

DATA ABOUT FAMILY DOLICHOPODIDAE (DIPTERA) IN ROMANIA I

CORNELIU PÂRVU

On présente les résultats de la détermination d'un matériel (166 spécimens) des collections du Muséum d'Histoire naturelle « Grigore Antipa » de Bucarest. On procède à une synthèse de toutes les données de la littérature ancienne qui mentionne 119 espèces sur le territoire de la Roumanie. Etant donné que des 30 espèces trouvées dans le matériel, 13 espèces et un genre n'ont pas été signalés jusqu'à présent en Roumanie le nombre des espèces connues est porté maintenant à 132.

The first records of this Dipteran family in Romania are sporadic, being made by foreign entomologists.

With a view to facilitating the study of these insects so little known in our country, I present below the situation of the data cited in the old literature, trying to bring up-to-date both the species designations and the names of the localities.

The material that I identified in the collections of the "Grigore Antipa" Natural History Museum gathers 30 species, 17 of which have been mentioned in the literature while 13 species and one genus are new for the fauna of Romania.

In 1872, Mocsáry mentioned 5 species of Dolichopodidae from the West of the country (Oradea, Beliu, Tinca); a year later, Kowarz (1873) gave a list of 78 species from Herculane and from the Danube bank, from Cazane to Drobeta-Turnu Severin (Mehedinți County).

In 1876, Frivaldszky mentioned, among other Dipterans, 2 species of Dolichopodidae from Baziaș and Carașova (Caraș-Severin County); Fleck (1904) recorded a species from Azuga (Prahova County).

In two papers of 1927 and 1938, Parent (after Negrobov, 1972, 1975) mentioned 2 species from the Southern Carpathians; in the fascicle dedicated to the Dolichopodidae of France, Parent (1938) mentioned 6 more species from Transylvania.

The most recent paper including data on 7 species from Banat and the surroundings of Sibiu was written by Móczár (1952).

My information are essentially based on Thalhhammer's (1918) synthesis, in which he recorded 112 species from 19 localities, most of them

originating in Mehadia (Caraş-Severin County) (77 species), in the surroundings of Sibiu (32 species) and in Orşova (Mehedinţi County) (28 species).

I give below a map showing the distribution of the Dolichopodidae in Romania (Fig. 1). On this map, Δ indicates the localities already mentioned in the literature and \bullet indicates new collecting localities.

The figures from the map are explained in the list of localities where the counties are specified between parentheses. The same figures from the map are used in the text for drawing up the list of species.

