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New faunistic data on the Agromyzidae (Diptera) from the West Palaearctic Region

Nová faunistická data o Agromyzidae (Diptera) ze západopalearktické oblasti

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Abstract. New faunistic records for 63 West Palaearctic species of the family Agromyzidae are given. Two species are recorded as new from Bulgaria, 16 species from Croatia, one species from Cyprus, three species from the Czech Republic, one species from Egypt, nine species from France, one species from Hungary, 15 species from Israel, one species from Jordan, 11 species from Portugal, two species from Slovakia, nine species from Switzerland and six species from Tunisia. *Phytomyza clematisella* Spencer, 1986 and *P. kurilensis* Iwasaki, 2000 are recorded from Europe for the first time.

INTRODUCTION

The distribution of many species of European Agromyzidae is still little known, especially in southern Europe. The distribution of some West Palaearctic species was mapped by Černý & Merz (2006, 2007) and this paper summarizes data from seven collections, covering faunistic records for 12 countries in central and southern Europe, North Africa and the Near East. The currently known distribution of European species is summarized in the "Fauna Europaea" database (Martinez 2007); only records for countries that are not listed in the database are therefore given in this paper.

MATERIAL AND METHODS

All specimens were identified by the author. They are deposited in the following collections:
CMBP – private collection Miroslav Barták, Praha, Czech Republic;
CMCH – private collection Miloš Černý, Halenkovice, Czech Republic;
CPGR – private collection Paul Gatt, Rabat, Malta;
MEB – Museum of East Bohemia, Hradec Králové, Czech Republic;
MHNG – Muséum d'histoire naturelle, Genève, Switzerland;
TAU – Tel Aviv University, Israel;
ZMUC – Zoological Museum, University Copenhagen, Denmark.
Genera and species are arranged alphabetically in the two subfamilies Agromyzinae and Phytomyzinae.

LIST OF SPECIES

Subfamily Agromyzinae

Agromyza luteitarsis (Rondani, 1875)
Material examined. Switzerland: Valais, Leuk Pfynwald, 625 m a.s.l., 2 ♂♂, 4.iv.2007, B. Merz leg. (MHNG, CMCH).

Distribution. Europe: Austria, British Isles, Czech Republic, Denmark, Finland, France, Germany, Hungary, Italy, Lithuania, Norway, Russia, Slovakia, Spain, Sweden, Yugoslavia. First record from Switzerland.

Agromyza megalopsis Hering, 1933
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 3 ♂♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP, CMCH).
Distribution. Europe: Bulgaria, Czech Republic, France, Germany, Greece (Crete), Hungary, Poland, Slovakia, Yugoslavia. Africa: Egypt. Asia: Cyprus, Turkey, Uzbekistan, Yemen. First record from Croatia.

Agromyza prespana Spencer, 1957
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 1 ♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP).
Distribution. Europe: Austria, British Isles, Bulgaria, Czech Republic, France, Germany, Hungary, Macedonia, Poland, Slovakia, Sweden, Switzerland, Yugoslavia. Asia: Turkey. First record from Portugal.

Agromyza pseudoreptans Nowakowski, 1967
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 2 ♂♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP, CMCH).
Distribution. Europe: Austria, Belgium, British Isles, Czech Republic, Denmark, Estonia, France, Germany, Greece, Hungary, Ireland, Italy, Lithuania, Netherlands, Norway, Poland, Russia, Slovakia, Sweden, Switzerland. Asia: Uzbekistan. Africa: Canary Islands. North America: Canada, United States. First record from Portugal.

Agromyza reptans Fallén, 1823
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 1 ♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP).
Distribution. Europe: Austria, Belgium, British Isles, Bulgaria, Czech Republic, Denmark, Estonia, France, Germany, Hungary, Ireland, Italy (including Sardinia), Latvia, Lithuania, Moldavia, Netherlands, Norway, Poland, Slovakia, Sweden, Switzerland. Asia: China, India, Japan, Turkey, North Korea. North America: Canada, United States. First record from Portugal.

Hexomyza sarothramni (Hendel, 1923)
Material examined. Israel: Kefar Shammay, 1 ♂, 5.v.1987, A. Freidberg leg. (TAU).
Distribution. Europe: Austria, British Isles, Czech Republic, France, Germany, Greece, Netherlands, Portugal, Sicily. Asia: Cyprus. First record from Israel.

Japanagromyza tephrosiae (de Meijere, 1917)
Material examined. Israel: W. Vatir, 1 ♂, 9.iii.1974, D. Furth leg. (TAU); Taba, 1 ♂, 27.iv.1974, A. Freidberg leg. (TAU).
Distribution. Europe: Spain. Africa: Egypt. Asia: India, Indonesia (Java). Australia. First record from Israel.

