anatolia (Aspöck et al., 1980).

107. *Hemerobius (Hemerobius) simulans* Walker, 1853

Anatolia (Aspöck et al., 2001).

108. *Hemerobius (Hemerobius) stigma* Stephens, 1836

North Anatolia (Aspöck et al., 2001), Arhadan (Arı et al., 2008), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

109. *Hemerobius (Hemerobius) zernyi* Esben – Petersen, 1935

Ankara, Osmaniye, Konya (Aspöck & Aspöck, 1966), Adıyaman (Şengonca, 1979), Ankara (Aspöck et al., 1980), Denizli, Isparta (Canbulat & Kıyak, 2005b), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

110. *Megalomus tineoides* Rambur, 1842

Middle and South Anatolia (Aspöck et al., 1980).

111. *Megalomus tortricoides* Rambur, 1842

Middle and North Anatolia (Aspöck & Aspöck, 1969a, Aspöck et al., 1980), Antalya, Burdur, Denizli, and Isparta, (Canbulat & Kıyak, 2005b).

112. *Micromus angulatus* (Stephens, 1836)

Isparta (Canbulat & Kıyak, 2004).

113. *Micromus lanosus* (Zelený, 1962)

Ardahan (Arı & Kıyak, 2003; Arı et al., 2008).

114. *Micromus variegates* (Fabricius, 1793)

Northeast Anatolia (Aspöck & Aspöck, 1969a; Aspöck et al., 1980).

115. *Psectra diptera* (Burmeister, 1839)

Ankara (Kıyak & Özdikmen, 1993).

116. *Sympherobius (Niremberge) fuscescens* (Wallengren, 1863)

Middle Anatolia (Aspöck & Aspöck, 1969a), Arhadan (Arı et al., 2008), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

117. *Sympherobius (Niremberge) pellucidus* (Walker, 1853)

Northeast Turkey (Aspöck et al., 1980).

118. *Sympherobius (Sympherobius) elegans* (Stephens, 1836)

Konya (Monserrat & Hölzel, 1987), Burdur (Canbulat & Kıyak, 2005b), and Tokat (Canbulat & Oğuz, 2013a).

119. *Sympherobius (Sympherobius) fallax* Navás, [1908]

Adana (Şengonca, 1979).

120. *Sympherobius (Sympherobius) pygmaeus* (Rambur, 1842)

Kahramanmaraş (Şengonca, 1979), Kırşehir (Canbulat & Öz Saraç, 2004), Elazığ (Özbay et al., 2005), Antalya, Burdur, Denizli, Isparta (Canbulat & Kıyak, 2005b), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

121. *Wesmaelius (Kimminsia) helveticus* (H. Aspöck & U. Aspöck, 1964)

East Black Sea region (Aspöck et al., 1980).

122. *Wesmaelius (Kimminsia) malladai* (Navás, 1925)

Northeast Turkey (Popov, 1986a).

123. *Wesmaelius (Kimminsia) mortoni mortoni* (McLachlan, 1899)

Northeast of Turkey (Aspöck et al., 1980; Popov, 1986a; Hölzel & Weiser, 1999).

124. *Wesmaelius (Kimminsia) navasi* (Andrén, 1911)

Konya (Esben-Petersen, 1933), Gaziantep (Şengonca, 1979), and Isparta (Canbulat & Kıyak, 2005b).

125. *Wesmaelius (Kimminsia) ravus* (Withycombe, 1923)

Middle Anatolia (Aspöck & Aspöck, 1969a), Arhadan (Arı et al., 2008), and Çorum (Canbulat & Oğuz, 2013b).

126. *Wesmaelius (Kimminsia) subnebulosus* (Stephens, 1836)

Middle Anatolia (Aspöck & Aspöck, 1969a), İzmir, Kahramanmaraş, Mersin (Şengonca, 1979), Bursa (Monserrat & Hölzel, 1987), Kırşehir (Canbulat & Öz Saraç, 2004), Elazığ (Özbay et al., 2005), Burdur, Isparta, Denizli (Canbulat & Kıyak, 2005b), Tokat (Canbulat & Oğuz, 2013a), and Amasya (Canbulat & Oğuz, 2013b).

