

## Additional records of Agromyzidae (Diptera) from the West Palaearctic Region

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**Abstract:** New faunistic records of sixty-four species of family Agromyzidae (Diptera) from the West Palaearctic Region are given as follows: Austria (1), Bulgaria (8), Czech Republic (5), Cyprus (4), Egypt (1), France (4), Greece (3), Hungary (1), Israel (1), Italy (12), Norway (1), Portugal (13), Slovakia (2), Switzerland (3), Turkey (3).

**Key words:** Diptera, Agromyzidae, new records, distribution, West Palaearctic Region

### Introduction

More than 1200 species of family Agromyzidae are known from the Palaearctic Region. The present study forms a further supplement to the faunistic knowledge of the distribution of Agromyzid flies in the West Palaearctic Region. The distribution of some West Palaearctic species has recently been mapped by Černý (2009) and Černý & Merz (2006, 2007). This paper summarizes data obtained from eight collections revised by the author and covering faunistic records for 15 countries in Central and South Europe, North Africa and the Near East of Asia. Otherwise, the currently known distribution of European species of Agromyzidae is available in the “Fauna Europaea” database (Martinez 2013) which is followed in this paper.

### Material and methods

Most of the specimens recorded here were identified by the author; only two species of the genus *Pseudonapomyza* were named by late V. V. Zlobin. The material examined is deposited in the following collections:

CJMV - private collection Jan Máca, Veselí nad Lužnicí, Czech Republic;  
CMBP - private collection Miroslav Barták, Praha, Czech Republic;  
CMCH - private collection Miloš Černý, Halenkovice, Czech Republic;  
MHNG - Muséum d'histoire naturelle, Genève, Switzerland;  
MZLU - Museum of Zoology, Lund University, Sweden;  
MZMB - Moravské zemské muzeum, Brno, Czech Republic;  
TAUI - Tel Aviv University, Israel;  
ZMUC - Zoological Museum, University Copenhagen, Denmark.

The genera and species are arranged alphabetically within the two subfamilies Agromyzinae and Phytomyzinae in the synopsis of records below.

### Records of Agromyzidae from the West Palaearctic Region

#### AGROMYZINAE

##### *Agromyza erythrocephala* Hendel, 1920

**Material examined.** Norway: ST(i): Kongsvoll, 900-1100 m a.s.l., 1 ♀, 12.-20.vi.1985, O. Karsholt & V. Michelsen leg. (ZMUC). Switzerland: NE, Neuchâtel, 561.9/205.5, 545 m a.s.l., 1 ♂, 19.iv.2008, (Matile 77), Grande Cassarde chénaie thermoph./lisière, J.P. Haenni leg. (MHNG).

**Distribution.** Europe: Austria, British Isles, Czech Republic, Finland, Germany, Greece, Poland, Sweden. First records from Norway and Switzerland.

##### *Agromyza flaviceps* Fallén, 1923

**Material examined.** Switzerland: TI, Biasca-Loderio, 7180/1375, 350 m a.s.l., 2 ♀♀, 16.v.2006, B. Merz leg. (MHNG).

**Distribution.** Europe: Austria, Belgium, British Isles, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Italy, Lithuania, Moldavia, Netherlands, Poland, Romania, Slovakia, Sweden. First record from Switzerland.

***Agromyza mobilis* Meigen, 1830**

**Material examined.** Portugal: Serra da Estrela, 40°24'13"N/07°35'10"W, 1450 m a.s.l., 1 ♂, 16.-17.vii.2009, forest, sweeping, M. Barták leg. (CMBP).

**Distribution.** Europe: Andorra, Austria, Belgium, British Isles, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Russia, Slovakia, Spain, Sweden, Switzerland, Yugoslavia. Asia: China, Japan. First record from Portugal.

***Agromyza spenceri* Griffiths, 1963**

**Material examined.** W. Turkey: Pamucak near Ephesus, 1 ♂, 29.iv.1998, brach, D.M. Ackland leg. (MHNG).

**Distribution.** Europe: Bulgaria, Czech Republic, France, Italy, Lithuania, Malta, Poland, Spain. Africa: Morocco. Asia: Uzbekistan. First record from Turkey.

***Hexomyza simplex* (Loew, 1869)**

**Material examined.** Israel: Moon Valley, 2 ♂♂, 28.iv.1974, A. Freidberg leg. (TAUI); Timna gae, 1 ♂, 3.iv.1997, A. Freidberg leg. (TAUI).

**Distribution.** Europe: Albania, Austria, British Isles, Denmark, France, Germany, Greece, Hungary, Italy, Norway, Poland. Asia: Turkey. North America: United States. Hawaiian Islands. First record from Israel.