Melanagromyza albocilia Hendel, 1931
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 1 ♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP). Switzerland: Genève, Bernex-Signal, 500 m a.s.l., 2 ♂♂, 30.iv.2007, B. Merz leg. (MHNG).
Distribution. Europe: Austria, British Isles, Bulgaria, Czech Republic, Denmark, France, Germany, Hungary, Malta, Lithuania, Poland, Russia, Slovakia, Spain, Sweden. Africa: Canary Islands, Egypt. Asia: Israel, Russia, Uzbekistan. First records from Portugal and Switzerland.

Melanagromyza foeniculi Spencer, 1960
Material examined. France: 5 km N of Sété, 43°27′01″N/03°42′53″E, 1 ♂, 21.-23.v.2006, macchia and ruderal, pan traps, M. Barták leg. (CMBP).
Distribution. Europe: Spain. Asia: Cyprus. First record from France.

Ophiomyia beckeri (Hendel, 1923)
Material examined. CW Jordan: cca 20 km SW of Madaba, 31°38′0.63″N/35°41′8.83″E, 1 ♂, 26.v.2007, 400 m a.s.l., Z. Kejval leg. (CMBP).
Distribution. Europe: Albania, Andorra, Austria, Belgium, British Isles, Czech Republic, Denmark, Finland, France, Germany, Greece (Crete), Ireland, Lithuania, Malta, Poland, Portugal, Sicily, Slovakia, Spain (including Balearic Islands), Sweden, Switzerland, Yugoslavia. Africa: Canary Islands, Egypt, Madeira, Morocco, South Africa, Tanzania, Tunisia, Zimbabwe. Asia: India, Israel, Oman, Saudi Arabia, Turkey, Yemen. First record from Jordan.

Ophiomyia heracleivora Spencer, 1957
Material examined. Switzerland: Valais, Leuk Platten, 560 m a.s.l., 1 ♂, 5.iv.2007, B. Merz leg. (MHNG).
Distribution. Europe: British Isles, Czech Republic, Estonia, France, Germany, Lithuania, Poland, Slovakia, Spain, Yugoslavia. First record from Switzerland.

Ophiomyia labiatarum Hering, 1937
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 4 ♂♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP, CMCH). Switzerland: Genève, Bernex, Chante-Merle, 415 m a.s.l., 1 ♀, 30.iv.2007, B. Merz leg. (MHNG).
Distribution. Europe: Andorra, Austria, Belgium, British Isles, Bulgaria, Czech Republic, Finland, France, Germany, Hungary, Lithuania, Poland, Slovakia, Sweden. Asia: Israel, Turkey. North America: Canada, United States. First records from Croatia and Switzerland.

Ophiomyia major (Strobl, 1900)
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 1 ♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP). France: Pyrénées Orientales, Can Baills, 10 km SW Thuir, 42°34′N/02°39′E, 610 m a.s.l., 2 ♂♂, 7.vi.2007, 2 ♂♂, 8.vi.2007, B. Merz leg. (MHNG, CMCH).
Distribution. Europe: Italy, Spain, Yugoslavia. Asia: Israel, Syria. First records from Croatia and France.

Ophiomyia melandryi de Meijere, 1924
Material examined. France: Pyrénées Orientales, Can Baills, 10 km SW Thuir, 42°34′N/02°39′E, 610 m a.s.l., 1 ♂, 8.vi.2007, B. Merz leg. (MHNG, CMCH).
Distribution. Europe: Andorra, Austria, British Isles, Czech Republic, Estonia, Germany, Italy, Lithuania, Netherlands, Poland, Slovakia, Sweden, Switzerland. Africa: Morocco. Asia: Cyprus. First record from France.

Ophiomyia orbiculata (Hendel, 1931)
Material examined. Cyprus: Lefkara, Rt. E150, 34°51.6′N/33°18.6′E, 600 m a.s.l., 1 ♂, 7.iv.2008, A. Freidberg leg. (TAU).
Distribution. Europe: Austria, Belarus, British Isles, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy (including Sicily), Lithuania, Norway, Poland, Slovakia, Romania, Russia, Spain, Sweden, Switzerland, Yugoslavia. Asia: Turkey, Uzbekistan. First record from Cyprus.

Ophiomyia pinguis (Fallén, 1820)
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 4 ♂♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP, CMCH).
Distribution. Europe: Austria, Belgium, British Isles, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Hungary, Italy, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland. Africa: Egypt. Asia: China, Israel, Tajikistan, Turkey, Uzbekistan. First record from Croatia.