127. *Wesmaelius (Kimminsia) vaillanti* (Navás, 1927)

Konya (Aspöck & Aspöck, 1966), Ankara (Aspöck et al., 1980).

128. *Wesmaelius (Wesmaelius) concinnus* (Stephens, 1836)

Northeast Turkey (Aspöck et al., 1980), Isparta (Canbulat & Kıyak, 2005b), Arhadan, and Kars (Arı et al., 2008).

129. *Wesmaelius (Wesmaelius) quadrifasciatus* (Reuter, 1894)

Anatolia (Aspöck et al., 2001) and Arhadan, (Arı et al., 2008).

Family: Mantispidae Leach in Brewster, 1815**130. *Mantispa aphavexelte* H. Aspöck & U. Aspöck, 1944**

Bitlis (Aspöck, 1996), Antalya (Canbulat & Kıyak, 2005b), Kars (Arı et al., 2008), Tokat (Canbulat & Oğuz, 2013a), Bilecik, Kırklareli, Konya, Mersin, and Tunceli (Dobosz, 2007a).

131. *Mantispa scabricollis* McLachlan, 1875

Middle Anatolia (Aspöck & Aspöck, 1969a), İzmir, Mersin (Şengonca, 1979; 1980b), Aydın (Monserrat & Hölzel, 1987), Adana (Arı & Kıyak, 2000), Elazığ, Mardin (Satar & Özbay, 2004), Antalya, Aydın, Isparta, Muğla (Canbulat & Kıyak, 2005b), Adıyaman, Elazığ, Konya, Malatya, Mardin, Mersin (Dobosz, 2007a), Arhadan, Kars (Arı et al., 2008), Arhadan (Arı et al., 2008), and Çorum (Canbulat & Oğuz, 2013b).

132. *Mantispa styriaca* (Poda, 1761)

Kütahya (Şengonca, 1979; 1980b), Isparta, Konya, (Şengonca 1980b), Kırşehir (Canbulat & Özsaraç, 2004), Elazığ (Özbay et al., 2005), Antalya (Canbulat & Kıyak, 2005b), Ankara, Nevşehir, Konya, Kütahya, Mersin, Tunceli (Dobosz, 2007a), Arhadan (Arı et al., 2008), and Tokat (Canbulat & Oğuz, 2013a).

133. *Sagittalata perla* (Pallas, 1772)

Kütahya (Şengonca, 1979, 1980b), Bingöl (Aspöck et al., 1980), Denizli, Isparta (Canbulat & Kıyak, 2005b), Ankara, Erzurum, Kayseri (Dobosz, 2007a), Arhadan, Kars (Arı et al., 2008), and Tokat (Canbulat & Oğuz, 2013a).

Family: Myrmeleontidae Latreille, 1802**134. *Acanhaclisis mesopotamica* Hölzel, 1972**

Siirt (Özgen et al., 2012).

135. *Acanhaclisis occitanica* (Viller, 1789)

Konya (Esben-Petersen, 1933; Hölzel, 1972a), Ankara, İzmir (Şengonca, 1979), Niğde (Kačirek, 1998), Adıyaman (Satar & Özbay, 2004), Isparta (Canbulat & Kıyak, 2005b), and Iğdır (Arı et al., 2007b).

136. *Creoleon lugdunensis* (Viller, 1789)

Nevşehir, Antalya (Gepp, 1974), Konya, Van (Hölzel, 1972a); Ankara, Adana, Edirne (Popov, 1977), and Çanakkale (Canbulat & Kıyak, 2002).