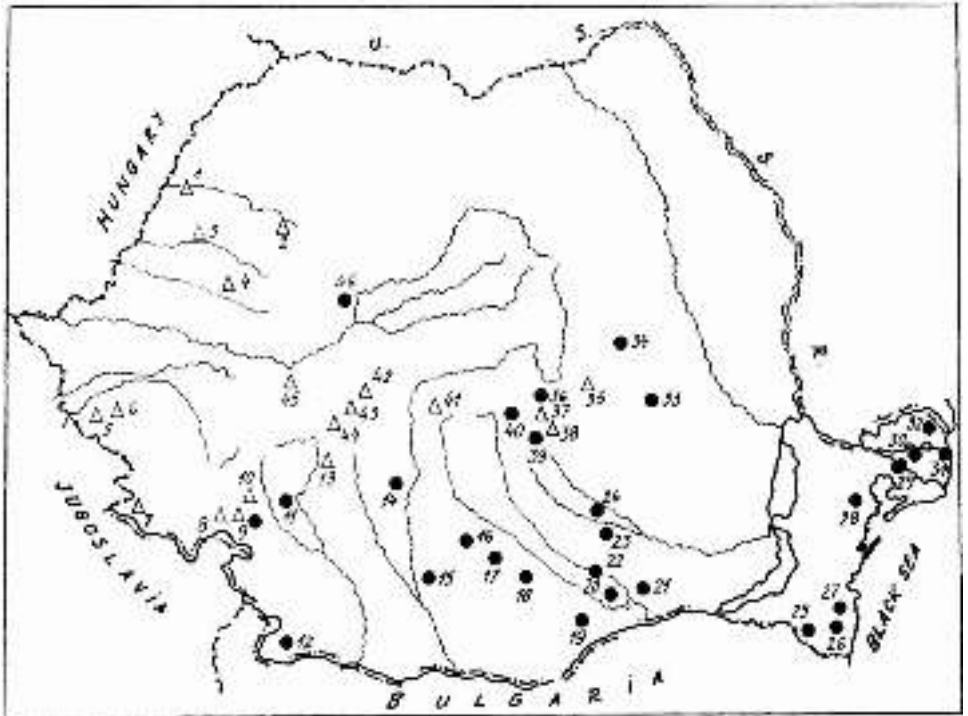


Fig. 1. The distribution of the Dolichopodidae in Romania according to the data of the literature (Δ) and of the studied material (\bullet).

In order to bring the nomenclature up-to-date I consulted the papers of Bezzi (1903), Stackelberg (1930—1941), Negrobov and Stackelberg (1969) and Olejnicek (1974), the species being listed following the order of the subfamilies; the species mentioned in the literature are accompanied by their collecting localities while those that I studied are accompanied by extra information (collecting date, elements of morphology, etc.).

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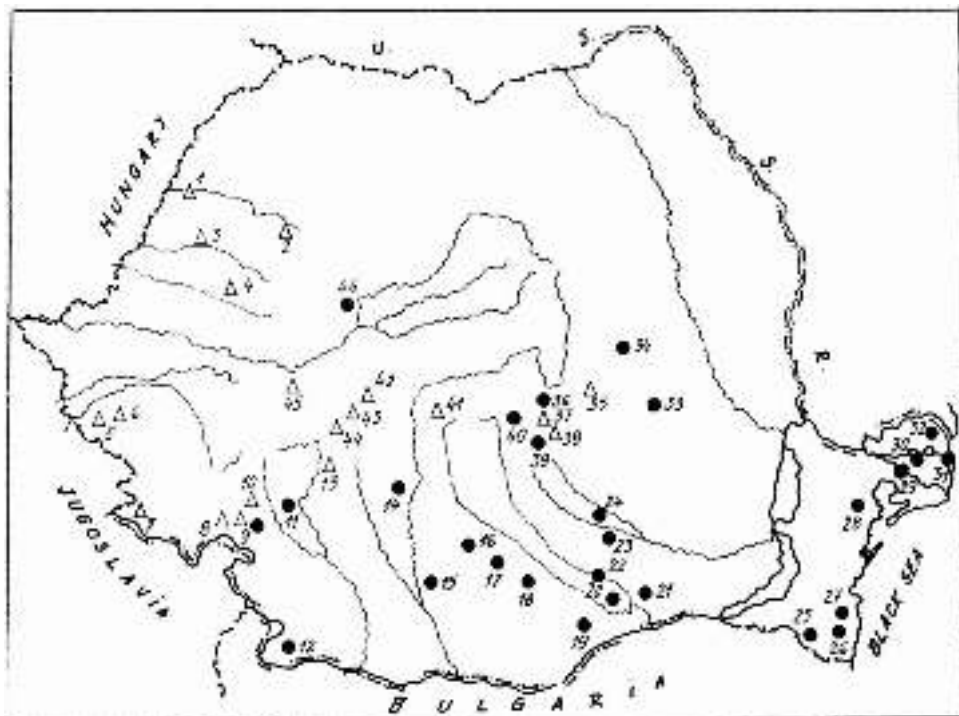