Ophiomyia verbasci Černý, 1991
Material examined. France: Pyrénées Orientales, Can Baills, 10 km SW Thuir, 42°34′N/02°39′E, 610 m a.s.l., 1 ♂, 8.vi.2007, B. Merz leg. (MHNG, CMCH).
Distribution. Europe: Czech Republic. First record from France.

Subfamily Phytomyzinae

Amauromyza (***Cephalomyza***) ***monfalconensis*** (Strobl, 1909)
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 1 ♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP).
Distribution. Europe: Austria, British Isles, Croatia, Czech Republic, Denmark, Estonia, France, Germany, Hungary, Italy, Lithuania, Netherlands, Poland, Romania, Slovakia, Spain, Sweden, Switzerland, Yugoslavia. Asia: Uzbekistan. First record from Portugal.

Aulagromyza anomala (Strobl, 1893)
Material examined. Israel: Herzliyya, 1 ♂, 1.i.1982, MT, A. Freidberg leg. (TAU).
Distribution. Europe: Austria, Czech Republic, France, Germany, Slovakia. First record from Israel.

Aulagromyza discrepans (van der Wulp, 1871)
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 1 ♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP).

Distribution. Europe: Austria, Belgium, British Isles, Bulgaria, Czech Republic, France, Germany, Greece (Crete), Netherlands, Poland, Slovakia, Spain (including Balearic Islands), Switzerland. First record from Portugal.

Aulagromyza hamata (Hendel, 1932)
Material examined. Israel: Makhtésh Ramon, 1 ♂, 6.iv.1997; Tel Aviv dunes, 1 ♂, 26.iii.2000; Ruhama 3 km NW, 1 ♂, 11.iii.2000; Har Sagiv, 1 ♂, 19.iii.1988; Nahal Boger, 2 ♂♂, 6.iv.1992, all. A. Freidberg leg. (TAU, CMCH). Tunisia: Nefta, 1 ♂, 14.-16.iii.1986, Zool. Mus. Copenhagen Exp. (ZMUC).
Distribution. Europa: Greece (Crete). Asia: Turkey. First records from Israel and Tunisia.

Aulagromyza trivittata (Loew, 1873)
Material examined. Israel: Herzliyya, 1 ♂, 3.xii.1981, MT, A. Freidberg leg. (TAU).
Distribution. Europe: Andorra, Austria, Belarus, British Isles, Czech Republic, Denmark, Estonia, France, Germany, Greece, Hungary, Ireland, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Slovakia, Sweden, Switzerland. First record from Israel.

Calycomyza humeralis (von Roser, 1840)
Material examined. Israel: Antipatris, 1 ♂, 8.vi.1996, B. Merz & A. Freidberg leg. (MHNG); Hezliyya, hill, 32°11′N/34°49′E, 1 ♂, 7.iii.2008, A. Freidberg leg. (TAU); Kziot, 4.vii.1985, I. Nussbaum leg. (TAU); Rosh ha'Ayin, 1 ♂, 16.iv.1993, A. Freidberg leg. (TAU); Zikhron Ya´aqov, 1 ♂, 1.iv.1998, A. Freidberg leg. (TAU). Tunisia: Bizerte Ras Jebel, Ghar el-melh, 1 ♂, 17.v.1995, P. Gatt leg. (CMCH).
Distribution. Europe: Andorra, Austria, Belgium, British Isles, Bulgaria, Croatia, Czech Republic, Denmark, France (including Corsica), Germany, Hungary, Italy, Malta, Netherlands, Norway, Poland, Romania, Slovakia, Spain, Sweden, Switzerland, Yugoslavia. Africa: Cameroun, Ethiopia, South Africa. Asia: China, Cyprus, Iraq, Japan, Turkey, Uzbekistan. North America: Canada, United States (including Hawaii). Central and South America: Argentina, Brazil, Chile. Australia. First records from Israel and Tunisia.

Cerodontha (***Cerodontha***) ***denticornis*** (Panzer, 1806)
Material examined. Tunisia: Tabarka Nevza-Zouaraa, 1 ♂, 21.iii.2001, consolidates dunes, P. Gatt leg. (CMCH).
Distribution. Europe: Albania, Andorra, Austria, Belgium, British Isles, Bulgaria, Croatia (Dalmatia), Czech Republic, Denmark, Estonia, Finland, France (including Corsica), Germany, Greece, Hungary, Ireland, Italy (including Sicily), Lithuania, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Spain, Sweden, Switzerland, Ukraine, Yugoslavia. Africa: Azores, Canary Islands, Egypt, Madeira, Morocco. Asia: Afghanistan, China, Cyprus, India, Iraq, Israel, Japan, Nepal, South Korea, Taiwan, Turkey, Yemen. First record from Tunisia.