137. *Creoleon plumbeus* (Olivier, 1811)

Konya (Esben-Petersen, 1933), Adana, Hatay, Mersin, Osmaniye, Antalya, Şanlıurfa, İzmir (Şengonca, 1979), Ankara (Monserrat & Hölzel, 1987), Aydın (Kaçirek, 1998), Adana (Arı & Kıyak, 2000), Kayseri (Canbulat & Kıyak, 2002b), Çanakkale (Canbulat & Kıyak, 2002a), Adıyaman, Şanlıurfa, Batman, Diyarbakır, Mardin, Şırnak, Siirt (Satar & Özbay, 2004), Kırşehir (Canbulat & Özsaraç, 2004), Elazığ (Özbay et al., 2005), Antalya, Burdur, Isparta, Denizli, Aydın, Muğla (Canbulat & Kıyak, 2005b), Kars, Iğdır (Arı et al., 2007b), Tokat (Canbulat & Oğuz, 2013a), and Çorum (Canbulat & Oğuz, 2013b).

138. *Cueta beieri* (Hölzel, 1969)

İstanbul (Hölzel, 1969a), Adana (Popov, 1977; Aspöck et al., 1980), Osmaniye (Şengonca, 1979), Antalya (Monserrat & Hölzel, 1987), Hatay (Kaçirek, 1998), Kayseri (Canbulat & Kıyak, 2002b), Antalya, Isparta, Denizli, Aydın, Muğla (Canbulat & Kıyak, 2005b), Iğdır, and Kars (Arı et al., 2007b).

139. *Cueta lineosa* (Rambur, 1842)

Malatya (Hölzel, 1969a), Antalya (Gepp, 1974), Denizli (Monserrat & Hölzel, 1987), Mersin, (Şengonca, 1979), Elazığ (Özbay et al., 2005), Adıyaman, Diyarbakır (Satar & Özbay, 2004), Kırşehir (Canbulat & Özsaraç, 2004), Kayseri (Canbulat & Kıyak, 2002b), Antalya, Aydın, and Denizli (Canbulat & Kıyak, 2005b).

140. *Delfimeus friedeli* (Hölzel, 1972)

Kırıkkale (Hölzel, 1972a), Kırşehir (Canbulat & Özsaraç, 2004), Burdur, Isparta, and Muğla (Canbulat & Kıyak, 2005b).

141. *Delfimeus irroratus* (Olivier, 1811)

Konya (Esben-Petersen, 1933), Ankara, Isparta, Konya, Mersin (Hölzel, 1972a), Adana, Hatay (Kaçirek, 1998), Adana (Arı & Kıyak, 2000; Popov, 1977), Antalya, Denizli, Isparta (Canbulat & Kıyak, 2005b), Arhadan, Iğdır (Arı et al., 2007b), and Çorum (Canbulat & Oğuz, 2013b).

142. *Delfimeus punctatus* Navás, 1914

Southeast Turkey (Navás, 1914).

143. *Dendroleon pantherinus* (Fabricius, 1787)

Rize (Hölzel, 1972a) and Iğdır (Arı et al., 2007b).

144. *Deutoleon turanicus* Navás, 1927

Ardahan (Arı et al., 2007b).

145. *Distoleon curdicus* Hölzel, 1972

Ağrı, Erzurum, Gaziantep, Kayseri, Van (Hölzel, 1972a; Şengonca, 1979), and Ardahan (Arı et al., 2007b).

146. *Distoleon kabulensis* Hölzel, 1972

Elazığ (Hölzel, 1972a) and Kayseri (Canbulat, 2007a).

147. *Distoleon laticollis* (Navás, 1913)

Adana and Mersin (Şengonca, 1979).

148. *Distoleon luteomaculatus* Hölzel, 1972

Iğdır (Arı et al., 2007b).

149. *Distoleon tetragrammicus* (Fabricius, 1798)

Konya (Esben-Petersen, 1933), Aydın, İzmir, Mersin (Şengonca, 1979), Adana (Arı & Kıyak, 2000), Hatay, Mersin, (Kačirek, 1998); Kayseri (Canbulat & Kıyak, 2002b); Çanakkale (Canbulat & Kıyak 2002a), Diyarbakır, Şırnak (Satar & Özbay, 2004), Antalya, Aydın, Burdur, Denizli, Isparta, Muğla (Canbulat & Kıyak, 2005b), and Arhaden (Arı et al., 2007b).

