

NEW LOCALITY RECORDS OF MELOIDAE (COLEOPTERA) FAUNA OF TURKEY

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ABSTRACT: In this study, Meloidae material housed in the Prof. Dr. Niyazi Lodos Museum (LEMT), İzmir, Turkey have been evaluated. A total of 26 species belonging to eight genera of two subfamilies have been presented. New locality records for some species have been given.

KEY WORDS: Fauna, Meloidae, the blister beetles, Turkey, biodiversity

The Meloidae fauna of Turkey has been studied by foreign and native scientists, such as Bodemeyer (1900), Ganglbauer (1905), Kaszab (1941, 1952a,b, 1959, 1968), Mucho (1962), Pardo Alcáida (1977), Bologna (1979), Öncüer (1991), Lodos (1998), Özbek & Szaloki (1998) and Koçak & Kemal (2010). Among those, Özbek & Szaloki (1998) reported 147 species. Bologna (2008) listed 171 species from Turkey in the Palaeartic Catalogue of blister beetles. Recently Koçak & Kemal (2010) listed 178 species known from Turkey with their synonyms and distributions in their checklists.

The aim of the present paper is to present the complete and new locality records of preserved material in the Prof. Dr. Niyazi Lodos Museum (LEMT) to researchers and relevant persons.

MATERIAL AND METHOD

Most of the material belonging to Meloidae family have been collected within the research projects by the researchers of Department of Plant Protection, Faculty of Agriculture, University of Ege (Lodos et al., 1978, 1983, 1989 and others). Rest of the material collected and given as a gift to the Prof. Dr. Niyazi Lodos Museum (LEMT), Ege University, İzmir, Turkey, by researchers, students and amateurs. Material have been determined by M. Bologna and by N. Lodos.

RESULTS AND DISCUSSION

In this study 26 species of eight genera belong to two subfamilies of Meloidae were given.

Meloinae: Cerocomini

***Cerocoma (Metacerocoma) schreberi* Fabricius, 1781**

Material examined: Adapazarı: 18.VII.1972, *Matricaria chamomilla*, det. Bologna, 1 ex. Totally 1 ex.

Meloinae: Lyttini

***Alosimus chalybaeus* (Tauscher, 1812)**

Material examined: Afyonkarahisar: 12.VI.1972, *Triticum aestivum*, det. Bologna, 2 exs. İzmir: Bornova, 16.IV.1961, poaceous plants, det. Bologna, 1 ex.; 13.VI.1961,

det. Bologna, 1 ex.; 27.IV.1962, det. Bologna, 1 ex.; 29.IV.1962, weed, det. Bologna, 1 ex.; 14.V.1962, det. Bologna, 1 ex.; 30.IV.1974, det. Bologna, 1 ex.; 23.III.1976, weeds, det. Bologna, 2 exs.; 28.V.1976, weed, det. Bologna, 1 ex.; 15.IV.1977, weed, det. Bologna, 1 ex.; 19.V.1977, weed, det. Bologna, 1 ex.; 14.V.1981, *Elymus elymoides*, 5 exs; Çeşme, 1963, det. Bologna, 1 ex. Manisa: 01.VI.1972, weed, 1 ex. Mersin: Mut, 20.IV.1985, *T.aestivum*, 11 exs.; 21.IV.1985, *T.aestivum*, 1 ex.; 22.IV.1985, weeds, 3 exs. Uşak: Sivashı, 24.VI.1981, *Papaver somniferum*, 3 exs. Totally 38 exs. Recorded from Mersin province for the first time.

***Alosimus decolor* (Abeille de Perrin, 1880)**

Material examined: İzmir: Bornova, 18.V.1975, weed, det. Bologna, 1 ex.; 27.V.1975, weed, det. Bologna, 1 ex.; 04.V.1977, weed, det. Bologna, 1 ex. Totally 3 exs.

***Alosimus luteus* (Waltl, 1838)**

Material examined: Diyarbakır: Ergani, 07.V.1970, cruciferous plants, det. Bologna, 1 ex. Totally 1 ex.

***Alosimus pallidicollis* (Gyllenhal, 1806)**

Material examined: Elazığ: Kovancılar, 13.VI.1972, weed, det. Bologna, 1 ex. Totally 1 ex.