***Melanagromyza albocilia* Hendel, 1931**

**Material examined.** Cyprus: Protaras, 34°59'40"N/34°03'11"E, 1 ♂, 25.iii.-23.iv.2010, 75 m a.s.l., Š. Kubík leg. (CMBP).

**Distribution.** Europe: Austria, British Isles, Bulgaria, Czech Republic, Denmark, France, Germany, Greece, Hungary, Malta, Lithuania, Poland, Portugal, Russia, Slovakia, Spain, Sweden, Switzerland. Africa: Canary Islands, Egypt. Asia: Israel, Russia, Uzbekistan. First record from Cyprus.

***Melanagromyza sativae* Spencer, 1957**

**Material examined.** W. Turkey: Bergama, 1 ♂, 30.iv.1998, flowery scrub, D.M. Ackland leg. (MHNG).

**Distribution.** Europe: British Isles, Czech Republic, Germany, Greece, Lithuania, Slovakia. Asia: Cyprus, Iran. First record from Turkey.

***Melanagromyza submetallescens* Spencer, 1966**

**Material examined.** Czech Republic: Bohemia, Chomutov distr., Uhošťany, 2 km W, PP Úhošť, 50°21'16"N/13°14'10"E, 420 m a.s.l., 1 ♂, 28.v.2011, pasture, sweeping, M. Černý leg. (CMCH)

**Distribution.** Europe: Estonia, Finland, Germany, Lithuania, in the Czech Republic previously known from Moravia (Vála & Černý 1997). First record from Bohemia.

***Ophiomyia cichorii* Hering, 1949**

**Material examined.** Cyprus: Lefkara, Rt. E 105, 34°51.6'N/33°18.6'E, 1 ♂, 7.iv.2008, 600 m a.s.l., A. Freidberg leg. (TAUI).

**Distribution.** Europe: Bulgaria, France, Germany, Greece, Italy. First record from Asia (Cyprus).

***Ophiomyia heracleivora* Spencer, 1957**

**Material examined.** Portugal: Valhelhas, 40°24'10"N/07°24'16"W, 500 m a.s.l., 1 ♂, 16.-17.vii.2009, near river, sweeping and pan traps, M. Barták leg. (CMBP).

**Distribution.** Europe: British Isles, Czech Republic, Estonia, France, Germany, Greece, Lithuania, Poland, Republic of Montenegro, Slovakia, Spain, Switzerland. First record from Portugal.

***Ophiomyia labiatarum* Hering, 1937**

**Material examined.** Cyprus: Nata, Rt. E 606, 12 km E Pafos, 34°47.1'N/32°32.7'E, 300 m a.s.l., 1 ♂, 8.-10.iv.2008, A. Freidberg leg. (TAUI).

**Distribution.** Europe: Andorra, Austria, Belgium, British Isles, Bulgaria, Croatia, Czech Republic, Finland, France, Germany, Greece, Hungary, Lithuania, Norway, Poland, Slovakia, Spain, Sweden, Switzerland. Asia: Israel, Turkey. North America: Canada, United States. First record from Cyprus.

***Ophiomyia orbiculata* (Hendel, 1931)**

**Material examined.** Portugal: Valhelhas, 40°24'10"N/07°24'16"W, 500 m a.s.l., 2 ♂♂, 16.-17.vii.2009, near river, sweeping and pan traps, M. Barták leg. (CMBP).

**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. Asia: Cyprus, Turkey, Uzbekistan. First record from Portugal.

***Ophiomyia pulicaria* (Meigen, 1830)**

**Material examined.** Portugal: Valhelhas, 40°24'10"N/07°24'16"W, 500 m a.s.l., 1 ♂, 16.-17.vii.2009, near river, sweeping and pan traps, M. Barták leg. (CMBP).

**Distribution.** Europe: Andorra, Austria, Belgium, British Isles, Bulgaria, Croatia, Czech Republic, Dalmatia, Denmark, Estonia, Finland, France (including Corsica), Germany, Greece, Hungary, Italy, Lithuania, Netherlands, Norway, Poland, Slovakia, Spain, Sweden, Switzerland, Yugoslavia. Africa: Canary Islands, Kenya; Asia: China, Japan, Turkey. South America: Costa Rica. First record from Portugal.

## PHYTOMYZINAE

***Amauromyza (Amauromyza) lamii* (Kaltenbach, 1858)**

**Material examined.** Italy: Northern Italy, Weisslahnbad, 46°28'40"N/11°34'11"E, 1400 m a.s.l., 1 ♂, 4.vii.2011, edge of forest, M. Barták leg. (CMBP).

**Distribution.** Europe: Austria, Belgium, Czech Republic, Germany, Greece, Hungary, Moldavia, Poland, Romania, Slovakia. Asia: Japan. First record from Italy.