150. *Ecthromyrmex sehitlerolmez* Koçak & Kemal, 2008

Hakkari (Koçak & Kemal, 2008a), Diyarbakır (Koçak & Kemal, 2008b), and Siirt (Özgen et al., 2012)

151. *Euroleon nostras* (Geoffroy in Fourcroy, 1785)

Ankara (Hölzel, 1972a), Ardahan, Iğdır (Arı et al., 2007b), and Tokat (Canbulat & Oğuz, 2013a).

152. *Gymnocnemia variegata* (Schneider, 1845)

Konya (Canbulat & Kıyak, 2003a) and Elazığ (Satar & Özbay, 2003; Özbay et al., 2005).

153. *Macronemurus amoenus* (Hölzel, 1972)

Denizli (Canbulat & Kıyak, 2004) and Elazığ (Özbay et al., 2005).

154. *Macronemurus appendiculatus* (Latreille, 1807)

Amasya (Hölzel, 1987).

155. *Macronemurus bilineatus* Brauer, 1868

Amasya (Navás, 1932), Konya (Esben-Petersen, 1933), Afyon, Ankara, Konya, Van (Hölzel, 1972a, 1987), Nevşehir (Gepp, 1974), Edirne (Popov, 1977), Mersin, İzmir (Şengonca, 1979), Çanakkale, Niğde (Kačirek, 1998), Kayseri (Canbulat & Kıyak, 2002b), Kırşehir (Canbulat & Özsarac, 2004), Antalya, Burdur, Isparta, Denizli, (Canbulat & Kıyak, 2005b), Kars, Iğdır (Arı et al., 2007b), and Çorum (Canbulat & Oğuz, 2013b).

156. *Macronemurus persicus* (Navás, 1915)

Adana and İzmir (Kačirek, 1998).

157. *Megistopus flavicornis* (Rossi, 1790)

Malatya (Hölzel, 1972a), Antalya, Muğla (Canbulat & Kıyak, 2005b), and Kars (Ari et al., 2007b).

158. *Mesonemurus steineri* Hölzel, 1972

Ağrı (Hölzel, 1972a, 1987) and Iğdır (Ari et al., 2007b).

159. *Myrmecaelurus acerbus* (Walker, 1853)

Konya (Esben-Petersen, 1933).

160. *Myrmecaelurus atrifrons* (Hölzel, 1970)

Konya and Ağrı (Hölzel, 1972a).

161. *Myrmecaelurus curdicus* (Hölzel, 1972),

Ağrı (Hölzel, 1972a).

162. *Myrmecaelurus glaseri* (Hölzel, 1972)

Konya (Hölzel, 1972a).

163. *Myrmecaelurus major* McLachlan, 1875

Konya (Esben-Petersen, 1933), Isparta, Malatya (Hölzel, 1969), Eskişehir, Isparta, Konya, Malatya, Van (Hölzel, 1972a), Konya (Şengonca, 1979), Ankara (Kaçirek, 1998), Kayseri (Canbulat & Kıyak, 2002b), Adıyaman, Diyarbakır (Satar & Özbay, 2004), Elazığ (Özbay et al., 2005), Isparta (Canbulat & Kıyak, 2005b), Iğdır, and Kars (Ari et al., 2007b).

164. *Myrmecaelurus trigrammus* (Pallas, 1771)

Antalya (Schneider, 1845), Konya (Esben-Petersen, 1933), Ankara, Eskişehir, Van (Hölzel, 1972a), Edirne (Popov, 1977), Aydın, İzmir, Mersin, (Şengonca, 1979), İstanbul (Monserrat & Hölzel, 1987), Hatay, Mersin, Denizli, Burdur (Kaçirek, 1998), Adana (Ari & Kıyak, 2000), Kayseri (Canbulat & Kıyak, 2002b), Çanakkale (Canbulat & Kıyak, 2002a), Kırşehir (Canbulat & Özsaraç, 2004), Batman, Diyarbakır, Mardin, Şırnak (Satar & Özbay, 2004), Elazığ (Özbay et al., 2005), Burdur, Isparta, Denizli, Aydın, Muğla (Canbulat & Kıyak, 2005b), Arhadan, Iğdır, Kars (Ari et al., 2007b), and Tokat (Canbulat & Oğuz, 2013a).

