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DISTRIBUTIONAL DATA ON SOME EAST - MEDITERRANEAN BRACHYCERA (DIPTERA)

[Results of the „Euphrates” Expedition - 2008, in Turkey and Syria]

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Abstract. It is presented the distribution of 50 brachyceran dipteran species (11 families) from Turkey and Syria, collected in the expeditions „Euphrates” - 2008, „Focida” - 2006, „Taurus” - 2005. From them, nine species are not reported in the „Catalogue of the Palaearctic Dipterans”.

Résumé. On présente la distribution de 50 espèces de Diptères brachycères (11 familles) de Turquie et de Syrie, collectées au cours des expéditions „Euphrates” - 2008, „Focida” - 2006, „Taurus” - 2005. Neuf espèces ne sont pas citées dans le „Catalogue des Diptères Paléarctiques”.

Key words: Diptera, Brachycera, East-Mediterranean, distribution, data, „Euphrates”, expedition, Turkey, Syria, 2008.

INTRODUCTION

Continuing the project „Romanian contributions on the Mediterranean fauna research” organized by „Grigore Antipa” National Museum of Natural History of Bucharest and „Oceanic Club” Society of Oceanographical and Environmental Protection Explorations of Constanța (Pârvu, 2007), we present a list of brachyceran dipteran species collected during the expedition „Euphrates” 2008 in Turkey and Syria, to which some species, collected in 2005 and 2006 are added.

The list includes distributional data on 11 families with 50 species. Out of them, 10 families with 41 species are from Turkey and 5 families with 17 species are from Syria. Nine species are not reported in the „Catalogue of the Palaearctic Dipterans”, they being novelties or rarities for these countries. A special species is *Neorhynchocephalus tauscheri* (Fischer) (Nemestrinidae), proposed for the Red lists (Narchuk, 2007).

The paper is a part of the first author’s PhD thesis, „Contributions to the systematic and zoogeographic study of some brachyceran dipterans from the southern and eastern areas of the Mediterranean subregion”, prepared in the University of Bucharest.

MATERIAL AND METHOD

The material, preserved in the collections of „Grigore Antipa” National Museum of Natural History of Bucharest, originates in the expeditions „Euphrates” - 2008, „Taurus” - 2005 and „Focida” - 2006, in Turkey and Syria. The material from 2008 was collected between the 17th of May - the 3rd of June, using the entomological net and Barber traps, and GPS, in 115 samples (marked with # and the sample number).

English translation by Mihaela Barcan Achim.

Abbreviations:

* Species previously reported by us from Turkey (Pârva & Popescu - Mirceni, 2006),

• Species absent from the Palaearctic catalogues or little known in the area.

Collectors' names: AS - Andreea Sandu; CP - Corneliu Pârva; GS - George Stroe; RB - Robert Bujor;

RPM - Răzvan Popescu - Mirceni; RZ - Răzvan Zaharia; SG - Sorin Grigore.

RESULTS

Taxonomic and distributional list

Family Tabanidae

Pangonius fulvipes (Loew, 1859): Syria, 2 ♂♂, 2 ♀♀, # 4 b, Kassap, N: 35°45'06'', E: 035°53'22'', 20.V.2008, altitude: 64 m., CP, RPM, RZ. Distribution: Europe: YU, GR, TR, ? I, Asia: Syria, Turkey.

* *Chrysops flavipes* Meigen, 1804: Syria, 2 ♀♀, # 30, Arrakka 25.V.2008, N: 35°55'37'', E: 038°58'48'', altitude: 242 m, CP. Distribution: Europe: CS, A, ? CH, H, P, E, F, I, YU, R, BG, AL, GR, TR, CY; USSR: SET, TC, CZ, SMA; Asia: Arabic States, Lebanon, Syria, Israel, Turkey, Iraq, Iran, Afghanistan; North Africa: Morocco, Algeria; Oriental Region: India.

Dasyrhamphus nigrinus (Fabricius, 1794): Syria, 1 ♀, # 10 a, Saladin Citadel, 4 km S (Jobeth Birghal), altitude 521 m, N: 35°34'28'', E: 036°04'48'', RZ, GS. Distribution: Europe: P, E, F, I, ? GR; Asia: Turkey, Israel, Syria; North Africa: Morocco, Algeria, Tunisia, Lybia, Egypt.