Cerodontha (***Cerodontha***) ***vandalitiensis*** Spencer, 1965
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 1 ♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP).
Distribution. Europe: Czech Republic, France, Russia, Spain. First record from Portugal.

Cerodontha* (*Dizygomyza*) *suturalis (Hendel, 1931)
Material examined. Switzerland: Genève, Bernex, Chante-Merle, 415 m a.s.l., 2♂♂, 3.iv.2005, B. Merz leg. (MHNG, CMCH); Genève, Bernex-Signal, 500 m a.s.l., 2 ♂♂, 30.iv.2007, B. Merz leg. (MHNG, CMCH); Graubűnden, S. Vittore-Rebberg, 320 m a.s.l., 1 ♂, 3.iv.2007, B. Merz leg. (MHNG); Ticino, Cadenazzo, Demanio, 210 m a.s.l., 2 ♂♂, 2.iv.2007, Gordola, Verzasca-Ufer, 205 m a.s.l., 7 ♂♂, 1.iv.2007, Magadino, Quartino, 205 m a.s.l., 3 ♂♂, 2.iv.2007, all B. Merz leg. (MHNG, CMCH).
Distribution. Europe: Albania, Andorra, Austria, Belgium, British Isles, Bulgaria, Czech Republic, Denmark, France, Germany, Hungary, Poland, Slovakia, Sweden, Yugoslavia. Asia: China, Cyprus, Japan. First record from Switzerland.

Cerodontha* (*Poemyza*) *atra (Meigen, 1830)
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 6 ♂♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP, CMCH); 2 km S of Senj, 42°58′26″N/14°55′13″E, 1 ♂, 18.v.2007, sweeping, seashore, M. Barták leg. (CMCH).
Distribution. Europe: Andorra, Austria, Belarus, Belgium, British Isles, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France (including Corsica), Germany, Hungary, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Yugoslavia. Asia: Japan, Uzbekistan. First record from Croatia.

Cerodontha* (*Poemyza*) *lyneborgi Spencer, 1972
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 1 ♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP). France: Prades, 10 km N of Montpellier near River, 43°41′59″N/03°51′14″E, 66 m a.s.l., 1 ♂, 26.v.2006, sweeping, M. Barták leg. (CMBP).
Distribution. Europe: Czech Republic, Hungary, Italy, Lithuania, Russia, Spain, Switzerland. Asia: Uzbekistan. First records from Croatia and France.

Cerodontha* (*Poemyza*) *spencerae Zlobin, 1993
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 1 ♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP).
Distribution. Europe: Belarus, Czech Republic, Estonia, Finland, Italy, Latvia, Lithuania, Poland, Russia, Slovakia, Switzerland. Asia: Kazakhstan. North America: Canada, United States. First record from Croatia.

Chromatomyia horticola (Goureau, 1851)
Material examined. Tunisia: Jendouba Oued Mellegue, 1 ♂, 11.v.1995, P. Gatt leg. (CMCH).
Distribution. Europe: Andorra, Austria, Belgium, British Isles, Bulgaria, Croatia (Dalmatia), Czech Republic, Denmark, Finland, France (including Corsica), Germany, Greece, Hungary, Ireland, Italy (including Sardinia and Sicily), Lithuania, Malta, Moldavia, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, Yugoslavia. Africa: Cameroun, Cape Verde Islands, Egypt, Ethiopia, Kenya, Madagascar, Morocco, South Africa. Asia: China, Cyprus, India, Israel, Japan, Nepal, North Korea, Russia (Kuril Islands), Saudi Arabia, South Korea, Thailand, Taiwan, Turkey, Yemen. First record from Tunisia.

Chromatomyia succisae (Hering, 1922)
Material examined. Israel: Sasa, 1 ♂, 27.iv.1984, A. Freidberg leg. (TAU).
Distribution. Europe: Andorra, British Isles, Denmark, France, Germany, Ireland, Italy, Lithuania, Netherlands, Poland, Spain, Sweden. Asia: Cyprus, Turkey, Uzbekistan. First record from Israel.

Chromatomyia syngenesiae Hardy, 1849
Material examined. Israel: Tiv´on, 1 ♂, 7.iii.1981, A. Freidberg leg. (TAU).
Distribution. Europe: British Isles, Croatia, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy (including Sardinia and Sicily), Netherlands, Poland, Portugal, Spain (including Balearic Islands), Sweden, Switzerland, Yugoslavia. Asia: Saudi Arabia. North America: Canada and United States. Australia, New Zealand. First record from Israel.