***Alosimus smyrnensis* (Maran, 1942)**

Material examined: Denizli: Pamukkale, 15.IV.1973, weed, det. Bologna, 1 ex. İzmir: 30.IV.1975, weed, det. Bologna, 1 ex.; 25.IV.1980, *Sinapis* sp., 3 exs.; Balçova, İnciraltı, 16.IV.1964, weed, det. Bologna, 1 ex.; 16.IV.1964, weed, 1 ex.; Bayındır, 24.IV.1973, *T.aestivum*, det. Bologna, 1 ex.; 24.IV.1973, weed, det. Bologna, 1 ex.; 27.VI.1976, weed, det. Bologna, 1 ex.; Bornova, 18.V.1975, weed, det. Bologna, 1 ex.; 19.V.1975, weed, det. Bologna, 1 ex.; 13.V.1976, weed, 1 ex.; 30.V.1977, weed, 1 ex.; 10.VI.1977, weed, 1 ex.; 14.V.1978, weed, 1 ex.; 12.IV.1981, poaceous plants, 1 ex.; 03.V.1981, weed, 1 ex.; 23.V.1981, poaceous plants, 1 ex.; 26.VI.1981, weed, 1 ex.; Gaziemir, 06.V.1977, weed, 1 ex.; 15.VI.1978, weeds, 2 exs.; 26.IV.1981, weeds, 3 exs.; Güzelbahçe, Kilizman, 15.V.1975, weed, det. Bologna, 1 ex.; Menderes, Ahmetbeyli, 17.VI.1980, weed, 1 ex.; Bulgurca, 10.V.1981, weeds, 3 exs.; Cumaovası, 09.IV.1973, grasses, det. Bologna, 1 ex.; Gümüldür, 09.IV.1973, weed, det. Bologna, 1 ex.; Ödemiş, 24.IV.1973, *Urtica dioica*, det. Bologna, 2 exs.; 24.IV.1973, weed, det. Bologna, 1 ex.; 25.IV.1973, *Matricaria chamomilla*, det. Bologna, 1 ex.; Torbalı, 25.IV.1962, poaceous plants, det. Bologna, 2 exs.; Urla, 19.V.1981, weed, 1 ex. Totally 40 exs.

***Lydus pilicollis* Fairmaire, 1892**

Material examined: Osmaniye: Hasanbeyli, Almanpınarı, 08.VI.1972, *T.aestivum*, det. Bologna, 1 ex. Totally 1 ex. Reported from Osmaniye province for the first time.

***Lydus trimaculatus* (Fabricius, 1775)**

Material examined: Bursa: İznik, 20.VII.1972, weeds, det. Bologna, 4 exs. İzmir: Gaziemir, 20.IV.1981, weeds, 2 exs. Totally 6 exs. Reported from İzmir province for the first time.

***Lydus turcicus* Kaszab, 1952**

Material examined: Isparta: 12.VI.1973, weed, det. Bologna, 1 ex. Totally 1 ex.

***Muzimes collaris* (Fabricius, 1787)**

Material examined: Aydın: Söke, 16.V.1987, weed, det. as *Micromerus collaris*, 1 ex. Burdur: 12.VI.1973, weed, det. Bologna as *Micromerus collaris*, 1 ex. Isparta: 12.VI.1973, weeds, det. as *Micromerus collaris*, 3 exs.; 12.VI.1973, weeds, det. Bologna as *Micromerus collaris*, 6 exs.; Keçiborlu, 10.VII.1963, compositaeous plants, det. Bologna as *Micromerus collaris*, 1 ex. İzmir: Menderes, Ahmetbeyli,

17.VI.1980, weed, det. as *Micromerus collaris*, 1 ex.; Ödemiş, Bozdağ, 08.VII.1974, *T.aestivum*, det. as *Micromerus collaris*, 2 exs. Konya: Ereğli, 01.VII.1980, weeds, det. as *Micromerus collaris*, 6 exs. Manisa: 01.VI.1972, weed, det. as *Micromerus collaris*, 1 ex. Mersin: Çamlıyayla, Namrun, 01.VI.1984, *Sinapis* sp., det. as *Micromerus collaris*, 1 ex.; Gözne, 31.V.1984, weeds, det. as *Micromerus collaris*, 3 exs. Totally 26 exs. Reported from Aydın, İzmir, Konya and Mersin provinces for the first time.

***Muzimes dersimensis* (Kaszab, 1968)**

Material examined: Diyarbakır: 07.V.1970, cruciferous plants, det. Bologna as *Micromerus dersimensis*, 1 ex. Totally 1 ex. Endemic species in Turkey.