D. umbrinus (Meigen, 1820): 2 ♂♂, 2 ♀♀, # 10 c, Syria; 2 ♂♂, 2 ♀♀, # 10 c, Saladin Citadel, 22.V. 2008, CP. Distribution: Europe: I, YU, ? R, BG, AL, GR, TR; USSR: TC (Ge, Arm, Az), SMA (Tu); Asia: Turkey, Labanon, Israel, Syria (after Al - Talafha et al., 2005).

Family Stratiomyidae

Lasiopa villosa (Fabricius, 1794): 2 ♂♂, # 50 o, Turkey, Kahmaranmaraş, 1.VI.2008, CP. Distribution: Europe: ? F, D, PL, CS, A, H, R, I, YU, BG, AL; Asia: TR, (Üstüner et al., 2002), Israel, Iran.

Nemotelus (s. str.) *bipunctatus* (Loew, 1864): 1 ♂, # 50, Turkey, Aliaia, 6.VIII.2006, CP. Species mentioned for the first time in Turkey by Üstüner et al. (op. cit.). Distribution: Europe: R, BG ; USSR: SET (UK); Asia: TR.

Chloromyia formosa (Scopoli, 1763): 2 ♂♂, Syria, # 4 b, Kassap, 20.V.2008, CP, RPM, RZ. Distribution: Europe from Scandinavia to P, E, I and GR; USSR: CET; SET; TC, WS, ES; Asia: Turkey; North Africa: Morocco, Algeria, Tunisia; Nearctic Region (introduced).

Family Nemestrinidae

Family with Jurassic fossil representatives which populate very sunny dry biotopes also today, as their ancestors (Mostovski, 1998). The 81 Palaearctic species are endoparasite for Acridoidea and Scarabaeidae, controlling numerically their populations (Richter, 1988).

Neorhynchocephalus tauscheri (Fischer, 1812): Turkey, 1 ♂, # 50 o, Kahmaranmaraş, 1.VI.2008, RPM. Distribution: Europe, Minor Asia, Turkey, Iran. A rare, northern mediterranean turanic species. The oldest reports from the western range and from Turkey are from the end of the 19th century and the beginning of the 20th

one. It can be considered endangered and it is proposed for the „Red Book” (Narchuk, 2007). It is the most interesting species in this systematic list.

Family Mythicomyiidae

• *Platypygus melinoproctus* Loew, 1873: 1 ♂, # 50 o, Turkey, Kahramanmaraş, 1.VI.2008, CP. Distribution: Palaearctic: Armenia, Azerbaijan, Egypt, Iran, Italy, Syria, Tajikistan, Turkmenistan (Evenhuis, 2007). *New record for Turkish fauna.*

Family Phthiriidae

Phthiria subnitens Loew, 1846: Turkey, 2 ♂♂, # 50 d, Kahramanmaraş, 1.VI.2008, RZ. Distribution: Europe: I, AL, GR, YU, R; USSR: SET, TC; Asia: Turkey, Iran.
P. vagans Loew, 1846: Turkey, 1 ♂, 1 ♀, # 50 o, Kahramanmaraş, 1.V.2008, CP. Distribution: Europe: WE, F, H, R, Yu, GR; USSR: south part of NET, CET, SET, TC, mountains of SMA; Asia: Israel, Turkey, Iran.

Family Bombyliidae

* *Exoprosopa jacchus* (Fabricius, 1805): Turkey: 1 ♀, # 14, Bergama (Bakir Çayı River), 1.VIII.2006, N: 39°07'12'', E: 027°11'27'', CP; 2 ♂♂, # 52, Burhanlı, 7.VIII.2006, CP, N: 40°17'27'', E: 026°30'47''. Distribution: Europe: F, I, A, Yu, GR, CS, H, BG; USSR: SET, TC, SMA (Tu, Ki); Asia: Arabic States, Israel, Turkey, Iran; North Africa: Algeria, Morocco, Tunisia, Egypt.