165. *Myrmecaelurus spectabilis* Navás, 1912

Bolu (Canbulat, 2007a).

166. *Myrmecaelurus varians* Navás, 1913

Bursa (Hölzel, 1972a; Canbulat, 2007b).

167. *Myrmeleon formicarius* Linnaeus, 1767

Konya (Esben-Petersen, 1933), Middle Anatolia (Aspöck & Aspöck, 1969a), Mersin (Hölzel, 1972a), İzmir (Şengonca, 1979), and Antalya (Canbulat & Kıyak, 2005b).

168. *Myrmeleon lagopus* Gerstaecker, 1897

According to Stange (2004) this species is valid.
Mardin (Gerstaecker, 1894).

169. *Myrmeleon hyalinus distinguendus* Rambur, 1842

Antalya, Mersin (Şengonca, 1979), Adana, and Hatay (Kačirek, 1998).

170. *Myrmeleon inconspiuus* Rambur, 1842

Antalya (Gepp, 1974; Canbulat & Kıyak, 2005b), Adıyaman, Diyarbakır (Satar & Özbay, 2004), Elazığ (Özbay et al., 2005), Kars (Arı et al., 2007b), and Çorum (Canbulat & Oğuz, 2013b).

171. *Myrmeleon noacki* Ohm, 1965

Konya (Aspöck et al., 1980), Burdur, Mersin (Kačirek, 1998); Antalya, Burdur, and Denizli (Canbulat & Kıyak, 2005b).

172. *Nedroledon anatolicus* Navás, 1914

Bursa (Hölzel, 1972a; Aspöck et al., 1980) and Adana (Kačirek, 1998).

173. *Nedroledon striatus* Hölzel, 1972

Malatya (Şengonca, 1979) and Diyarbakır (Satar & Özbay, 2004).

174. *Neuroleon (Ganussa) tenellus* (Klug, 1834)

Adana, Siirt (Şengonca, 1979), Mersin (Aspöck et al., 1980), Antalya (Monserrat & Hölzel, 1987), Adana (Kačirek, 1998), Kayseri (Canbulat & Kıyak, 2002b), Batman, Diyarbakır, Mardin (Satar & Özbay, 2004), Antalya, Aydın, and Muğla (Canbulat & Kıyak, 2005b).

175. *Neuroleon (Neuroleon) assimilis* (Navás, 1914)

İzmir (Şengonca, 1979), İstanbul (Monserrat & Hölzel, 1987), Mersin (Kačirek, 1998), Çanakkale (Canbulat & Kıyak, 2002a), Batman, Diyarbakır, Mardin (Satar & Özbay, 2004), Antalya, Burdur, Isparta, Denizli, Muğla (Canbulat & Kıyak, 2005b), Arhadan, Iğdır (Arı et al., 2007b), and Tokat (Canbulat & Oğuz, 2013a).

176. *Neuroleon (Neuroleon) diana*e Hölzel, 1972

Adıyaman (Şengonca, 1979).

177. *Neuroleon (Neuroleon) egenus* (Navás, 1914)

Aydın, Burdur (Kačirek, 1998), Adıyaman, Batman, Diyarbakır (Satar & Özbay, 2004), Muğla (Canbulat & Kıyak, 2005b), and Iğdır (Arı et al., 2007b).

178. *Neuroleon (Neuroleon) jucundus* Navas, [1924]

According to Stange (2004) this species is valid
Bursa (Navás, 1921).

179. *Neuroleon (Neuroleon) microstenus* (McLachlan, 1898)

Neveşehir (Gepp, 1974), Ankara (Hölzel, 1972a), Adana (Şengonca, 1979), Çanakkale (Canbulat & Kıyak, 2002a), Diyarbakır, Mardin (Satar & Özbay, 2004), and Iğdır (Arı et al., 2007b).