***Amauromyza (Cephalomyza) monfalconensis* (Strobl, 1909)**

**Material examined.** Greece: Mt. Olympus, Stavros, 40°06'N/22°38'E, 950 m a.s.l., 1 ♂, 23.v.2007, pasture, sweeping, M. Barták leg. (CMBP).

**Distribution.** Europe: Austria, British Isles, Czech Republic, Dalmatia, Denmark, Estonia, France, Germany, Hungary, Italy, Lithuania, Netherlands, Poland, Portugal, Romania, Slovakia, Spain, Sweden, Switzerland, Yugoslavia. Asia: Uzbekistan. First record from Greece.

***Aulagromyza trivittata* (Loew, 1873)**

**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, Czech Republic, Denmark, Estonia, France, Germany, Greece, Hungary, Ireland, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Slovakia, Spain, Sweden, Switzerland. Asia: Israel, Turkey. First record from Portugal.

***Cerodontha (Butomomyza) staryi* (Starý, 1930)**

**Material examined.** Italy: Weisslahnbad, 46°28'40"N/11°34'11"E, 1400 m a.s.l., 1 ♂, 4.vii.2011, edge of forest, M. Barták leg. (CMBP).

**Distribution.** Europe: Austria, British Isles, Czech Republic, Germany, Hungary, Poland, Slovakia, Switzerland. Asia: Japan, North Korea. First record from Italy.

***Cerodontha (Cerodontha) affinis* (Fallén, 1823)**

**Material examined.** Italy: Passo Nigra, 46°26'39"N/11°35'18"E, 1700 m a.s.l., 2 ♂♂, 5.vii.2011, meadow + wood, M. Barták leg. (CMBP, CMCH); Weisslahnbad, 46°28'40"N/11°34'11"E, 1400 m a.s.l., 1 ♂, 4.vii.2011, edge of forest, M. Barták leg. (CMBP).

**Distribution.** Europe: Andorra, Austria, Belarus, British Isles, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Latvia, Lithuania, Netherlands, Poland, Romania, Russia, Slovakia, Sweden, Switzerland, Ukraine, Yugoslavia. First record from Italy.

***Cerodontha (Cerodontha) alpestris* Martinez, 1987**

**Material examined.** Italy: Passo Nigra, 46°26'39"N/11°35'18"E, 1700 m a.s.l., 5 ♂♂, 5.vii.2011, meadow + wood, M. Barták leg. (CMBP, CMCH).

**Distribution.** Europe: France, Germany. First record from Italy.

***Cerodontha (Cerodontha) coxalis* Martinez, 1987**

**Material examined.** Czech Republic: Bohemia, Chomutov distr., Stroupeč, 1 km NW PP Stroupeč (Res.), 50°21'N/13°29'E, 250-300 m a.s.l., 2 ♂♂, 28.v.2011, steppe hillside, sweeping vegetation, M. Černý leg. (CMCH); Uhošťany, 2 km W PP Úhošť (Res.), 50°21'N/13°14'E, 420-550 m a.s.l., 1 ♂, 28.v.2011, forest steppe, sweeping vegetation, M. Černý leg. (CMCH).

**Distribution.** Europe: France. First record from the Czech Republic.

***Cerodontha (Cerodontha) unguicornis* Hendel, 1932**

**Material examined.** Bulgaria: Pirin Mts, Bandercahut - hut Vihren, 1810-2000 m a.s.l., 1 ♂, 18.vii.1987, valley et SE slopes, P. Lauterer leg. (MZMB); Rila planina, SE basis, below Δ Kovač, 2150-2350 m a.s.l., 2 ♂♂, 23.vii.1971, P. Lauterer leg. (MZMB).

**Distribution.** Europe: Austria, Czech Republic, Germany, Italy, Slovakia, Switzerland. Asia: North Korea. First record from the Bulgaria.

***Cerodontha (Dizygomyza) fasciata (Strobl, 1880)***

**Material examined.** Bulgaria: N. P. Pirin, Bandarica, 1400 m a.s.l., 1 ♂, 7.vii.1982, sweeping, Kocourek leg. (CMBP).

**Distribution.** Europe: Andorra, Austria, Belgium, British Isles, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Norway, Poland, Russia, Slovakia, Spain, Sweden, Switzerland. Asia: North Korea. North America: Canada, United States. First record from Bulgaria.

***Cerodontha (Dizygomyza) iridis (Hendel, 1927)***

**Material examined.** Czech Republic: Moravia, Brno, Arboretum of the Mendel University in Brno, 49°12'53"N/16°36'51"E, 1 ♂, 29.viii.2011, ex pupa on *Iris spuria*, imago 27.ii.2012, H. Šeflová leg. (CMCH).