***Oenas crassicornis* (Illiger, 1800)**

Material examined: Bilecik: Gölpazarı, 15.VII.1972, weeds, det. Bologna, 5 exs. Bursa: İznik, 20.VII.1972, weed, det. Bologna, 1 ex. İzmir: Bornova, 1963, det. Bologna, 1 ex.; 18.V.1975, weed, det. Bologna, 1 ex.; 13.V.1976, weed, 1 ex.; 15.VI.1976, weed, det. Bologna, 1 ex.; 19.VI.1981, weeds, 2 exs.; 20.VI.1981, weed, 1 ex. Manisa: Yunussemre, Beydere, 22.VII.1960, weeds, det. Bologna, 2 exs. Totally 15 exs.

Meloinae: Mylabrini

***Hycleus fuscus* (Olivier, 1811)**

Material examined: Antalya: Güllük Mountain, 03.VI.1973, weed, det. Bologna as *Coryna fusca*, 1 ex. Aydın: 11.V.1976, weed, det. Bologna as *C.fusca*, 1 ex. İzmir: Bornova, 04.III.1962, det. Bologna as *C.fusca*, 1 ex. Manisa: 01.VI.1972, *Rosa* sp., det. Bologna as *C.fusca*, 3 exs. Totally 6 exs. Reported from Antalya, Aydın, İzmir and Manisa provinces for the first time.

***Hycleus polymorphus* (Pallas, 1771)**

Material examined: Denizli: Acipayam, Kızıllıhisar, 13.VI.1973, *Verbascum* sp., det. Bologna as *Gorizia polymorpha*, 1 ex. İzmir: Bayındır, 26.VII.1976, meadow plants, det as *G.polymorpha*, 1 ex.; Bornova, 26.V.1975, *Carthamus* sp., det. Bologna as *G.polymorpha*, 1 ex.; Güzelbahçe, Kilizman, 16.V.1974, weed, det. Bologna as *G.polymorpha*, 1 ex. Totally 4 exs. Reported from Denizli and İzmir provinces for the first time.

***Hycleus scabiosae* (Olivier, 1811)**

Material examined: Mardin: 12.VI.1975, det. Bologna as *Coryna scabiosae*, 1 ex.; Midyat, 12.VI.1973, det. Bologna as *C.scabiosae*, 1 ex. Uşak: 10.VI.1972, weed, det. Bologna as *C.scabiosae*, 1 ex. Totally 3 exs. Reported from Uşak province for the first time.

***Hycleus zebraeus* (Marseul, 1870)**

Material examined: Afyonkarahisar: Şuhut, 15.VI.1972, weed, det. Bologna as *Coryna zebraeus*, 1 ex. Denizli: 17.VI.1970, weed, det. Bologna as *C.zebraeus*, 1 ex. Gaziantep: 08.VI.1973, weed, det. Bologna as *C.zebraeus*, 1 ex. İzmir: Bornova, 26.V.1975, *Carthamus* sp., det. Bologna as *C.zebraeus*, 2 exs.; Menderes, Gümüşsu, 21.VI.1974, det. Bologna as *C.zebraeus*, 1 ex. Mardin: Midyat, 12.VI.1973, det. Bologna as *C.zebraeus*, 3 exs. Muğla: Fethiye, Seki, 09.VI.1973, weed, det. Bologna as *C.zebraeus*, 1 ex. Uşak: 10.VI.1972, weed, det. Bologna as *C.zebraeus*, 1 ex. Totally 11 exs. Reported from Uşak province for the first time.

***Mylabris (Eumylabris) calida* (Pallas, 1782)**

Material examined: Ankara: Çubuk, 28.VIII.1975, weeds, 3 exs. Edirne: İpsala, 27.VI.1972, weed, det. Bologna, 1 ex. İzmir: Balçova, Çatalkaya, 22.VII.1969, *Centaurea solstitialis*, 4 exs.; 11.VIII.1971, *Vigna unguiculata*, 3 exs.; Bornova, 09.IV.1962, 1 ex.; 25.IV.1962, 1 ex.; 10.IV.1975, weed, det. Bologna, 1 ex.; 19.V.1981, weeds, 2 exs.; Karşıyaka, Yamanlar, VIII.1973, weeds, det. Bologna, 5

exs.; Narlıdere, 25.VI.1961, 1 ex.; Ödemiş, Bozdağ, 08.VII.1974, *T.aestivum*, 2 exs.; Gölcük, 07.VII.1970, *Ononis spinosa*, 3 exs.; 30.VII.1975, *Onopordum* sp., det. Bologna, 5 exs. Manisa: 01.VI.1972, weeds, det. Bologna, 3 exs.; Central province, Osmanlı, 01.VI.1972, *Pistacia terebinthus*, det. Bologna, 3 exs.; Gördes, 26.VII.1977, weed, 1 ex. Şanlıurfa: Suruç, 26.VII.1976, *Gossypium hirsutum*, 1 ex. Uşak: Yeniköy, 21.VI.1976, *Silybum marianum*, 16 exs. Totally 56 exs. Recorded for the first time from Ankara, Şanlıurfa and Uşak provinces.