Liriomyza artemisicola de Meijere, 1924
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 1 ♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP). Slovakia: Abrod, 48°31′56″N/16°59′30″E, 150 m a.s.l., 2 ♂♂, 26.v.2007, wetland, sweeping, M. Barták leg. (CMBP, CMCH).
Distribution. Europe: Andorra, Austria, Belgium, British Isles, Czech Republic, Denmark, Finland, France (including Corsica), Germany, Ireland, Italy, Lithuania, Netherlands, Poland, Sweden, Switzerland. Asia: China, India, Japan, North Korea. First records from Croatia and Slovakia.

Liriomyza centaureae Hering, 1927
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 1 ♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP).
Distribution. Europe: Austria, British Isles, Czech Republic, Denmark, Estonia, France, Germany, Hungary, Italy, Lithuania, Norway, Russia, Slovakia, Spain, Sweden. Asia: Turkey. First record from Croatia.

Liriomyza congesta (Becker, 1903)
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 1 ♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP); 2 km S of Senj, 42°58′26″N/14°55′13″E, 2 ♂♂, 18.v.2007, sweeping, seashore, M. Barták leg. (CMBP, CMCH).
Distribution. Europe: Albania, Andorra, Austria, Belgium, British Isles, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy (including Sardinia), Latvia, Lithuania, Malta, Moldavia, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Yugoslavia. Africa: Canary Islands, Egypt, Madeira. Asia: China, Cyprus, India, Israel, Japan, Oman, South Korea, Turkey, Yemen. First record from Croatia.

Liriomyza dracunculi Hering, 1932
Material examined. France: Pyrénées Orientales, Can Baills, 10 km SW Thuir, 42°34′N/02°39′E, 610 m a.s.l., 1 ♂, 8.vi.2007, B. Merz leg. (MHNG).
Distribution. Europe: Denmark, Germany, Lithuania, Norway, Poland, Sweden, Switzerland. First record from France.

Liriomyza ptarmicae de Meijere, 1925
Material examined. Switzerland: Ticino, Biasca-Loderio, 350 m a.s.l., 6 ♂♂, 16.v.2006, B. Merz leg. (MHNG, CMCH); Ticino, Gordola, Verzasca-Ufer, 205 m a.s.l., 1 ♂, 15.v.2006, B. Merz leg. (MHNG).
Distribution. Europe: Andorra, Belarus, British Isles, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Italy (including Sicily), Latvia, Lithuania, Netherlands, Norway, Poland, Sweden. Asia: China, Japan. North America: Canada, United States. First record from Switzerland.

Liriomyza taraxaci Hering, 1927
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 1 ♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP).
Distribution. Europe: Austria, Belarus, Belgium, British Isles, Bulgaria, Czech Republic, Denmark, Estonia, France, Germany, Hungary, Ireland, Italy, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland. North America: Canada, United States. First record from Portugal.

Metopomyza laeta Sasakawa, 1955
Material examined. Czech Republic: Moravia mer., Břeclav distr., Lanžhot 5 km S "Ranšpurk Natural Reserve", 48°40′46″N/16°57′05″E, 150 m a.s.l., 1 ♀, 11.v.2008, edge of brook, M. Černý leg. (CMCH); Lanžhot 10 km S "Košárské louky", 48°37′27″N/16°55′48″E, 151 m a.s.l., 1 ♂, 11.v.2008, meadow, M. Černý leg. (CMCH); Pohansko 2 km S, 48°43′44″N/16°53′36″E, 150 m a.s.l., 1 ♀, 11.v.2008, meadow near brook, M. Černý leg. (CMCH).
Distribution. Europe: France, Germany. Asia: Russia, Japan. First record from the Czech Republic.

Metopomyza scutellata (Fallén, 1823)
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 1 ♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP).
Distribution. Europe: Albania, Andorra, Belarus, British Isles, Czech Republic, Denmark, Estonia, France, Germany, Hungary, Italy, Latvia, Lithuania, Malta, Poland, Russia, Slovakia, Spain, Sweden, Switzerland, Yugoslavia. Asia: Kazakhstan, Kyrgyzstan, Russia, Tajikistan, Uzbekistan. First record from Croatia.

Metopomyza xanthaspis (Loew, 1858)
Material examined. Bulgaria: 20 km N Montana, 1 ♀, 16.v.1996, pasture, B. Mocek leg. (MEB).
Distribution. Europe: Andorra, Austria, Belgium, British Isles, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Italy, Latvia, Lithuania, Netherlands, Poland, Russia, Slovakia, Spain, Sweden, Switzerland. Asia: Kazakhstan, Russia. First record from Bulgaria.