**Distribution.** Europe: British Isles, France, Germany, Hungary, Italy, Portugal. First record from Czech Republic.

***Cerodontha (Dizygomyza) spinata (Groschke, 1954)***

**Material examined.** Bulgaria: Pirin planina, SE slopes of Δ Vichren (marble), 2400-2500 m a.s.l., 1 ♂, 26.vii.1971, Popina laca, P. Lauterer leg. (MZMB).

**Distribution.** Europe: Austria, British Isles, Czech Republic, Germany, Italy, Poland, Switzerland, Asia: North Korea. First record from Bulgaria.

***Cerodontha (Poemyza) imbuta (Meigen, 1838)***

**Material examined.** Austria: Brennersee, 47°00'58"N/11°30'18"E, 1320 m a.s.l., 1 ♂, 6.vii.2011, near Lake, M. Barták leg. (CMBP).

**Distribution.** Europe: British Isles, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Lithuania, Poland, Slovakia, Spain, Sweden, Switzerland. Asia: Mongolia, Turkey. First record from Austria.

***Cerodontha (Poemyza) incisa (Meigen, 1830)***

**Material examined.** Portugal: Serra da Estrela, 40°24'13"N/07°35'10"W, 1450 m a.s.l., 1 ♂, 16.-17.vii.2009, forest, sweeping, M. Barták leg. (CMBP).

**Distribution.** Europe: Andorra, Austria, Belarus, Belgium, British Isles, Bulgaria, Czech Republic, Dalmatia, Denmark, Estonia, Finland, France (including Corsica), Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Yugoslavia. Asia: China, Japan, Pakistan, Russia – Yakutia, Turkey. North America: Canada, United States. First record from Portugal.

***Cerodontha (Poemyza) vladimiri Černý in Černý & Merz, 2007***

**Material examined.** Czech Republic: Moravia, Ječmeniště, 48°45'N/16°08'E, 250-290 m a.s.l., 1 ♂, 6.v.2006, steppe, J. Máca leg. (CJMV).

**Distribution.** Europe: only known from Czech Republic (Bohemia) and Switzerland. First record from Moravia.

***Cerodontha (Poemyza) zuskai Nowakowski, 1973***

**Material examined.** Czech Republic: Bohemia: Šnepov, PR Mydlovarský luh, 50°10'36"N/14°55'10"E, 178 m a.s.l., 1 ♂, 26.v.2012, meadow; 50.10.37.N/14.55.08E, 1 ♂, 26.v.2012, vegetation near stream, sweeping, M. Černý leg. (CMCH).

**Distribution.** Europe: Germany, Poland, Slovakia. First record from Czech Republic.

***Chromatomyia beigeriae Griffiths, 1980***

**Material examined.** Italy: Passo Nigra, 46°26'39"N/11°35'18"E, 1700 m a.s.l., 1 ♂, 5.vii.2011, meadow + wood, M. Barták leg. (CMBP).

**Distribution.** Europe: Germany, Poland, Slovakia. First record from Italy.

***Chromatomyia fuscula (Zetterstedt, 1838)***

**Material examined.** Bulgaria: Rila planina, Trešteník (Jakoruda), 1750-1900 m a.s.l., 2 ♂♂, 23.vii.1971, P. Lauterer leg. (MZMB).

**Distribution.** Europe: Andorra, Austria, British Isles, Czech Republic, Denmark, Finland, France, Germany, Greece, Italy, Netherlands, Norway, Poland, Serbia, Slovakia, Sweden, Switzerland. Asia: Japan, Kamchatka, Russia, Turkey. North America: Canada, United States. Alaska. Greenland. First record from Bulgaria.

***Chromatomyia opacella (Hendel, 1935)***

**Material examined.** Bulgaria: Rila planina, SE basis, below Δ Kovač, 2150-2350 m a.s.l., 1 ♂, 23.vii.1971, P. Lauterer leg. (MZMB).

**Distribution.** Europe: Austria, British Isles, Czech Republic, Faroe Is., Finland, Germany, Iceland, Italy, Norway, Poland, Switzerland. Greenland. First record from Bulgaria.

***Chromatomyia rhaetica* Griffiths, 1980**

**Material examined.** Czech Republic: Moravia, Jeseníky Mts, Velká Kotlina, 50°03'16"N/17°14'15"E, 1180 m a.s.l., 2 ♂♂, 9.vi.-26.vi.2006, wetland, Malaise Trap, J. Ševčík & J. Roháček leg. (CMBP).

**Distribution.** Europe: Austria, Czech Republic, Slovakia. From the Czech Republic known only from Bohemia (Černý & Vála 2005), first record from Moravia.

***Liriomyza congesta* (Becker, 1903)**

**Material examined.** Portugal: Valhelhas, 40°24'10"N/07°24'16"W, 500 m a.s.l., 2 ♂♂, 16.-17.vii.2009, near river, sweeping and pan traps, M. Barták leg. (CMBP).

