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A new species of *Polyodaspis* Duda, 1933 (Diptera: Chloropidae) from Romania with list of Chloropidae, collected in the country

Новый вид рода *Polyodaspis* Duda, 1933 (Diptera: Chloropidae) из Румынии и список видов Chloropidae, найденных в Румынии

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Ключевые слова: Diptera, Chloropidae, новый вид, новые фаунистические находки, Румыния.

Abstract. Results of identification of Chloropidae (Diptera) from Romania, deposited in the Natural History Museum (London, UK) is presented. Collection contains 24 species from 16 genera. A species *Polyodaspis maritima* Nartshuk, **sp. n.** is described as new and 5 species *Calamoncosis aprica* (Meigen, 1830), *Calamoncosis duinensis* (Strobl, 1909), *Aphanotrigonum inerme* Collin, 1946, *Conioscinella gallarum* (Duda, 1932) and *Chlorops meigenii* Loew, 1866 are recorded for the first time for the fauna of Romania.

Резюме. Представлены результаты определения материала Chloropidae (Diptera) из Румынии, хранящиеся в коллекции Британского Музея Естественной Истории в Лондоне. Коллекция включает 24 вида из 16 родов. Один вид, *Polyodaspis maritima* Nartshuk, **sp. n.**, описан как новый и 5 видов – *Calamoncosis aprica* (Meigen, 1830), *Calamoncosis duinensis* (Strobl, 1909), *Aphanotrigonum inerme* Collin, 1946, *Conioscinella gallarum* (Duda, 1932) и *Chlorops meigenii* Loew, 1866 – впервые приводятся для фауны Румынии.

Introduction

Fauna of Chloropidae of Romania was especially studied by F. Péterfi, who published description of several new species of *Meromyza* Meigen, 1830, a new species of *Elachiptera* Macquart, 1835 and some lists of species of the family [Péterfi, 1961, 1962, 1965, 1969a, 1969b, 1970, 1974, 1975]. Some species were recorded in publications of Loew [1873], Strobl [1897], Fleck and Sack [1904], Henrich [1917], Sachtleben [1939], Perju and Péterfi [1969], Dely-Draskovits [1983], Ismay [1985], Nartshuk [1999], Olenici and Olenici [2000] and Pârvu [2001]. I do not listed here numerous papers deal with agriculture pests *Oscinella frit* (Linnaeus, 1758) and *Chlorops pumilionis* Bjerkerander (1778) in Romania.

A new species is described in present paper and a list of species from Romania, deposited in the collection of the Natural History Museum in London is given. Material was collected in 1967 by B.H. and M.C. Cogan and in 1969 by B.H. and M.C. Cogan and R.I. and R. Vane-Wright (B.M. 1970 – 152). Names of collectors in following list are

missed. All species are identified by author.

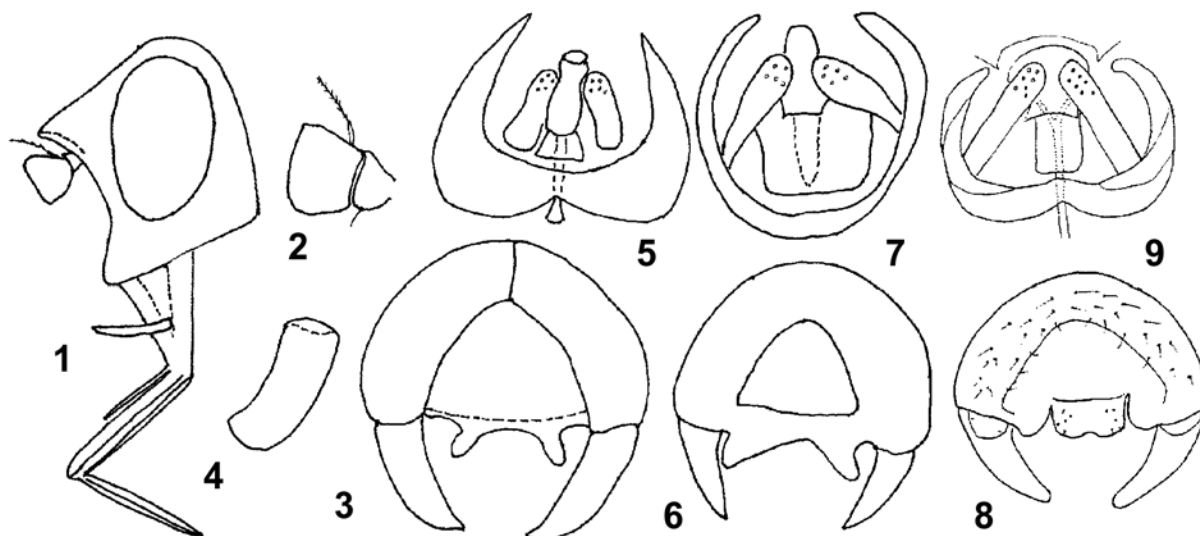
Total number of Chloropidae species for the fauna of Romania in all papers published by Péterfi (1961–1975) and other authors is 134. With 6 species added in this paper now total number includes 140 species from 36 genera. Species of the genera *Apotropina* Hendel, 1907, *Siphonellopsis* Strobl, 1906, *Rhodesiella* Adams, 1905, *Gaurax* Loew, 1863, *Lasiambia* Anonymous, 1937, *Speccafrons* Sabrosky, 1980, *Hapleginella* Duda, 1933, *Assuania* Becker, 1910, *Epichlorops* Becker, 1910, *Melanum* Becker, 1910 are expected to be found in Romania. Degree of investigation of the fauna of Chloropidae in Romania may be estimate as average. Beschovski [1985] recorded 138 species from 41 genera of Chloropidae in neighboring Bulgaria.