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- | | |
|---|---|
| 1. Oradea (Bihor) | 25. Hagiieni (Constanța) |
| 2. Vadu Crișului (Bihor) | 26. Limanu (Constanța) |
| 3. Tinca (Bihor) | 27. Eforie (Constanța) |
| 4. Beliu (Arad) | 28. Enisala (Tulcea) |
| 5. Secășeni (Caraș-Severin) | 29. Murighiol (Tulcea) |
| 6. Carașova (Caraș-Severin) | 30. Crișan (Tulcea) |
| 7. Baziaș (Caraș-Severin) | 31. Sulina (Tulcea) |
| 8. Orșova (Mehedinți) | 32. C. A. Rosetti (Tulcea) |
| 9. Herculane (Caraș-Severin) | 33. Tulnici (Vrancea) |
| 10. Mehadia (Caraș-Severin) | 34. Slănic Moldova (Bacău) |
| 11. Căzănești (Mehedinți) | 35. Covasna (Covasna) |
| 12. Poiana Mare (Dolj) | 36. Dîrste (Brașov) |
| 13. Oașa, lake and chalet in Parîng
Mountains. | 37. Bucegi Mountains |
| 14. Olănești (Vâlcea) | 38. Azuga (Prahova) |
| 15. Seaca (Olt) | 39. Sinaia (Prahova) |
| 16. Rîca (Argeș) | 40. Bolboci, chalet in Leaota
Mountains |
| 17. Lungulețu (Dimbovița) | 41. Negoii, peak in Făgăraș
Mountains |
| 18. Crevedia (Giurgiu) | 42. Sibiu (Sibiu) |
| 19. Comana (Giurgiu) | 43. Orlat (Sibiu) |
| 20. Frumușani (Giurgiu) | 44. Cibin Mountains |
| 21. Budești (Călărași) | 45. Forest range "Donnea", at 12
Km S.—S. E. from Cugir (Alba) |
| 22. București | 46. Aiud (Alba) |
| 23. Snagov (Ilfov) | |
| 24. Tinosu (Prahova) | |

SCIAPODINAE

Sciapus bellus Lw., 9; *S. flavicinctus* (Lw.), 41, 42; *S. longulus* (Fl.), 44; *S. platypterus* (F.), 6, 8, 37, 44.

S. albifrons (Mg.), 6 ♂♂, 32, 9.VI.1981, Leg. C. Pârnu. As compared to the diagnosis given by Parent (1938), in all specimens coxa II is not gray at its basis; in one specimen, coxa III shows a gray-brown tint on the outer side. Length: 5.5—6 mm.

Distribution: Central and Southern Europe.

New for Romania's fauna.

S. wiedemanni (Fl.), 1 ♂, 15, 2.VIII.1978, Leg. A. Ursu. As compared to the diagnosis given by Parent (op. cit.), the dorsal margin of article 3 of antenna is visibly more brown, particularly towards its basis, than the remainder of the article which is slightly brown. Length: 6 mm.

Distribution: Europe.

New for Romania's fauna.

DOLICHOPODINAE

Dolichopus arbustorum Stann., 35; *D. campestris* Mg., 8, 10; *D. discimanus* Wahl., 1, 2, 4; *D. festivus* Hal., 10; *D. griseipennis* Stann., 10; *D. linearis* Mg. 1; *D. nitidus* Fll., 10; *D. plumipes* (Scop.), 1, 10; *D. salictorum* Lw., 10; *D. signifer* Hal., 10; *D. simplex* Mg., 8; *D. unguatus* (L.), 1, 4, 10, 37, 38, 45; *D. cilifemoratus* Macq., 42, 2. ♀♀, 32, 9.VI.1981, Leg. C. Pârvu; *D. claviger* Stann. 8, 10, 24 ♂♂, 44 ♀♀, 32, 9—10.VI.1981, Leg. C. Pârvu; *D. excisus* Lw., 10, 1 ♂, 21, 23.VIII.1981, Leg. C. Pârvu; *D. latelimbatus* Macq. 1, 7, 10, 45, 3 ♂♂, 20, 23.VIII.1981, Leg. C. Pârvu; *D. nubilus* Mg., 10, 10 ♂♂, 4 ♀♀, 32, 6—12.VI.1981, Leg. C. Pârvu; *D. pennatus* Mg., 10, 1 ♂, 4 34, 15.VI.1979, Leg. A. Ursu, 1 ♂, 22, 26.VI.1979, Leg. A. Ursu, 1 ♂, 24, 2.V.1981, Leg. C. Pârvu.

D. longicornis Stann., 2 ♂♂, 36, 15—21.VIII.1979, Leg. A. Ursu, 1 ♀, 46, 14.VIII.1980, Leg. C. Vlad. As compared to the diagnosis given by Parent (op. cit.), all the specimens show two black hairs in the middle of the row of yellow hairs on the squama. Coxa III shows on the outer side a slight gray spot, darker at the insertion of thorn. Length: 4 mm.