**Distribution.** Europe: Albania, Andorra, Austria, Belgium, British Isles, Croatia, Czech Republic, Denmark, Estonia, Finland, France (including Corsica), 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: Cyprus, China, India, Israel, Japan, Oman, Russia – Yakutia, South Korea, Turkey, Yemen. First record from Portugal.

***Liriomyza demeijerei* Hering, 1930**

**Material examined.** Slovakia: Malé Karpaty Mts, 1.7 km NW Dubová, Fúgelka, 48°22'30"N/17°19'05"E, 370 m a.s.l., 1 ♂, 6.ix.2011, meadow, sweeping, M. Černý leg. (CMCH).

**Distribution.** Europe: Austria, Belgium, British Isles, Czech Republic, Denmark, Finland, France, Germany, Hungary, Italy (including Sicily), Lithuania, Poland, Sweden, Switzerland. Asia: North Korea. First record from Slovakia.

***Liriomyza eupatoriana* Spencer, 1954**

**Material examined.** Slovakia: Malé Karpaty Mts, 1.7 km NW Dubová, Fúgelka, 48°22'30"N/17°19'05"E, 370 m a.s.l., 1 ♂, 6.ix.2011, meadow, sweeping, M. Černý leg. (CMCH).

**Distribution.** Europe: British Isles, Bulgaria, Czech Republic, Dalmatia, France, Germany, Hungary, Italy, Lithuania, Poland, Romania, Spain, Yugoslavia. First record from Slovakia.

***Liriomyza flaveola* (Fallén, 1823)**

**Material examined.** Portugal: Serra da Estrela, 40°24'13"N/07°35'10"W, 1450 m a.s.l., 2 ♂♂, 16.-17.vii.2009, forest, sweeping M. Barták leg. (CMBP). Vila Nova de Milfontes, 37°43'33"N/08°46'08"W, 1 ♂, 19.vii.2009, estuary, sweeping, M. Barták leg. (CMBP).

**Distribution.** Europe: Andorra, Austria, Belarus, Belgium, British Isles, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Monaco, Netherlands, Norway, Poland, Portugal, Republic of Montenegro, Russia, Slovakia, Spain, Sweden, Switzerland. Asia: India, Japan, Kuril Islands, North Korea, Russia, Turkey, Uzbekistan. First record from Portugal.

***Liriomyza hampsteadensis* Spencer, 1971**

**Material examined.** Egypt: Sinai, Wadi Tubug, 1600 m a.s.l., 1 ♂, 23.vi.1998, A. Freidberg & F. Kaplan leg. (TAUI). Italy: Weisslahnbad, 46.28.40N/11.34.11E, 1400 m a.s.l., 1 ♂, 4.vii.2011, edge of forest, M. Barták leg. (CMBP).

**Distribution.** Europe: Belgium, British Isles, Czech Republic, Germany, Greece, Lithuania. First record from Egypt and Italy.

***Liriomyza infuscat* Hering, 1926**

**Material examined.** Bulgaria: Pirin planina, SE slopes of Δ Vichren (marble), 2400-2500 m a.s.l., 2 ♂♂, 26.vii.1971, Popina laca, P. Lauterer leg. (MZMB).

**Distribution.** Europe: Belgium, British Isles, Czech Republic, Estonia, Finland, France, Germany, Latvia, Lithuania, Norway, Poland, Portugal, Russia, Slovakia, Spain, Sweden, Ukraine. Asia: Mongolia, Russia. First record from Bulgaria.

***Liriomyza intonsa* Spencer, 1976**

**Material examined.** Switzerland, VS, Leuk-Platten, 650 m a.s.l., 1 ♂, 5.iv.2007, B. Merz leg. (MHNG).

**Distribution.** Europe: Bulgaria, Czech Republic, Denmark, France, Germany, Greece, Lithuania, Spain, Sweden. First record from Switzerland.

***Liriomyza lituanica* Pakalniškis, 1992**

**Material examined.** Italy: Weisslahnbad, 46°28'40"N/11°34'11"E, 1400 m a.s.l., 1 ♂, 4.vii.2011, edge of forest, M. Barták leg. (CMBP).

**Distribution.** Europe: Czech Republic, Lithuania. Asia: North Korea. First record from Italy.

***Liriomyza scorzonerae* Rydén, 1951**

**Material examined.** Italy: Passo Nigra, 46°26'39"N/11°35'18"E, 1700 m a.s.l., 1 ♂, 5.vii.2011, meadow + wood, M. Barták leg. (CMBP).

**Distribution.** Europe: British Isles, Czech Republic, Estonia, France, Germany, Greece, Lithuania, Portugal, Spain, Sweden. First record from Italy.