* *Heteralonia megerlei* (Meigen, 1820): Turkey, 1 ♀, # 51, Troia Citadel, 7.VIII.2006, CP, RPM. Distribution: Europe: from E to BG; USSR: SET, TC, SMA; Asia: Arabic States, Israel, Turkey, Iran, Afghanistan; North Africa: Algeria, Libya, Egypt, Tunisia; Mauritania to Sudan.

Family Dolichopodidae

• *Asyndetus latifrons* (Loew, 1857): Turkey: 1 ♀, # 18, Efes, 2.VIII.2006, CP, N: 37°56'44'', E: 027°20'31''; 3 ♂♂, 3 ♀♀, # 23, Buharkent, 4.VIII.2006, CP, AS; N: 37°54'45'', E: 028°43'43''; Syria: 1 ♂, # 30, Arrakka, 26.V.2008, CP, N: 35°55'37'', E: 038°58'48''. Distribution: Europe (except North, including Bulgaria and Romania); South Russia: Krasnodar; South Ural, North Kazakhstan; Orient (Negrobov, 1991; Grichanov, 2007). *New record for Turkey and Syria.*

• *Diaphorus vitripennis* Loew, 1859: Turkey, 1 ♂, 1 ♀, # 23, Buharkent, 4.VIII.2006, CP. Distribution: A, F, CH, I, P, R, Russia: Krasnodar, Orenburg Region; Asia: Kazakhstan, Uzbekistan, Afghanistan; North Africa: Algeria (Negrobov, op.cit., Grichanov, op. cit.). *New record for Turkey.*

Dolichopus griseipennis Stannius, 1831: Turkey: 1 ♂, # 52, Sinop, N: 42°00'29'', E: 034°57'35'', altitude: 76 m., 3.VI.2008, GB. Distribution: Europe: North to South (including Cyprus), Asia: Turkey, Israel, ? Armenia, Georgia; Russia: Adygea, Krasnodar; North Africa: Morocco, Algeria, Tunisia (Negrobov, op. cit., Grichanov, op. cit.).

• *Orthochile nigrocoerulea* Latreille, 1809: Turkey: 1 ♂, # 50 o, Kahramanmaraş, 1.VI.2008, CP; Syria: 1 ♂, # 4 b, Kassap, 20.V.2008, CP, RPM, RZ. Distribution: Europe: A, S, GB, F, YU, PL, H, I, E, BG, GR; Asia: Turkey; Israel, North Africa: Tunisia, Algeria (Negrobov, op. cit.; Grichanov, op. cit.). *New record for Syria.*

? *Hydrophorus praecox* (Lehmann, 1822): Syria: 21 ♂♂, 19 ♀♀, # 40, As Sikhnekh, 30 km East of Palmyra, altitude: 446 m, 27.V.2008, CP, N: 34°38'53'', E: 038°33'07''. Distribution: Azores, Canary Islands, Europe including Romania, Bulgaria, Greece (incl. Crete, Cyprus); North Aegean; Ukraine (Crimea, Kerson, Odessa); Abkhazia; South Russia (Kabardino - Balkaria, Krasnodar, Stavropol) and Est, to the Maritime Territory, Asia: Turkey, Israel, Iraq, Iran, India, China, Taiwan; Africa: Cap Verde Is, Egypt; North and South America; Australia; Oceania; New Zealand (Negrobov, op.cit.; Grichanov, op. cit.). *New record for Syria*.

* *Rhaphium appendiculatum* Zetterstedt, 1849: Turkey: 1 ♂, # 14, Bergama, 1.VIII.2006, CP. Distribution: Europe: From North to South, including Greece, Ukraine, Abkhazia, South Russia, Ural; Asia: Turkey, Iran, Afghanistan; North Africa: Morocco, Algeria; St. Helena Is (? introduced) (Negrobov op. cit.; Grichanov op. cit.; Pârvu & Popescu - Mirceni, 2006).