Napomyza bellidis Griffiths, 1967
Material examined. Bulgaria: Sandanski, 1 ♂, 2.vii.1988, deciduous forest, B. Mocek leg. (MEB). Israel: AntiPatris, 2 ♂♂, 28.x.1985, I. Nussbaum leg. (TAU); N. Tavor, 2 ♂♂, 23.i.1982, A. Freidberg leg. (TAU).

Distribution. Europe: Andorra, Belgium, British Isles, Czech Republic, Finland, France, Germany, Greece, Hungary, Malta, Russia, Slovakia, Spain, Sweden, Switzerland. Africa: Azores. Asia: Kyrgyzstan, Tajikistan, Uzbekistan. First records from Bulgaria and Israel.

Napomyza cichorii Spencer, 1966
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 1 ♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP). Israel: Har Harif, 30°32′N/34°33′E, 1 ♂, 11.iv.2002, L. Friedman leg. (TAU); Har Hermon, 2000 m a.s.l., 2 ♂♂, 27.v.1986, A. Shlagman leg. (TAU); Herzliyya, 1 ♂, 9.v.1982, MT, 1 ♂, 16.iv.1982, MT, A. Freidberg leg. (TAU); Khispin, 1 ♂, 15.ii.1984, I. Nussbaum leg. (TAU); Shivta, 1 ♂, 8.xii.1980, A. Freidberg leg. (TAU).
Distribution. Europe: Andorra, Austria, Belgium, British Isles, Czech Republic, Estonia, Finland, France (including Corsica), Germany, Greece, Hungary, Italy, Lithuania, Netherlands, Russia, Spain, Switzerland, Ukraine. Africa: Morocco, Tunisia. Asia: Armenia, Russia (East Siberia, Far East). First records from Croatia and Israel.

Napomyza hirticornis Hendel, 1932
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 1 ♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP). Israel: Eim-Bogga, 1 ♂, 4.ii.1981, A. Freidberg leg. (TAU).
Distribution. Europe: Austria, British Isles, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Latvia, Lithuania, Poland, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine. Asia: China, Japan. First records from Croatia and Israel.

Phytoliriomyza arctica (Lundbeck, 1901)
Material examined. Israel: ,En Gedi, Nahal, Arugot, 1 ♂, 31.v.2000, B. Merz leg. (MHNG); Har Horesha, 1 ♂, 17.iii.1995, A. Freidberg leg. (TAU).
Distribution. Europe: Albania, Andorra, Austria, Belgium, British Isles, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy (including Sicily), Lithuania, Macedonia, Norway, Poland, Romania, Slovakia, Spain (including Balearic Islands), Sweden, Switzerland, Yugoslavia. Africa: Azores, Canary Islands, Madeira. Asia: China, Japan, Nepal, North Korea, Sri Lanka, Taiwan, Thailand, Turkey, Yemen, Uzbekistan. North America: Canada, United States. South America: Bolivia, Brazil, Chile. Greenland. First record from Israel.

Phytoliriomyza immoderata Spencer, 1963
Material examined. Israel: Ein Akrabim, 1 ♂, 1.iv.1983, A. Freidberg leg. (TAU); Kalia, 1 ♂, 8.iii.1976, A. Freidberg leg. (TAU); Nizzanim, 1 ♂, 23.iii.1995, on *Tamarix* sp., I. Yaron leg. (TAU); Yarhiv, 1 ♂, 24.iii.1983, A. Freidberg leg. (TAU); Tel-Aviv, Beach, Country Club, 1 ♂, 14.iii.1995, B. Merz leg. (MHNG).
Distribution. Europe: Andorra, Italy (Sardinia), Spain, Yugoslavia. Africa: Morocco, South Africa. First record from Israel.

Phytoliriomyza ornata (Meigen, 1830)
Material examined. Israel: Berekhat Ya'ar, South, 1 ♂, 23.v.2003, L. Friedman leg. (TAU); NE Berekhat Ya´ar, 1 ♂, 6.vi.2003, A. Freidberg leg. (TAU). Hadéra, Berekhat Atta, 1 ♂,

1.v.1998, A. Freidberg leg. (TAU); Merom Golan, 1 ♂, 27.v.2003, L. Friedman leg. (TAU); Qeshet 5 km N, 1 ♂, 13.v.1981, A. Freidberg leg. (TAU).
Distribution. Europe: Austria, Belgium, British Isles, Denmark, Finland, Germany, Hungary, Lithuania, Netherlands, Poland, Slovakia, Sweden. First record from Israel.