180. *Neuroleon (Neuroleon) nemausiensis* (Borkhausen, 1791)

Middle Black Sea region (Aspöck et al., 1980), Denizli (Canbulat & Kıyak, 2005b), Arhadan, Iğdır (Arı et al., 2007b).

181. *Nicarinus poecilopterus* (Stein, 1863)

Adana (Şengonca, 1979), Mersin (Kaçirek, 1998), Antalya, Denizli (Canbulat & Kıyak, 2005b), and Arhadan, (Arı et al., 2007b).

182. *Palpares hispanus turcicus* Koçak, 1976

Hakkari (Koçak, 1976; Canbulat, 2007b).

183. *Palpares libelluloides* (Linnaeus, 1764)

Konya (Esben-Petersen, 1933), Antalya (Gepp, 1974), Ankara, Adana (Popov, 1977), Mersin, İzmir, İstanbul, Muğla, (Şengonca, 1979), Burdur, Kahramanmaraş, Mersin, Şanlıurfa, (Kaçirek, 1998), Kayseri (Canbulat & Kıyak, 2002b), Çanakkale (Canbulat & Kıyak, 2002a), Adıyaman, Batman, Diyarbakır, Siirt, Şanlıurfa (Satar & Özbay, 2004), Kırşehir (Canbulat & Özsaraç, 2004), Elazığ (Özbay et al., 2005), Antalya, Aydın, Burdur, Isparta, Denizli, Muğla (Canbulat & Kıyak, 2005b), Iğdır (Arı et al., 2007b), Tokat (Canbulat & Oğuz, 2013a), Amasya, and Çorum (Canbulat & Oğuz, 2013b).

184. *Palpares solidus* (Gerstaecker, [1894])

Adana (Şengonca, 1979) and Mardin (Hölzel, 1972a).

185. *Pseudofornicaleo gracilis* (Klug, [1834])

Hatay (Kaçirek, 1998).

186. *Solter ledereri* Navás, 1912

Denizli (Monserrat & Hölzel, 1987), Adıyaman, Diyarbakır, Mardin (Satar & Özbay, 2004), Antalya (Canbulat & Kıyak, 2005b), and Iğdır (Arı et al., 2007).

187. *Solter liber* Navás, 1912

Adana (Arı & Kıyak, 2000).

188. *Solter pulcher* Hölzel, 1967

Kayseri (Şengonca, 1979).

189. *Synclisis baetica* (Rambur, 1842)

İzmir (Şengonca, 1979) and Antalya (Canbulat & Kıyak, 2005b).

Family: Nemopteridae Burmeister, 1839**190. *Croce schmidtii* (Navás, 1927)**

Adiyaman (Dobosz & Ábrahám, 2009).

191. *Dielocroce baudii* (Griffini, 1895)

Diyarbakır (Satar, 2005), Adiyaman, and Şanlıurfa (Dobosz & Ábrahám, 2009).

192. *Dielocroce ephemera* (Gerstaecker, [1834])

Mardin (Gerstaecker, 1894; Navás, 1910; Şengonca, 1981b), Batman (Satar & Özbay, 2004), Adiyaman, and Şanlıurfa (Dobosz & Ábrahám, 2009).

193. *Dielocroce modesta* Hölzel, 1975

Adiyaman and Şanlıurfa (Dobosz & Ábrahám, 2009).

194. *Lertha extensa* (Olivier, 1811)

Şanlıurfa, Hakkari (Şengonca, 1979; 1981b), Hatay (Tjeder, 1970), Kahramanmaraş, Malatya (Hölzel, 1968) Şanlıurfa (Kačirek, 1998), Van (Koçak & Kemal, 2002), Diyarbakır, Mardin, Siirt (Satar & Özbay, 2004), Iğdır, Kars (Arı et al., 2008), Adiyaman, Gaziantep, Diyarbakır, and Mardin (Dobosz & Ábrahám, 2009).