Polyodaspis maritima sp. n. (Figs 1–5)

Material. Holotype, ♂: Romania, near Histria, edge of L. Sinoe, 18–20.06.1969, low salinity maritime flats (B.M. and M.C. Cogan, R.I. and R. Vane-Wright). Paratypes: 48♂, 77♀, the same data. The holotype and most of paratypes are deposited in the Natural History Museum in London, 15 paratypes in Zoological Institute of Russian Academy of Sciences in St. Petersburg (Russia).

Diagnosis. The species is similar to *P. sulcicollis* (Meigen, 1830) and *P. palpata* Nartshuk, 2011 concerning strongly protruded gena and long proboscis. The new species is distinguished from both species by venation of wing with widened first basal cell and by structure of male epandrium. The new species is distinguished from *P. palpata* by the form of the postpedicel and colour of setae and hairs, from *P. sulcicollis* by absence of the membranous vesicula in the pregenital area and the structure of male genitalia (Figs 6, 7). The new species shares with *P. ruficornis* (Macquart, 1835) and *P. convexa* Ismay et Schulten, 2003 wide first basal cell, but is distinguished from both by the structure of scutellum with only a pair of subapical setae and from *P. convexa* by the flat frons without the swelling.

Description. Body entirely black shining. Frons nearly square, black or narrow brownish on anterior margin, covered silky hairs. Ocellar triangle black, smooth shine, extending 1/2–2/3 the length of frons. Facial keel narrow. Gena shine, below eye as broad as postpedicel, projecting beyond eye. Postpedicel small, with slightly marked upper angle. Arista shorter than frons, short pubescent. Eye bare. Proboscis long geniculate, labelle narrow. Palpus long black. Orbital setae short not distinguished from interfrontal hairs.



Figs 1–9. Species of the genus *Polyodaspis*, details of structure.

1 – head, laterally; 2 – antenna; 3, 6, 8 – male epandrium; 4 – surstylus; 5, 7, 9 – male hypandrium. 1–5 – *Polyodaspis maritima* sp. n.; 6–7 – *Polyodaspis sulcicollis* (Meigen, 1838); 8–9 – *Polyodaspis splendida* Nartshuk, 2012.

Рис. 1–9. Детали строения видов рода *Polyodaspis*.

1 – голова сбоку; 2 – антенна; 3, 6, 8 – гениталии самца, эпандрий; 4 – сурстий; 5, 7, 9 – гениталии самца, гипандрий. 1–5 – *Polyodaspis maritima* sp. n.; 6–7 – *Polyodaspis sulcicollis* (Meigen, 1838); 8–9 – *Polyodaspis splendida* Nartshuk, 2012.

Postocellar setae slightly convergent, longer than outer and inner verticals. All setae and hairs black.