***Mylabris (Eumylabris) cincta* Olivier, 1795**

Material examined: Adana: Saimbeyli, 11.VII.1986, weeds, 2 exs. Antalya: 29.VI.1980, weeds, 2 exs.; Finike, 30.VII.1985, weed, 1 ex.; Korkuteli, 15.VII.1976, weeds, det. Bologna, 2 exs. Artvin: 1971, *Camellia sinensis*, det. Bologna, 1 ex.; 1971, *Citrus* sp., det. Bologna, 1 ex. İzmir: Bornova, 04.VI.1962, 1 ex.; Menderes, Gümüüşsu, 21.VI.1974, det. Bologna, 1 ex. Kahramanmaraş: 21.VII.1984, weed, 1 ex.; 08.VI.1985, weed, 1 ex. Manisa: 01.VI.1972, weed, 1 ex.; 01.VI.1972, weeds, det. Bologna, 4 exs.; Central province, Osmanlı, 01.VI.1972, *Avena sativa*, det. Bologna, 2 exs.; 01.VI.1972, *P.terebinthus*, det. Bologna, 7 exs. Mardin: Artuklu, Sultanköy, 17.VI.1975, asteraceous plants, det. Bologna, 4 exs. Muğla: Fethiye, Seki Plateau, 09.VI.1973, *Avena sativa*, det. Bologna, 1 ex. Niğde: Ulukışla, Çiftehane, 01.VII.1980, weed, 1 ex. Totally 33 exs. Recorded for the first time from Kahramanmaraş and Niğde provinces.

***Mylabris (Eumylabris) crocata* (Pallas, 1781)**

Material examined: Afyonkarahisar: Emirdağ, 14.VI.1972, *T.aestivum*, det. Bologna, 1 ex. İzmir: Dikili, 24.V.1973, weed, det. Bologna, 1 ex. Manisa: Central province, Osmanlı, 01.VI.1972, *P.terebinthus*, det. Bologna, 1 ex. Totally 3 exs.

***Mylabris (Eumylabris) fabricii* Sumakov, 1924**

Material examined: Ankara: 29.VI.1978, weeds, 4 exs. İzmir: Bozdağ, 08.VII.1974, *T.aestivum*, det. Bologna, 1 ex. Mardin: Mazıdağı, 05.VI.1976, weed, det. Bologna, 1 ex. Totally 6 exs.

***Mylabris (s.str.) ciliciensis* (Escherich, 1899)**

Material examined: Diyarbakır: 19.VI.1972, weed, det. Bologna, 1 ex. Totally 1 ex. Endemic in Turkey.

***Mylabris (s.str.) olivieri* Billberg, 1813**

Material examined: Bilecik: Pazaryeri, 16.VII.1972, weed, det. Bologna, 1 ex. Totally 1 ex.