195. *Lertha ledereri* (Selys – Longchamps, 1866)

Konya (Esben-Petersen, 1933; Hölzel, 1968; Aspöck et al., 1984), İzmir, Kayseri (Popov, 1970), Denizli (Aspöck et al., 1980), Niğde (Kačirek, 1998), Kayseri (Canbulat & Kıyak, 2002b), Antalya, Burdur, Denizli, Isparta (Canbulat & Kıyak, 2005b), Aksaray, Ankara, Nevşehir, and Şanlıurfa (Dobosz & Ábrahám, 2009).

196. *Lertha palmonii* (Tjeder, 1970)

Van (Koçak & Kemal, 2002), Mardin (Koçak & Kemal, 2008b), Adiyaman, Gaziantep, Mardin, and Şanlıurfa (Dobosz & Ábrahám, 2009).

197. *Lertha schmidtii* (H. Aspöck & U. Aspöck & Hölzel, 1984)

Eskişehir, Konya (Aspöck et al., 1984), Antalya (Canbulat & Kıyak, 2005b), Ankara, Kırşehir, and Nevşehir (Dobosz & Ábrahám, 2009).

198. *Lertha sheppardi* (Kirby, 1904)

Amanos mountains (Navás, 1910, 1912; Hölzel, 1968), Denizli (Şengonca, 1979), Mersin (Şengonca, 1981b), Diyarbakır, and Şanlıurfa (Satar & Özbay, 2004).

199 *Lertha vartianae* H. Aspöck & U. Aspöck & Hölzel, 1984

Konya, Karaman, Antalya, Mersin (Aspöck et al., 1984), and Burdur (Dobosz & Ábrahám, 2009).

200. *Nemoptera aegyptiaca* Rambur, 1842

Hatay (Popov, 1970), Diyarbakır, and Şanlıurfa (Dobosz & Ábrahám, 2009).

201. *Nemoptera coa* (Linnaeus, 1758)

Bursa, İstanbul, İzmir (Popov, 1970), Adana, Bursa, İstanbul, İzmir, Muş (Şengonca, 1981b), and Muğla (Dobosz & Ábrahám, 2009).

202. *Nemoptera sinuata* Olivier, 1811

Antalya (Schneider, 1845), Amasya, Tokat (Navás, 1910), Taurus. (Navás, 1932), Konya (Esben-(Esben - Petersen, 1933), Hakkari (Gepp, 1974), Amasya, Antalya, Isparta, Kahramanmaraş, Konya, Mersin (Hölzel, 1968; Şengonca, 1981b), Hakkari, İzmir, Kütahya, (Şengonca, 1979), Adana (Kačirek, 1998; Arı & Kıyak, 2000), Kayseri (Canbulat, & Kıyak, 2002b), Şanlıurfa (Satar & Özbay, 2004), Antalya, Aydın, Burdur, Denizli, Isparta, Muğla (Canbulat & Kıyak, 2005b), Ardahan (Arı et al., 2007), Adıyaman, Aksaray, Artvin, Balıkesir, Bilecik, Bolu, Bitlis, Erzurum, Kastamonu, Mardin, and Tunceli (Dobosz & Ábrahám, 2009).

Family: Osmylidae Leach in Brewster, 1815

203. *Osmylus cilicicus* Krüger, 1913

İzmir (Şengonca, 1979), Artvin, and Bolu (Dobosz, 2007b).

204. *Osmylus elegantissimus* Kozhantshikov, 1951

Northeast Anatolia (Aspöck et al., 2001) and Tokat (Canbulat & Oğuz, 2013a).

205. *Osmylus fulvicephalus* (Scopoli, 1763)

West Anatolia (Aspöck et al., 1980), Antalya, Burdur, Isparta, Muğla (Canbulat & Kıyak, 2005b), and Border of Ardahan and Erzurum (Arı et al., 2008)

206. *Osmylus multiguttatus* McLachlan, 1870

Trabzon (McLachlan, 1870), Adana, Erzurum, Tunceli (Dobosz, 2007b), and Kayseri (Canbulat, 2013b)

Family: Sisyridae Handlirsch, 1908

207. *Sisyra nigra* (Retzius, 1783)

Yalova (Berber & Canbulat, 2009)

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