Distribution: Europe.

New for Romania's fauna.

D. nigricornis Mg., 1 ♂, 40, 16.VII.1965, Leg. VI. Brădescu. Length: 6 mm.

Distribution: Europe, North America.

New for Romania's fauna.

D. pseudocilifemoratus Stack., 3 ♂♂, 17, 28.VI.1981, Leg. C. Pârvu. Length: 5,5 mm.

Distribution: Belgium, Czechoslovakia, Poland, Caucasus.

New for Romania's fauna.

Hercostomus aerosus (Fll.) 42, 45; *H. blepharopus* (Lw.), 10; *H. brevicornis* (Staeg.), 37, 42; *H. caudatus* (Lw.), 10; *H. celer* (Mg.) 10, *H. chetifer* (Walk), 10; *H. chrysozygos* (Wied.), 10; *H. conformis* (Lw.), 35, 44; *H. exarticulatus* (Lw.), 10; *H. fugax* (Lw.), 44; *H. fuscipennis* (Mg.), 8, 9; *H. germanus* (Wied.), 37, 44, 45; *H. inornatus* (Lw.), 10; *H. longiventris* (Lw.), 8, 10; *H. nigrilamellatus* (Macq.), 9, 10; *H. nigriplantis* (Stann.), 8, 10; *H. sahlbergi* (Zett.), 44; *H. vivax* (Lw.), 43, 44.

Poecilobothrus fumipennis (Stann.), 1; *P. regalis* (Mg.), 10;

P. bigoti (Mik), 2 ♂♂, 21, 5—7.VI.1979, Leg. M. Weinberg, 1 ♂, 18, 10.VII.1980, Leg. R. Serafim. Length: 5,5 mm.

Distribution: France, Caucasus.

New for Romania's fauna.

P. comitalis (Kow.), 3 ♂♂, 21, 5.VI.1979, Leg. M. Weinberg, A. Dumitru, 1 ♂, 16, 19.VIII.1980, Leg. C. Pârvu. Length: 4,5—6 mm.

Distribution: Central Europe, Sarepta (U.S.S.R.)

New for Romania's fauna.

P. nobilitatus (L.), 5 ♂♂, 33, 18.VII.1963, Leg. VI. Brădescu. Length: 4,5—6 mm.

Distribution: Europe.

New for Romania's fauna.

Sybystroma maerens Lw., 8, 9; *S. nodicornis* Mg., 10.

Hypophyllus crinipes (Staeg.), 8, 10; *H. discipes* (Ahr.), 9, 10; *H. sphenopterus* (Lw.), 8, 10.

Tachytrechus genualis Lw., 10; *T. insignis* (Stann.), 3, 8, 10; *T. notatus* (Stann.), 9; *T. ripicola* Lw., 10.

HYDROPHORINAE

Hydrophorus balticus (Mg.), 8, 41, 42, 44; *H. praecox* (Lehm.), 10;

H. viridis (Mg.), 1 ♂, 4 ♀♀, 34, 24.VIII.1978, Leg. A. Ursu, 1 ♂, 39, 11.VII.1958, Leg. M. Weinberg. Length: 3 mm.

Distribution: Europe and North Africa.

New for Romania's fauna.

Scellus notatus (F.), 1, 3; *Liancalus virens* (Scop.), 8, 10, 1 ♂, 13.X. 1969, Leg. A. Ursu.

Thinophilus flavipalpis (Zett.), 1 ♀, 31, 20–23.VII.1960, Leg. St. Negru, 2 ♀♀, 28, 23.VII.1964, Leg. A. Ursu, 1 ♂, 1 ♀, 30, 17.VIII.1967, Leg. I. Drăghia, 1 ♀, 29, 23.VIII.1975, Leg. A. Ursu. Length: 5.5–6 mm.

Distribution: Europe, North Africa, Central Asia.

New for Romania's fauna.

Th. ruficornis (Hal.), 1 ♂, 26, 8.VII.1963, Leg. A. Ursu. Length: 3 mm.

Distribution: Europe, Asia.

New for Romania's fauna.