***Napomyza merita* Zlobin, 1993**

**Material examined.** France: Sainte Baume, 43°20'N/05°44'E, 400-600 m a.s.l., 1 ♂, 15.-16.v.2012, edge of forest, M. Barták leg. (CMBP).

**Distribution.** Europe: Czech Republic, Finland, Greece, Hungary, Russia, Sweden, Switzerland. First record from France.

***Napomyza scrophulariae* Spencer, 1966**

**Material examined.** Portugal: Valhelhas, 40°24'10"N/07°24'16"W, 500 m a.s.l., 3 ♂♂, 16.-17.vii.2009, near river, sweeping and pan traps, M. Barták leg. (CMBP).

**Distribution.** Europe: Andorra, British Isles, Czech Republic, Denmark, France (including Corsica), Germany, Greece, Ireland, Lithuania, Norway, Slovakia, Spain, Sweden, Switzerland. Africa: Morocco. Asia: Israel, Tajikistan. First record from Portugal.

***Phytoliriomyza ornata* (Meigen, 1830)**

**Material examined.** Turkey: Rt. 32-08, 20 km N, Sütçüler, 1000 m a.s.l., 1 ♀, 6.v.2000, A. Freidberg & H. Ackerman leg. (TAUI).

**Distribution.** Europe: Austria, Belgium, British Isles, Denmark, Finland, Germany, Greece, Hungary, Lithuania, Netherlands, Poland, Slovakia, Sweden. Asia: Israel. First record from Turkey.

***Phytoliriomyza pectoralis* (Becker, 1908)**

**Material examined.** Portugal: Serra da Estrela, 40°24'13"N/07°35'10"W, 1450 m a.s.l., 3 ♂♂, 16.-17.vii.2009, forest, sweeping, M. Barták leg. (CMBP).

**Distribution.** Europe: British Isles, Greece, Sicily, Sweden. Africa: Canary Islands, Madeira. First record from Portugal.

***Phytoliriomyza perpusilla* (Meigen, 1830)**

**Material examined.** Portugal: Serra da Estrela, 40°24'13"N/07°35'10"W, 1450 m a.s.l., 3 ♂♂, 16.-17.vii.2009, forest, sweeping, M. Barták leg. (CMBP).

**Distribution.** Europe: Belgium, British Isles, Bulgaria, Czech Republic, Estonia, Finland, France, Germany, Greece, Hungary, Italy (including Sardinia), Lithuania, Netherlands, Poland, Spain, Sweden, Switzerland. Africa: Canary Islands, Cape Verde Islands, Lesotho, South Africa, Tunisia; Asia: Oman, Russia – Yakutia, Turkey. First record from Portugal.

***Phytoliriomyza scotica* Spencer, 1962**

**Material examined.** Czech Republic: Bohemia bor., Horní Pertoltice, 5056, Hraniční Rybník pond, 1 ♂, 1.vii.-25.vii.2007, Malaise Trap, J. Preisler & P. Vonička leg. (CMCH).

**Distribution.** Europe: British Isles, France, Germany, Portugal. Africa: Canary Islands, Madeira. First record from Czech Republic.

***Phytomyza cineracea* Hendel, 1920**

**Material examined.** France: 12 km NNW from Morez, 46°36'51"N/05°57'34"E, 810 m a.s.l., 5 ♂♂, 19.v.2012, damp meadow, M. Barták leg. (CMBP).

**Distribution.** Europe: British Isles, Czech Republic, Germany, Hungary, Iceland, Slovakia. Asia: Russia (Wrangel Island). First record from France.

***Phytomyza ferulae* Hering, 1927**

**Material examined.** Cyprus: Panagia, 25 km NE Pafos, 34°54.6'N/32°37.1'E, 1 ♂, 8.iv.2008, 900 m a.s.l., A. Freidberg leg. (TAUI).

**Distribution.** Europe: France, Greece, Italy, Malta, Spain (including Balearic Islands). Africa: Canary Islands, Morocco. Asia: Israel, Turkey. First record from Cyprus.

***Phytomyza homogynae* Hering, 1927**

**Material examined.** France: Haute-Savoie, Pormenaz, 1700-2200 m a.s.l., 1 ♂, 1.-15.viii.2003, MT, Castella & Speight leg. (MHNG).

**Distribution.** Europe: Austria, Czech Republic, Germany, Italy, Poland, Switzerland. Asia: China, Japan, Taiwan. First record from France.

***Phytomyza kaltenbachi* Hendel, 1922**

**Material examined.** Italy: Passo Nigra, 46°26'39"N/11°35'18"E, 1700 m a.s.l., 2 ♂♂, 5.vii.2011, meadow + wood, M. Barták leg. (CMBP).

**Distribution.** Europe: Austria, British Isles, Czech Republic, Denmark, Germany, Poland, Republic of Montenegro, Switzerland. Asia: Turkey. First record from Italy.