? *Sciapus albifrons* (Meigen, 1830): Turkey: 1 ♂, # 23, Buharkent, 4.VIII.2006, CP, AS. Distribution: Europe: B, NL, D, F, A, PL, CS, R, H, Ukraine (Kherson); USSR: NET (Leningrad Region), CET (Est, Rs), SET; Asia: „Palestine” (Negrobov, op. cit.; Grichanov, op. cit.). *New record for Turkey*.

* *Syntormon pallipes* (Fabricius, 1794): Turkey: 1 ♂, # 14, Bergama, 1.VIII.2006, CP. Distribution: all Europe including Ukraine; Georgia, Abkhazia, South Russia; Asia: Turkey, Israel, Iran, Afghanistan, China; North and Tropical Africa (Negrobov, op. cit.; Grichanov, op. cit.; Pârvu & Popescu - Mirceni, op. cit.).

Family Syrphidae

* *Episyrphus balteatus* (De Geer, 1776): Turkey: 3 ♂♂, # 50 o, Kahmaranmaraş, 1.VI.2008, CP; Syria: 13 ♂♂, # 10 c, Saladin Citadel, 23.V.2008, CP. Distribution: Europe, Asia (including Turkey, Syria), North Africa, Oriental Region, Australia.

* *Melanostoma mellinum* (Linnaeus, 1758): Turkey: 1 ♀, # 4, Küçükuyu, N: 39°31'49'', E: 026°30'58'', 30.VII.2006, CP; 1 ♀, # 14, Bergama (Bakir Çay river), 1.VIII.2006, RPM; 1 ♀, # 23, Buharkent, 4.VIII.2006, RPM; Syria: 1 ♀, # 10 b, Saladin Citadel, 23.V.2008, RPM. Distribution: Europe, Asia (including Turkey and Syria), North Africa, Nearctic.

Pelecocera tricincta Meigen, 1822: Turkey: 1 ♀, # 53, Zaviye, N: 47°53'01'', E: 034°33'47'', altitude: 82 m, 3.VI.2008, RPM. Distribution: Europe; USSR: CET, TC, CZ, ES. Mentioned for the first time in South West - Anatolia by Saribiyik & Hasbenli (2006).

Ceriana conopsoides (Linnaeus, 1758): Turkey: 1 ♀, # 14, Bergama, 1.VIII.2006, CP. Distribution: Europe, USSR: CET, SET, TC, WS, ES, FE; Asia: China; North Africa: Algeria. Reported for Turkey by Saribiyik (2001).

Eristalinus (s. str.) *sepulchralis* (Linnaeus, 1758): Turkey: 1 ♀, # 14, Bergama, 1.VIII.2006, CP. Distribution: Europe, Asia, including Syria and Turkey (Saribiyik, 2003), North Africa, Oriental Region.

E. (Eristalodes) taeniops (Wiedemann, 1818 ?): Syria: 1 ♂, # 10 c, Saladin Citadel, 23.V.2008, CP; Turkey: 1 ♂, # 34, Tekirova, 16.VII.2005, CP; 2 ♂♂, 2 ♀♀, # 42, Patara (Ova Gölü), 17.VII.2005, CP; 1 ♂, # 53, Köyceğiz Gölü, 19.VII.2005, CP, 1 ♂, # 66, Yenifoça, 23.VII.2005, CP; 1 ♀, # 87, Kanlı Dere Koprusu, 29.VII.2005, CP. Distribution: Europe, Asia (Turkey, Lebanon, Israel, Syria), North Africa, India, Oriental Region (Ghahari et al., 2008).