Scutum and scutellum evenly covered with black hairs. Scutum shine, without pubescence, scutellum pubescent. Scutellum short semicircular. Apical setae longer than scutellum, a pair short subapical setae. Distance between apical setae equal distance between apical and subapical ones. Pleura shine without pubescence. Notopleural setae 1 + 2.

Wing hyaline. First basal cell widened in the middle. Veins pale except brown costal vein and R_1 . Transverse vein $r-m$ situated proximad of the middle of discoidal cell. Haltere clear. Legs black, except yellowish tarsi.

Abdomen black covered pale hairs. No membranous vesicula in pregenital area. Male genitalia as in Figs 3–5. Epandrium of usual form. Cerci small, widely separated, directed laterally, surstyli simple in form, broad. Hypandrium open. Postgonites small not divided. Phallus short membranose.

Body length 1–1.25 mm.

Etymology. The new species is named *maritima* as taken on low salinity maritime flats.

The new species may be included in the key of the Palaearctic species of *Polyodaspis* [Nartshuk, 2011] by following way.

1. First basal cell wide in the middle 2
- First basal cell not widened 3
2. Surface of frons flat without of a swelling before ocellar triangle 2a
- Surface of frons with a swelling before ocellar triangle ...
..... *P. convexa*
- 2a. Scutellum with many subapical setae on lateral edge.
Body length 2.5 mm *P. ruficornis*
- Scutellum with only a pair of subapical setae. Body length
1–1.25 mm 2b
- 2b. Anterior part of frons, face, anterior part of gena,
antenna, palpus and legs including coxa brownish
yellow. Proboscis short. Cerci in male genitalia fused
(Figs 8, 9) *P. splendida*
- Frons, gena, antenna, and palpus black. Proboscis long

geniculate (Fig. 1). Cerci in male genitalia separate (Figs 3–5) *P. maritima* sp. n.

List of species

Subfamily Oscinellinae

Aphanotrigonum inerme Collin, 1946

Material. Nr Histria edge of L. Sinoe, 18–20.06.1969, low salinity maritime flats, 9 sps.

Notes. Widely distributed Palaearctic species. Mesoxerophilous species, often on salinity localities. New species for the fauna of Romania.

Calamoncosis aprica (Meigen, 1830)

Material. Tulcea Braila Rd. nr. Tulcea, 20.06.1969, 1 sp.

Notes. European species. Hydrophilous species associated with Common reed (*Phragmites australis*). New species for the fauna of Romania.

Calamoncosis duinensis (Strobl, 1909)

Material. Costinesti N of Mangala, 18.06.1969, 1 sp.

Notes. Widely distributed Palaearctic species. Hydrophilous species associated with Common reed (*Phragmites australis*). New species for the fauna of Romania.

Conioscinella frontella (Fallén, 1820)

Material. Retezatului Mts above Hobita, 28.06.1969, 2500 m, boggy slope and wood, 1 sp.

Notes. Widely distributed Palaearctic species, occurs mostly in northern area. Mesophilous species.

Conioscinella gallarum (Duda, 1932)

Material. Cibinului Mts nr. Rasinari, 23.06.1969, 300 m, 1 sp.

Notes. European species. Mesophilous species. New species for the fauna of Romania.

Elachiptera cornuta (Fallén, 1820)

Material. Tulcea Braila Rd. nr. Tulcea, 20.06.1969, 1 sp.

Notes. Widely distributed Palearctic species. Hydrophilous species.

Elachiptera megaspis (Loew, 1858)

Material. Brasov, 13 km S, 11–12.08.1967, 1 sp.

Notes. South European and Mediterranean species. Hydrophilous species.

Incertella albipalpis (Meigen, 1830)

Material. Caransebes, 30.06.1969, flooded fields; Retezatului Mts above Hobita, 28.06.1969, 2500 m, boggy slope and wood. Total 3 sps.

Notes. Widely distributed Palearctic species. Mesophilous species.

Lasiochaeta pubescens (Thalhammer, 1898)

Material. Brasov, 13 km S, 11–12.08.1967; Tulcea Braila Rd nr. Issacea, 21.06.1969; Retezatului Mts above Hobita, 28.06.1969, 2500 ft. [762 m]; Retezatului Mts nr. Hobita Cabana, 29.06.1969, 4000 ft. [1220 m]; nr. Caransebes, 30.06.1969. Total 36 sps.

Notes. Widely distributed species in the Southern Europe and in Mediterranean area. Xerophilous species.