MEDETERINAE

Medetera brevitarsa Par., 10; *M. dichæta* (Kow.), 43; *M. glaucella* (Kow.), 8; *M. micæca* Lw., 43; *M. muralis* Mg., 10; *M. diadema* (L.), 1 ♂, 27, 22.VI.1963, Leg. A. Ursu, 1 ♂, 1 ♀, 25, 24.–25.IX.1965, Leg. M. Weinberg, 1 ♀, 12, 7.IX.1981, Leg. C. Pârnu.

RHAPHIINAE

Rhaphium albifrons Zett., 10; *R. antennatum* (Carl.), 9; *R. caliginosum* Mg., 8, 10; *R. communæ* (Mg.), 10; *R. crassipes* (Mg.), 42, 45; *R. fascipes* (Mg.), 10; *R. fissum* Lw., 37; *R. laticorne* (Fll.), 10; *R. monotrichum* Lw., 10; *R. nasutum* (Fll.); 10; *R. pectinatum* (Lw.), 44; *R. penicillatum* Lw., 10; *R. praerosum* Lw. 10; *R. macrocerum* Mg., 10, 1 ♂, 5, 16.V.1965, Leg. A. Ursu, 3 ♂♂, 46, 14–18.VIII.1980, Leg. C. Vlad; *R. micans* Mg., 10, 44; 1 ♂, 21, 5–9.IX.1979, Leg. M. Weinberg, 1 ♂, 23, 17.VI.1973, Leg. X. Scobiola;

R. auctum Lw., 1 ♂, 19, 20.V.1982, Leg. C. Pârnu. As compared to the diagnosis, the apex of coxa II and III is yellow. Femur III shows a black spot only on apex, outer face. Length: 3–3.5 mm.

Distribution: Lapland, France, Czechoslovakia, Corsica.

New for Romania's fauna.

R. zetterstedti Par., 10 ♂♂, 46, 17–19.VIII.1980, Leg. C. Vlad, 3 ♂♂, 19, 14.VI.1981, Leg. C. Pârnu, 3 ♂♂, 20, 23.VIII.1981, Leg. C. Pârnu. A coxa

colour variability is remarked: the Aiud specimens show a completely yellow coxa I; coxa II with black basal third, apex being yellow on their outer face; coxa III slightly darkened at the basis, on the outer face. In Comana specimens, coxa I is yellow, with a dark tint at the basis, on the outer side; coxa II and III black, with only apex and inner face yellow.

Length: 3 mm.

Distribution: Europe.

New for Romania's fauna.

Syntormon macula Old.: Southern Carpathians; *S. pumilus* (Mg.), 10; *S. spicatus* Lw., 8, 10; *S. subinermis* Lw.: Transylvania; *S. sulcipes* (Mg.), 44; *S. zelleri* (Lw.), 10; *S. monilis* (Walk.), 10, 1 ♂, 19, 14.VI.1981, Leg. C. Pârvu; *S. pallipes* (F.), 10, 1 ♂, 11, 18.X.1974, Leg. A. Ursu, 3 ♂♂, 5 ♀♀, 9, 16.IX.1980, Leg. VI. Brădescu, 2 ♂♂, 1 ♀, 19, 14.VI.1981, Leg. C. Pârvu.

NEURIGONINAE

Neurigona pallida (Fll.), 8, 10; *N. suturalis* (Fll.), 10; *Oncopygyus distans* (Lw.), 8, 10; *O. magnificus* Lw., 8, 10.

DIAPHORINAE

Diaphorus hoffmannseggi Mg., 8, 10; *D. lugubris* Lw., 8, 10; *D. nigricans* Mg., 10; *D. oculatus* (Fll.), 10; *D. vitripennis* Lw., 44.

Nematoproctus distendes (Mg.), 1, 10.

Chrysotus cilipes Mg., 10, 42, 43; *C. cupreus* Macq., 10; *C. femoratus* Zett., 42, 43; *C. gramineus* (Fll.), 37, 43, 45; *C. laesus* (Wied.), 10, 42, 43, 44; *C. neglectus* (Wied.), 13, 43, 44, 45; *C. suavis* Lw., 10, 44, 45.