- * *Eristalis (Eoseristalis) arbustorum* (Linnaeus, 1758): 2 ♂♂, Turkey, # 53, Zaviye, 3.VI.2008, RPM. Distribution: Holarctic and Oriental Regions.
- * *Eristalis* (s. str.) *tenax* (Linnaeus, 1758) Turkey: 1 ♀, # 53 q, Kahramanmaraş, 1.VI.2008, GS. Distribution: cosmopolitan.
- H.* (s. str.) *trivittatus* (Fabricius, 1805): Turkey: 1 ♀, # 14, Bergama, 1.VIII.2006, CP. Distribution: Europe, Asia, including Turkey (Diricks, 1993).
- ? *Sphaerophoria laurae* G. de Tiefenau, 1989: Turkey: 1 ♀, # 53, Zaviye, 3.VI.2008, RPM. Distribution: Alpes, Pyrennees, Scandinavie, Spain (Gérone), Romania (Ciucas Mountains) (Diricks, op. cit.; Brădescu, 1991). *New record for Turkey.*
- * *S. rueppelli* (Wiedemann, 1830): Turkey: 1 ♀, # 2, Küçükuyu, 30.VII.2006, CP; 1 ♀, 2008, CP. Distribution: Europe; Asia: Syria, Afghanistan, Mongolia, China, Korea; North Africa. From Turkey is mentioned in Diricks (op. cit.) and Saribiyik (2003).
- * *S. scripta* (Linnaeus, 1758): Syria: 14 ♂♂, # 10 c, Saladin Citadel, 22.V.2008, CP. Distribution: Europe, Asia (incl. Syria and Turkey), North Africa, Nearctic and Oriental Region.
- * *Syritta pipiens* (Linnaeus, 1758): Turkey: 2 ♂♂, # 4, Küçükuyu, 30.VII.2006, SG, RZ; 1 ♂, # 18, Efes, N: 37°56'44'', E: 027°20'31'', 2.VIII.2006, RPM, CP; 1 ♂, # 20, Koruçuk, N: 37°50'41'', E: 029°08'29'', 3.VIII.2006, RPM; 7 ♂♂, # 23, Buharkent, 4.VIII.2006, CP, AS; 6 ♂♂, 4 ♀♀, # 43, Yenifoça, 5.VIII.2006, CP. Distribution: Europe, Asia (incl. Turkey), North Africa, Nearctic and Oriental Region.

Family Tephritidae

- * *Urophora solstitialis* (Linnaeus, 1758): Syria: 1 ♀, # 4 b, Kassap, 20.V.2008, RPM; 7 ♂♂, 3 ♀♀, # 10 c, Saladin Citadel, 23.V.2008, CP; Turkey: 1 ♂, # 52, Sinop, 3.VI.2008, RPM. Distribution: Europe, USSR: NET, CET, SET, TC, CZ; Asia: Iran, North Africa. Reported also by us from Turkey (Pârva & Popescu - Mirceni, 2006).
- * *Acanthiophilus helianthi* (Rossi, 1790): Syria: 1 ♀, # 4 b, Kassap, 20.V.2008, CP, RPM; 1 ♀, # 10 a, Saladin Citadel, 22.V.2008, RZ, GS. Distribution: Europe; Asia: Turkey, Afghanistan, Iran, Israel, Mongolia, Pakistan, India, Thailand; North Africa.
- * *Campiglossa producta* (Loew, 1844): Turkey: 3 ♂♂, # 52, Sinop, 3.VI.2008, RPM. Distribution: Europe, USSR, Asia: Turkey, Israel, Iran, Afghanistan, China; North Africa.
- Sphenella marginata* (Fallén, 1814): Syria: 2 ♂♂, 1 ♀, # 10 a, Saladin Citadel, 22.V.2008, CP. Distribution: Europe, Asia (from Near East and Turkey, to Siberia); North Africa (after Kütük, 2008).
- * *Trupanea amoena* (Frauenfeld, 1857): Syria: 1 ♂, # 4 b, Kassap, 20.V.2008, CP, RPM, RZ; 1 ♀, # 10 c, Saladin Citadel, 23.V.2008, CP; Turkey: 2 ♀♀, # 20, Koruçuk, 3.VIII.2006, RB, SG; 2 ♂♂, # 43, Yenifoça, 5.VIII.2006, CP; 1 ♂, # 52, Burhanli (5 km South), 7.VIII.2006, CP. Distribution: Widespread in southern Palearctic Region (including Turkey), Ethiopia, Sri Lanka, Australia (after Kütük, 2008).