***Mylabris (s.str.) quadripunctata* (Linnaeus, 1767)**

Material examined: Bilecik: Pazaryeri, 16.VII.1972, weed, det. Bologna, 1 ex. Diyarbakır: 19.VI.1972, weed, det. Bologna, 1 ex. Edirne: İpsala, 27.VI.1972, weed, det. Bologna, 1 ex. Erzurum: 04.VIII.1977, weed, det. Bologna, 1 ex. Isparta: Eğirdir, 10.VII.1963, weed, det. Bologna, 1 ex. İzmir: 17.VII.1976, weed, det. Bologna, 1 ex.; Bornova, 18.VI.1961, weed, det. Bologna, 1 ex.; 19.VI.1961, det. Bologna, 1 ex.; 20.VI.1961, det. Bologna, 1 ex.; 25.V.1972, weed, 1 ex.; 19.VI.1974, *T.aestivum*, det. Bologna, 1 ex.; 07.V.1975, weed, det. Bologna, 1 ex.; 26.V.1975, *Carthamus* sp., det. Bologna, 16 exs.; 08.VI.1975, weeds, det. Bologna, 3 exs.; 17.V.1976, weeds, det. Bologna, 2 exs.; 01.VI.1976, weeds, det. Bologna, 2 exs.; 04.VI.1976, weeds, det. Bologna, 2 exs.; 12.VI.1976, weeds, det. Bologna, 2 exs.; 18.VI.1976, weeds, det. Bologna, 3 exs.; 20.VI.1976, weeds, det. Bologna, 4 exs.; 21.VI.1976, weeds, det. Bologna, 5 exs.; 26.III.1977, weed, 1 ex.; 09.V.1977, weed, det. Bologna, 1 ex.; 18.V.1977, weed, det. Bologna, 1 ex.; 20.V.1977, weed, det. Bologna, 1 ex.; Doğanlar, 07.VI.1976, weeds, det. Bologna, 2 exs.; Kemalpaşa, 29.V.1976, weed, det. Bologna, 1 ex.; Menderes, Gümüüşsu, 23.VI.1974, det. Bologna, 1 ex.; Narlıdere, 25.V.1961, det. Bologna, 1 ex.; Narlıdere, 25.VI.1961, det. Bologna, 1 ex.; Selçuk, Meryemane, 06.VI.1972, *Arbutus unedo*, det. Bologna,

1 ex. Kütahya: 19.VI.1972, *Verbascum* sp., det. Bologna, 1 ex. Manisa: 22.VII.1960, weed, det. Bologna, 1 ex.; 01.VI.1972, weeds, det. Bologna, 11 exs.; 02.VI.1972, weed, det. Bologna, 1 ex.; Central province, Osmanlı, 01.VI.1972, *Avena sativa*, det. Bologna, 3 exs.; 01.VI.1972, *P.terebinthus*, det. Bologna, 4 exs. Mardin: Midyat, 12.VI.1973, det. Bologna, 1 ex. Muğla: Fethiye, 21.V.1974, weeds, det. Bologna, 2 exs.; Köyceğiz, 22.V.1974, weed, det. Bologna, 1 ex.; Marmaris, 07.VI.1973, weed, 1 ex.; 07.VI.1973, weeds, det. Bologna, 2 exs.; 23.IV.1979, 1 ex. Sakarya: Sapanca, 15.VII.1972, weed, det. Bologna, 1 ex. Şanlıurfa: Ceylanpınar, 05.VI.1976, det. Bologna, 6 exs. Tekirdağ: Saray, 02.VII.1972, weed, det. Bologna, 1 ex. Tunceli: Pülümür, 13.VII.1977, det. Bologna, 2 ex. Totally 101 exs. Recorded for the first time from Diyarbakır province.

Mylabris (s.str.) variabilis (Pallas, 1781)

Material examined: Antalya: Central province, 24.VI.1987, pupae of this species were found with eggs of *Calliptamus italicus* by N. Lodos, 1 ex. Bursa: Uludağ, 18.VII.1972, det. Bologna, 1 ex. Çankırı: Korgun, Dikenli, 08.VII.1976, 1 ex. Eskişehir: Mihalgazi, Sarıcaköy, 29.VI.1976, det. Bologna, 1 ex. Totally 4 exs. Recorded for the first time from Eskişehir province.

Mylabris (Zitunabris) syriaca Klug, 1845

Material examined: Antalya: Akseki, 22.VI.1981, weeds, 3 exs. Mersin: Anamur, 03.VII.1986, *Heliotropium* sp., 5 exs.; Çamlıyayla, 10.VII.1986, *Paliurus* sp., 1 ex. Muğla: Marmaris, 07.VI.1973, weed, det. Bologna, 1 ex. Totally 10 exs.

Nemognathinae: Stenoderini

Stenodera (s.str.) caucasica (Pallas, 1781)

Material examined: Kütahya: Simav, 07.V.1973, *Rubus* sp., det. Bologna, 1 ex. Totally 1 ex.

In consequence of this study, a total of 374 specimens of 26 species belonging to two subfamilies of Meloidae have been preserved in the collection of Prof. Dr. Niyazi Lodos Museum (LEMT). Among those *M.quadripunctata* (101 exs), *M.calida* (56 exs.) and *A.smyrnensis* (40 exs.) are richer species than others in collection.

New locality records for 12 species namely, *A.chalybaeus*, *L.pilicollis*, *L.trimaculatus*, *M.collaris*, *H.fuscus*, *H.polymorphus*, *H.scabiosae*, *H.zebraeus*, *M.calida*, *M.cincta*, *M.quadripunctata* and *M.variabilis* were given for the first time from Turkey.

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