***Phytomyza mutellinae* Beiger, 1961**

**Material examined.** Czech Republic: Moravia, Jeseníky Mts, Ovčárna, 0.1 km S, 50°04'11"N/17°14'22"E, 1300 m a.s.l., 1 ♂, 13.vi.2009, alpine meadow, sweeping, M. Černý leg. (CMCH).

**Distribution.** Europe: Poland, Slovakia. First record from Czech Republic.

***Phytomyza nigrifemur* Hering, 1934**

**Material examined.** Bulgaria: Pirin planina, Begovice valley, 1600 m a.s.l., Popina laca, 1 ♂, 17.vii.1971, P. Lauterer leg. (MZMB).

**Distribution.** Europe: Austria, Belarus, British Isles, Czech Republic, Estonia, Finland, France, Germany, Latvia, Lithuania, Poland, Slovakia, Sweden. First record from Bulgaria.

***Phytomyza notata* Meigen, 1830**

**Material examined.** Bulgaria: Piri Rila planina, SE basis, Begovice valley, below Kovač, 2150-2350 m a.s.l., 1 ♂, 23.vii.1971, P. Lauterer leg. (MZMB).

**Distribution.** Europe: Austria, Belarus, British Isles, Czech Republic, Denmark, Finland, France, Germany, Italy, Lithuania, Poland, Republic of Montenegro, Russia, Serbia, Slovakia, Sweden, Switzerland. First record from Bulgaria.

***Phytomyza pimpinellae* Hendel, 1924**

**Material examined.** Italy: Weisslahnbad, 46°28'40"N/11°34'11"E, 1400 m a.s.l., 37 ♂♂, 4.vii.2011, edge of forest, M. Barták leg. (CMBP).

**Distribution.** Europe: Austria, Belarus, Bosnia and Herzegovina, British Isles, Czech Republic, Germany, Latvia, Lithuania, Netherlands, Norway, Poland, Slovakia, Sweden. First record from Italy.

***Phytomyza podagrariae* Hering, 1954**

**Material examined.** Italy: Weisslahnbad, 46°28'40"N/11°34'11"E, 1400 m a.s.l., 2 ♂♂, 4.vii.2011, edge of forest, M. Barták leg. (CMBP).

**Distribution.** Europe: Czech Republic, Germany, Lithuania, Poland. Asia: Turkey. First record from Italy.

***Phytomyza pulsatillae* Hering, 1924**

**Material examined.** Greece: Corfu, Barbati, 2 ♂♂, 16.-24.vi.2002, V. Vrabec leg. (CMBP).

**Distribution.** Europe: Austria, Czech Republic, Denmark, Germany, Italy, Lithuania, Poland, Spain, Sweden, Switzerland. First record from Greece.

***Phytomyza ranunculi* (Schrank, 1803)**

**Material examined.** Portugal: Serra da Estrela, 40°24'13"N/07°35'10"W, 1450 m a.s.l., 1 ♂, 16.-17.vii.2009, forest, sweeping, M. Barták leg. (CMBP).

**Distribution.** Europe: Albania, Andorra, Austria, Belarus, Belgium, British Isles, Bulgaria, Croatia, Czech Republic, Dalmatia, Denmark, Faroe Islands, Finland, France (including Corsica), Germany, Greece, Hungary, Iceland, Ireland, Italy (including Sardinia and Sicily), Latvia, Lithuania, Moldavia, Netherlands, Norway, Poland, Republic of Montenegro, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine. Africa: Azores, Canary Islands, Madeira Islands, Morocco. Asia: China, India, Iraq, Japan, Kamchatka, Kuril Islands, Kyrgistan, North Korea, Russia – Yakutia, Turkey, Uzbekistan. North America: Canada, United States. Greenland. First record from Portugal.

***Phytomyza ranunculicola* Hering, 1949**

**Material examined.** Italy: Weisslahnbad, 46°28'40"N/11°34'11"E, 1400 m a.s.l., 1 ♂, 4.vii.2011, edge of forest, M. Barták leg. (CMBP).

**Distribution.** Europe: Austria, Belarus, British Isles, Czech Republic, Denmark, Estonia, France, Germany, Lithuania, Poland, Slovakia, Switzerland. First record from Italy.

***Phytomyza soenderupi* Hering, 1941**

**Material examined.** France: 12 km NNW from Morez, 46°36'51"N/05°57'34"E, 810 m a.s.l., 1 ♂, 19.v.2012, damp meadow, M. Barták leg. (CMBP).

**Distribution.** Europe: Belgium, British Isles, Czech Republic, Denmark, Estonia, Germany, Ireland, Lithuania, Norway, Slovakia, Switzerland. First record from France.