Family Sepsidae

Sepsis biflexuosa Strobl, 1893: Turkey: 1 ♂, # 50 o, Kahmaranmaraş, 1.VI.2008, CP; 1 ♂, # 23, Buharkent, 4.VIII.2006, CP. Distribution: Europe: GB, DK, S, F, E, B, D, DDR, PL, A, CS, H, R, I, ZU, GR, TR; Mongolia, North Africa, Nearctic Region, Hawaii.

* *S. flavimana* Meigen, 1826: Turkey: 1 ♂, # 19, Koruçuk, 3.VIII.2006, CP. Distribution: IR, GB, N, S, SF, PL. TR.

* *S. punctum* (Fabricius, 1794): Turkey: 1 ♂, # 14, Bergama, 1.VIII.2006, CP; 2 ♂, # 19, Koruçuk, 3.VIII.2006, SG. Distribution: Holarctic.

S. thoracica (Robineau - Desvoidy, 1830): Turkey: 1 ♂, # 20 m, Koruçuk, 2.VIII.2006, CP. Distribution: Palaearctic, Afrotropical, Oriental Regions, Hawaii.

? *Themira paludosa* Elberg, 1963: Turkey: 3 ♂♂, # 14, Bergama, 1.VIII.2006, RPM. Distribution: Estonia, Romania, Morocco (Zuska & Pont, 1984; Pârvu, 2005; Pârvu, Popescu - Mirceni & Zaharia, 2006).

Family Ephydriidae

* *Trimerina madizans* (Fallén, 1813): Turkey: 1 ♀, # 23, Buharkent, 4.VIII.2006, CP. Distribution: North and Central Europe, Turkey.

Notiphila (s. str.) *maculata* Stenhammar, 1844: Turkey: 2 ♂♂, # 23, Buharkent, 4.VIII.2006, CP, RPM. Distribution: Europe: S, SF, GB, C., Europe (Cogan, 1984), Romania (Pârvu, 2003).

* *N.* (s. str.) *nigricornis* Stenhammar, 1844: Turkey: 3 ♀♀, # 14, Bergama, 1.VIII.2006, CP. Distribution: widespread N. and Central Europe, Turkey, China (N.E. Tibet).

• *Hyadina guttata* (Fallén, 1813): Turkey: 1 ♂, # 1, Bergama, 1.VIII.2006, CP. Distribution: widespread Europe (incl. Romania) Madeira, Azores, Canary Is. (Cogan, 1984). *New record for Turkey.*

* *Parydra* (s. str.) *cognata* Loew, 1860: Turkey: 1 ♂, # 23, Buharkent, 4.VIII.2006, CP. Distribution: Europe: I, E, H, R, BG; Asia: Turkey (Cogan, op. cit.; Pârvu & Popescu- Mirceni, 2006).

* *P.* (s. str.) *quadripunctata* (Meigen, 1830): Turkey: 1 ♀, # 14, Bergama, 1.VIII.2006, CP. Distribution: widespread Europe; Asia: Turkey, Afghanistan, Japan (Pârvu & Popescu - Mirceni, 2006).

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DATE DISTRIBUȚIONALE PRIVIND UNELE BRAHICERE (DIPTERA)
EST MEDITERANEENE

[Rezultatele Expediției „Euphrates” - 2008, în Turcia și Siria]

REZUMAT

În cadrul proiectului „Contribuții românești la cercetarea faunei mediteraneene”, proiect propriu al Muzeului Național de Istorie Naturală „Grigore Antipa” (București), în colaborare cu Societatea de Explorări Oceanografice și Protecția Mediului Marin „Oceanic Club” din Constanța și ca etapă în redactarea tezei de doctorat a primului autor, intitulată „Contribuții la studiul sistematic și

zoogeografic al unor diptere brahicerice din sectoarele sudic și estic al subregiunii mediteraneene”, se prezintă date distribuționale pentru 50 de specii (11 familii), din Turcia și Siria, colectate în trei expediții: „Taurus” - 2005, „Focida” - 2006 și „Euphrates” - 2008, în Turcia și Siria. Nouă specii sunt noi semnalări în fauna țărilor respective iar nemestrinidul *Neorhynchocephalus tauscheri* este o raritate propusă pentru Cartea Roșie a dipterelor din această zonă sud-est mediteraneană.

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