Argyra argentina (Mg.), 10; *A. auricollis* (Mg.), 42, 44; *A. atriceps* Lw.: Transylvania; *A. confinis* (Zett.), 10; *A. hoffmeisteri* (Lw.), 10; *A. leucocephala* (Mg.), 10; *A. diaphana* (F.), 10, 3 ♂♂, 25, 10.VI.1976, Leg. A. Ursu.

Leucostola vestita (Wied.), 10, 1 ♂, 19, 14.VI.1981, Leg. C. Pârvu.

Asyndetus latifrons (Lw.), 44.

SYMPYCNINAE

Campsicnemus lumbatus (Lw.), 10; *C. umbripennis* Lw., 10, 41, 42; *C. curvipes* (Fll.), 10, 44, 2 ♂♂, 46, 17—18.VIII.1980, Leg. C. Vlad, 1 ♂, 1 ♀, 17, 28.VI.1981, Leg. C. Pârvu; *C. varipes* Lw., 8, 10, 1 ♂, 34, 6.VIII.1978, Leg. A. Ursu.

Sympycnus brevimanus Lw., 44; *S. cirrhipes* (Walk.): Transylvania; *S. annulipes* (Mg.), 10, 2 ♂♂, 39, 2.VII.1976, Leg. A. Ursu.

Teuchophorus monacanthus Lw., 8, 10; *Acropsilus niger* (Lw.), 10, 44.

CONCLUSIONS

This survey lies at the bedrock of the development of the knowledge about the distribution of the Dolichopodidae in Romania.

Literature reveals that old foreign entomologists prospected the western part of the country and here and there the southern chain of the Romanian Carpathians, publishing 119 species. Unfortunately, most of these species originate mainly in two areas: Cerna Valley (south-west of Romania) and the surroundings of Sibiu (Southern Carpathians). The Dolichopodidae have not been studied so far in Wallachia, Moldavia and in a great part of Transylvania.

The study of the material that has been brought into focus in this paper allowed the identification of 13 more species new for Romania's fauna, enriching the knowledge concerning the distribution of 30 species in our country. Two of the species new for Romania belong to a genus that has not been recorded so far in our country's fauna, i.e., genus *Thinophilus* Wahlberg, 1844, that is most spread in the dry regions of the globe. Comparing the 132 species recorded so far in Romania to the data of a well studied Western European country — France, from which Parent (1938) mentions as probable 320 species, or to the data from the European area of the U.S.S.R., an equally well investigated area, from which Negrobov and Stackelberg (1969) mention more than 400 species, I would draw the conclusion that the number of species that could possibly exist in Romania has not attained its half. It is incumbent on the future research to considerably increase this number.

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DATE PRIVIND FAMILIA DOLICHOPODIDAE (DIPTERA)
ÎN ROMÂNIA (I)

REZUMAT

Se prezintă lista celor 119 specii semnalate în România în literatura de specialitate, completată cu datele rezultate în urma determinării unui material (166 ex.) existent în colecțiile Muzeului « Grigore Antipa » ce aparține

la 30 de specii; dintre acestea, următoarele 13 sînt noi pentru fauna țării: *Sciapus albifrons* (Mg.), *S. wiedemanni* (Fl.), *Dolichopus longicornis* Stann., *D. nigricornis* Mg., *D. pseudocilifemoratus* Stack., *Poecilobothrus bigoti* (Mik), *P. comitalis* (Kow.), *P. nobilitatus* (L.), *Hydrophorus viridis* (Mg.), *Thinophilus flavipalpis* (Zett), *Th. ruficornis* (Hal.), *Rhaphium auctum* Lw., *R. zetterstedti* Par.. De asemenea, genul *Thinophilus* Wahlb. este semnalat pentru prima dată în România.

Astfel, numărul total al speciilor de Dolichopodidae este la ora actuală în țara noastră de 132.

În capitoul concluzii se arată că semnalările de până acum au vizat numai vestul țării și Carpații Meridionali; în comparație cu fauna Franței, unde se cunosc 320 de specii și a părții europene a U.R.S.S. (peste 400 de specii), se arată că în România, numărul posibil de specii nu a ajuns la jumătate, noi cercetări putînd spori considerabil acest număr.

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