Phytoliriomyza pteridii Spencer, 1973
Material examined. Croatia: 3 km N of Molunat, 42°28′52″N/18°25′57″E, 150 m a.s.l., 4 ♂♂, 21.v.2007, meadow near wood, M. Barták leg. (CMBP, CMCH). France: 2 km S of Guethary, 43°23′55″N/01°36′46″W, 60 m a.s.l., 5 ♂♂, 21.v.2008, edge of deciduous wood, M. Barták leg. (CMBP, CMCH).
Distribution. Europe: Andorra, British Isles, Germany, Ireland, Italy, Poland, Portugal, Slovakia, Yugoslavia. First records from Croatia and France.

Phytomyza cirsii Hendel, 1923
Material examined. Hungary: Mátra Mt., 400-1000 m a.s.l., 1 ♂, 24.viii.1986, F. Kaplan leg. (TAU). Slovakia: Abrod, 48°31′56″N/16°59′30″E, 150 m a.s.l., 2 ♂♂, 26.v.2007, wetland, sweeping, M. Barták leg. (CMBP, CMCH).
Distribution. Europe: Austria, Belgium, British Isles, Czech Republic, Denmark, Finland, France, Germany, Ireland, Lithuania, Netherlands, Poland, Spain, Sweden. Asia: Turkey. First records from Hungary and Slovakia.

Phytomyza carlestolrai Černý, 2007
Material examined. France: Col de Tourniol, 44°55′06″N/05°11′04″E, 1050 m a.s.l., 1 ♂, 26.v.2006, pasture and wood, sweeping, M. Barták leg. (CMBP, CMCH).
Distribution. Europe: Andorra. First record from France.

Phytomyza clematisella Spencer, 1986
Material examined. France: 9 km S of Sété, 43°21′09″N/03°45′48″E, 2 ♂♂, 21.-23.v.2006, seashore dunes, pan traps, M. Barták leg. (CMBP, CMCH).
Distribution. United States (Arkansas, Connecticut). First records from Europe and France.

Phytomyza conyzae Hendel, 1920
Material examined. Egypt: Sinai, Wadi Tinia, 1800-2000 m a.s.l., 1 ♂, 26.vi.1998, A. Freidberg & F. Kaplan leg. (TAU).
Distribution. Europe: Albania, Austria, British Isles, Bulgaria, Croatia (Dalmatia), Czech Republic, Denmark, France (including Corsica), Germany, Ireland, Italy (including Sardinia and Sicily), Lithuania, Malta, Netherlands, Poland, Portugal, Romania, Spain (including Balearic Islands), Sweden, Yugoslavia. Africa: Morocco. Asia: Cyprus, India, Israel, Turkey. First record from Egypt.

Phytomyza crassiseta Zetterstedt, 1860
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 1 ♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP).
Distribution. Europe: Andorra, Austria, Belarus, British Isles, Bulgaria, Croatia, Czech Republic, Estonia, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Latvia,

Lithuania, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Yugoslavia. Africa: Canary Islands. Asia: Russia (Kuril Islands). North America: United States. Southern America: Agrentina, Chile. First record from Portugal.

Phytomyza hirsuta Spencer, 1976
Material examined. Czech Republic: Moravia, Beskydy Mts., Lysá Hora, 49°32′46″N/18°26′53″E, 1323 m a.s.l., 1 ♂, 29.vii.-27.viii.2004, hilltop, Malaise trap, M. Barták leg. (CMBP).
Distribution. Europe: Finland, Norway, Slovakia, Sweden, Switzerland. First record from the Czech Republic.

Phytomyza kurilensis Iwasaki, 2000
Material examined. Switzerland: Valais, Saas-Fee, 2000-2300 m a.s.l., 1 ♂, 19.vii.1965, O. Lomholdt leg. (ZMUC).
Distribution. Russia (Kuril Islands). First records from Europe and Switzerland.

Phytomyza medicaginis Hering, 1925
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 1 ♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP).
Distribution. Europe: Belgium, British Isles, Czech Republic, France, Germany, Lithuania, Poland, Romania. First record from Portugal.

Phytomyza phillyreae Hering in Buhr, 1930
Material examined. Tunisia: Tabarka Oued Berkoukech, 3 ♂♂, 2 ♀♀, 12.iv.2005, consolidates dunes, P. Gatt leg. (CMCH, CPGR).
Distribution. Europe: France (including Corsica), Italy (including Sardinia and Sicily), Spain, Yugoslavia. Africa: Morocco. Asia: Turkey. First record from Tunisia.