***Pseudonapomyza hispanica* Spencer, 1973**

**Material examined.** Greece: Kreta, Malia, 1 km E, 2 ♂♂, 16.-17.v.1979, plantation, R. Danielsson leg., V.V. Zlobin det. (MZLU).

**Distribution.** Europe: Italy, Spain. Africa: Gambia, Kenya, Madeira Islands, Sierra Leone, Zambia. Asia: Cyprus, Israel, Turkey, Yemen. First record from Greece.

***Pseudonapomyza odessae* Černý, 1998**

**Material examined.** Hungary: Balatonföldvár, 1 ♂, 1.viii.1961, A. Sundholm leg., V.V. Zlobin det. (MZLU).

**Distribution.** Ukraine, France. First record from Hungary.

***Pseudonapomyza palliditarsis* Černý, 1992**

**Material examined.** Czech Republic: Bohemia, Chomutov distr., Stroupeč, 1 km NW PP "Stroupeč", 50°21'35"N/13°29'25"E, 250 m a.s.l., 1 ♂, 28.v.2011, ruderal vegetation near road, sweeping, M. Černý leg.

(CMCH); Uhošťany, 2 km W NPR "Úhošť", 50°21'16"N/13°14'10"E, 420 m a.s.l., 1 ♂, 28.v.2011, pasture, sweeping, M. Černý leg. (CMCH).

**Distribution.** Europe: Bulgaria, Czech Republic, Hungary, Poland, Russia, Ukraine. Asia: Russia – Yakutia. In the Czech Republic previously known from Moravia (Černý, 1992), first record from Bohemia.

#### ***Pseudonapomyza spinosa* Spencer, 1973**

**Material examined.** Portugal: Vila Nova de Milfontes, 37°43'33"N/08°46'08"W, 2 ♂♂, 19.vii.2009, estuary, sweeping, M. Barták leg. (CMBP).

**Distribution.** Europe: Greece, Spain. Africa: Canary Islands, Egypt, Kenya, Lesotho, Nigeria, South Africa, Tanzania. Asia: Cyprus, India, Israel, Oman, Saudi Arabia, Turkey, Yemen. Australia. First record from Portugal.

## **Conclusions**

New records of the occurrence of 64 species of mining flies (Agromyzidae) from 15 countries of the West Palaearctic Region are presented. One species is recorded for the first time from Austria, 8 from Bulgaria, 4 from Cyprus, 5 from the Czech Republic, 1 from Egypt, 4 from France, 3 from Greece, 1 from Hungary, 1 from Israel, 12 from Italy, 1 from Norway, 13 from Portugal, 2 from Slovakia, 3 from Switzerland and 3 from Turkey. Two species, viz. *Pseudonapomyza odessae* Černý, 1998 and *Cerodontha (Cerodontha) coxalis* Martinez, 1987 are new additions to the Central European fauna of Diptera. The record of *Ophiomyia cichorii* Hering, 1949 from Cyprus is not only the first from Asia but represents the new easternmost limit of this species. *Cerodontha (Cerodontha) alpestris* Martinez, 1987, *Chromatomyia beigeriae* Griffiths, 1980 and *Liriomyza lituanica* Pakalniškis, 1992 are reported from southern Europe for the first time and *Liriomyza hampsteadensis* Spencer, 1971 from the whole of the Mediterranean subregion.

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### **Další nálezy druhů čeledi Agromyzidae (Diptera) ze západopalearktické oblasti**

Prezentovány jsou další nové údaje o výskytu 64 druhů minujících much čeledi Agromyzidae z 15 států v západopalearktické oblasti. Osm druhů je nových pro faunu Bulharska, 5 druhů pro Českou republiku, 1 druh pro Egypt, 4 druhy pro Francii, 12 druhů pro Itálii, 1 druh pro Izrael, 4 druhy pro Kypr, 1 druh pro Maďarsko, 1 druh pro Norsko, 13 druhů pro Portugalsko, 1 druh pro Rakousko, 3 druhy pro Řecko, 2 druhy pro Slovensko, 3 druhy pro Švýcarsko a 3 druhy pro Turecko. Dva druhy *Pseudonapomyza odessae* Černý, 1998 a *Cerodontha (Cerodontha) coxalis* Martinez, 1987 jsou poprvé potvrzeny z území Střední Evropy. Nález *Ophiomyia cichorii* Hering, 1949 na Kypru představuje nejvýchodnější výskyt tohoto druhu a je zároveň prvním údajem z Asie. *Cerodontha (Cerodontha) alpestris* Martinez, 1987, *Chromatomyia beigeriae* Griffiths, 1980 a *Liriomyza lituanica* Pakalniškis, 1992 jsou poprvé hlášeny z Jižní Evropy a *Liriomyza hampsteadensis* Spencer, 1971 ze Středomoří.

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