Oscinella frit (Linnaeus, 1758)

Material. Nr. Costinesti N of Mangalia, 18.06.1969, polluted ley; nr. Histria, edge of L. Sinoe, 18–20.06.1969, meadow; Tulcea Braila Rd nr. Tulcea, 20.06.1969; Tulcea Braila Rd nr. Issacea, 21.06.1969; Cibunului Mts nr. Rasinari, 23.06.1969; Caransebes, 30.06.1969. Total 161 sps.

Notes. Multiregional species. Mesophilous species.

Oscinella nitidissima (Meigen, 1830)

Material. Brasov, 13 km S, 11–12.08.1967; nr. Histria, edge of L. Sinoe, 18–20.06.1969, low saline maritime flats and meadow; Tulcea Braila Rd. nr. Tulcea, 20.06.1969; nr. Caransebes, 30.06.1969. Total 100 sps.

Notes. Holarctic species. Mesophilous species.

Oscinella pusilla (Meigen, 1830)

Material. Nr. Histria, edge of L. Sinoe, 18–20.06.1969, low salinity marine flats; Tulcea Braila Rd nr. Tulcea, 20.06.1969; Cibunului Mts nr. Rasinari, 23.06.1969, 300 m. Total 23 sps.

Notes. Widely distributed Palearctic species. Mesophilous species.

Trachysiphonella ruficeps (Macquart, 1935)

Material. Nr. Histria, edge of L. Sinoe, 18–20.06.1969, 2 sps.

Notes. Widely distributed Palearctic species. Mesophilous species.

Tricimba cincta (Meigen, 1830)

Material. Retezatului Mts above Habita, 2500 m, 21.06.1969, boggy slopes and wood; Cibunului Mts nr. Rasinari, 23.06.1969, 300 m. Total 4 sps.

Notes. Holarctic species. Mesophilous species.

Subfamily Chloropinae

Cetema myopinum (Loew, 1866)

Material. Nr. Caransebes, 30.06.1969, flooded fields, 1 sp.

Notes. Euroasian species. Mesophilous species.

Chlorops hypostigma Meigen, 1830

Material. Nr. Costinesti N of Mangalia, 18.06.1969, polluted ley; Tulcea Braila Rd. nr. Tulcea, 20.06.1969; Cibunului Mts nr. Rasinari, 23.06.1969, 300 m. Total 8 sps.

Notes. Palearctic species. Mesophilous species.

Chlorops meigenii Loew, 1866

Material. Retezatului Mts nr. Habita Cabana, 29.06.1969, 4000 ft. [1220 m], mature Pine forest, 1 sp.

Notes. Widely distributed Palearctic species, occurs mostly in northern area. New species for the fauna of Romania.

Diplotoxa messoria (Fallén, 1820)

Material. Tulcea Braila Rd. nr. Issacea, 21.06.1969, 2 sps.

Notes. Holarctic species. Hydrophilous species.

Diplotoxoides dalmatina (Strobl, 1900)

Material. Tulcea Braila Rd. nr. Tulcea, 20.06.1969; Tulcea Braila Rd nr. Issacea, 21.06.1969. Total 178 sps.

Notes. Widely distributed Palearctic species. Hydrophilous species.

Meromyza bohémica Fedoseeva, 1962

Material. Nr. Caransebes, 30.06.1969, flooded fields, 1 p.

Notes. European species. Mesophilous species.

Meromyza triangulina Fedoseeva, 1960

Material. Cibunului Mts nr. Rasinari, 23.06.1969, circa 3000 ft. [circa 915 m], meadow/woods; Cibunului Mts below Paltinis, 24–25.06.1969, circa 4000 ft. [circa 1220 m], Junceus around spring in sheep pasture; Retezatului Mts nr. Rasinari, 28.06.1969, circa 2500 ft. [circa 762 m], boggy slopes and woods. Total 4 sps.

Notes. Euroasian species. Mesophilous species.

Meromyza variegata Meigen, 1830

Material. Nr. Caransebes, 30.06.1969, flooded fields, 2 sps.

Notes. European species. Mesophilous species.

Pseudopachychaeta approximatonervis (Zetterstedt, 1838)

Material. Tulcea Braila Rd nr. Issacea, 21.06.1969, 1 sp.

Notes. Holarctic species. Hydrophilous species.

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