Phytomyza platonoffi Spencer, 1976
Material examined. Czech Republic: Moravia mer., Lanžhot 10 km S "Košárské louky", 48°37′27″N/16°55′48″E, 151 m a.s.l., 2 ♂♂, 11.v.2008, meadow, M. Černý leg. (CMCH). Switzerland: Ticino, Cadenazzo, Demanio, 210 m a.s.l., 1 ♂, 2.iv.2007, B. Merz leg. (MHNG).
Distribution. Europe: Lithuania. First records from the Czech Republic and Switzerland.

Phytomyza ranunculi (Schrank, 1803)
Material examined. Croatia: 2 km S of Senj, 42°58′26″N/14°55′13″E, 1 ♂, 18.v.2007, sweeping, seashore, M. Barták leg. (CMBP).
Distribution. Europe: Albania, Andorra, Austria, Belarus, Belgium, British Isles, Bulgaria, Czech Republic, Denmark, Estonia, Faroe Isles, Finland, France, Germany, Grece (Crete), Hungary, Iceland, Ireland, Italy (including Sardinia and Sicily), Latvia, Lithuania, Moldavia, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Yugoslavia. Africa: Canary Islands, Madeira, Morocco. Asia: China, India, Iraq, Japan, Kyrgyzstan, North Korea, Russia (Kamchatka, Kuril Islands), Turkey, Uzbekistan. North America: Canada, United States. Greenland. First record from Croatia.

Phytomyza tetrasticha Hendel, 1927
Material examined. Portugal: 7 km E of Manteigas, 40°24′42″N/07°28′04″W, 580 m a.s.l., 1 ♂, 23.v.2008, near river, sweeping, M. Barták leg. (CMBP).
Distribution. Europe: Belgium, British Isles, Bulgaria, Czech Republic, Denmark, France (including Corsica), Germany, Ireland, Italy, Lithuania, Poland, Spain, Sweden, Switzerland. Asia: Iraq, Japan, Turkey. First record from Portugal.

Phytomyza zarzyckii Nowakowski, 1975
Material examined. Switzerland: Bern, Berner Alpen, Grindelwald env., 2500 m a.s.l., 1 ♂, 16.vi.1997, alpine zone, B. Mocek leg. (MEB).
Distribution. Europe: Poland. First record from Switzerland.

Pseudonapomyza atra (Meigen, 1830)
Material examined. Croatia: 2 km S of Senj, 42°58′26″N/14°55′13″E, 2 ♂♂, 18.v.2007, sweeping, seashore, M. Barták leg. (CMCH). Tunisia: Tabarka, Oued Berkoukech, 1 ♂, 12.iv.2005, consolidated dunes, P. Gatt leg. (CMCH).
Distribution. Europe: Andorra, Austria, Belarus, Belgium, British Isles, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France (including Corsica), Germany, Greece, Hungary, Italy (including Sardinia), Latvia, Lithuania, Malta, Netherlands, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, Yugoslavia. Africa: Azores, Canary Islands, Cape Verde Islands, Egypt, Madeira. Asia: Cyprus, India, Kazakhstan, Kyrgyzstan, Mongolia, Tajikistan, Turkey, Uzbekistan. North America: Canada, United States. First records from Croatia and Tunisia.

Ptochomyza asparagi Hering, 1942
Material examined. Israel: Herzliyya, 1 ♂, 4.iii.1982, 1 ♂, 13.iv.1982, 1 ♂, 19.iv.1982, all A. Freidberg leg. (TAU, MCMH).
Distribution. Europe: France, Germany, Hungary, Lithuania, Spain, Sweden. Africa: Ethiopia. Asia: China, Pakistan. First record from Israel.

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SOUHRN

V tomto článku jsou shrnuty nové nálezy a doplňující informace o rozšíření 63 druhů čeledi Agromyzidae na území západopalearktické oblasti. Dva druhy jsou nové pro faunu

Bulharska, 16 druhů pro Chorvatsko, 1 druh pro Kypr, 3 druhy pro Českou republiku, 1 druh pro Egypt, 9 druhů pro Francii, 15 druhů pro Izrael, 1 druh pro Jordánsko, 1 druh pro Maďarsko, 11 druhů pro Portugalsko, 2 druhy pro Slovensko, 9 druhů pro Švýcarsko a 6 druhů pro Tunis. Dva druhy, *Phytomyza clematisella* Spencer, 1986 a *P. kurilensis* Iwasaki, 2000, jsou poprvé potvrzeny z území Evropy.