

CONTRIBUTIONS TO THE KNOWLEDGE OF ACULEATE WASP AND ANT FAUNA OF SĂLAJ COUNTY, ROMANIA (HYMENOPTERA: ACULEATA, EXCLUDING BEES)

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ABSTRACT: In 2014–2015 a faunistical survey was carried out in Sălaj County, Romania by the Hungarian Natural History Museum in co-operation with the "Vasile Goldiș" Western University of Arad. Here we report the results of the following aculeate wasp and ant families: Chrysididae (5 species), Dryinidae (2 species), Embolemidae (1 species), Sapygiidae (1 species), Mutillidae (2 species), Scoliidae (1 species), Tiphidae (2 species), Formicidae (28 species), Pompilidae (5 species), Vespidae (10 species), Sphecidae (2 species), and Crabronidae (14 species). In total, 73 species were recorded.

Keywords: faunistics, Chryridoidea, Vespoidea, Apoidea, Spheciformes

INTRODUCTION:

In 2014–2015 a faunistical survey was carried out in Sălaj County (Romania) by the Hungarian Natural History Museum (HNHM) in co-operation with the "Vasile Goldiș" Western University of Arad. All specimens reported here were collected within the framework of this co-operation.

Aculeate Hymenoptera represent many of the best studied groups of the order (such as social wasps and ants) in the European fauna (see e.g. Gauld *et al.*, 1988). However, as most of the collectings in Sălaj County were done by non-specialists of Hymenoptera, relatively few specimens were collected. Aculeate wasps are usually good flying, active insects armoured with a sting; hence in general it is neither easy nor favoured to collect them.

In this paper we report the results regarding the aculeate wasps and ants (Chryridoidea, Vespoidea, Apoidea: Spheciformes), excluding the bees (Apoidea: Apiformes). The terms Spheciformes and Apiformes, although the former does not represent a monophyletic category, are used in this paper following Goulet *et al.* (1993) to emphasize the distinction between the apoid (once called "sphecoid") wasps and the bees.

MATERIALS AND METHODS:

Embolemidae, Sapygiidae, Scoliidae, Tiphidae, Pompilidae, Vespidae, Sphecidae and Crabronidae were identified by the first author, Dryinidae and Formicidae by the second author, Chrysididae and Mutillidae by the third author. It is also indicated in the list after each family name. A few *Temnothorax* and *Tetramorium* (Formicidae) specimens have been identified to genus-level only, hence they are not included in the list of species below. All specimens are deposited in the HNHM Hymenoptera Collection.

Taxonomy and nomenclature follow Goulet *et al.* (1993) and the Fauna Europaea database (Yong *et al.*, 2014). Superfamilies, families, genera, and species are ordered alphabetically. Collecting numbers, localities and dates are given in the list below, following in the main Gubányi (2015). Collectors' names are abbreviated in the list as: AGr – Aranka Grabant, AGu – András Gubányi, AK – Attila Kenéz, AO – András

Orosz, AP – Attila Podlussány, CsK – Csaba Kutasi, DM – Dávid Murányi, GK – Gergely P. Katona, GP – Gellért Puskás, LD – László Dányi, LR – László Ronkay, MT – Mária Tóth, OM – Ottó Merkl, PS – Péter G. Sulyán, VSz – Viktória Szőke, ZE – Zoltán P. Erőss, ZS – Zoltán Soltész, ZV – Zoltán Vas, ZsB – Zsolt Bálint. The abbreviation "w" in the list means the worker caste of eusocial species ("ww" in plural form).

RESULTS AND DISCUSSION:

Below we list the aculeate wasp and ant species recorded from Sălaj County in 2014–2015. The majority of the reported species are common and widespread species in Europe. A few rare species have also been found; in their cases, some remarks are given following the collecting data.

Apoidea: Spheciformes

Crabronidae (det. Z. Vas)

Bembicinae

Bembecinus tridens (Fabricius, 1781)

1 ♀: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, flight intercept trap, PS & ZV.

Crabroninae

Crossocerus quadrimaculatus (Fabricius, 1793)

2 ♀♀: 234: Dealurile Crasnei (Krasznamentidombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV.

Ectemnius lapidarius (Panzer, 1804)

1 ♀: 57: Dealurile Crasnei (Krasznamentidombság), Crasna (Kraszna), Vârșolț (Varsolc) Reservoir, 02.06.2014, N47.177° E22.889°; sweeping, hand collecting, pitfall traps, AO, GP, ZS & MT. – 1 ♂: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, flight intercept trap, PS & ZV.

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Entomognathus brevis (Linden, 1829)

2 ♂♂: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, flight intercept trap, PS & ZV.

Lindenius albilabris (Fabricius, 1793)

1 ♂: 61A: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), 03.06.2014, N47.111° E22.659°; sweeping, hand collecting, AO, GP, ZS & MT.

Trypoxylon attenuatum F. Smith, 1851

1 ♂: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, flight intercept trap, PS & ZV.

Trypoxylon figulus (Linnaeus, 1758)

1 ♀, 1 ♂: 194: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), loess wall, 13.05.2015, N47.157° E22.994°; hand collecting, AGr, OM, AP & VSz.

Trypoxylon fronticorne Gussakovskij, 1936

2 ♀♀: 194: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), loess wall, 13.05.2015, N47.157° E22.994°; hand collecting, AGr, OM, AP & VSz.

Trypoxylon scutatum Chevrier, 1867

1 ♀: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV. – Remark: *Trypoxylon scutatum* was considered to be common only in the Mediterranean region but rare in the Carpathian Basin (Bajári, 1957). However, since then it seems to be more frequent and widespread in Central and Northern Europe (Józan, 2011, Wahis, 2013).

Pemphredoninae

Diodontus luperus Shuckard, 1837

1 ♂: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, flight intercept trap, PS & ZV.

Diodontus minutus (Fabricius, 1793)

4 ♀♀, 5 ♂♂: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV.

Mimumesa dahlbomi (Wesmael, 1852)

1 ♀: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, flight intercept trap, PS & ZV.

Passaloecus gracilis Curtis, 1834

1 ♂: 73: Dealurile Crasnei (Krasznamenti-dombság), Șimleu Silvaniei (Szilágysomlyó),

05.06.2014, N47.237° E22.804°; sweeping, hand collecting, AO, GP, ZS & MT. – 1 ♀: 236: Dealurile Crasnei (Krasznamenti-dombság), Crasna (Kraszna), near Vârșoț (Varsolc) reservoir, willows and wet meadow, 15.07.2015, N47.1776° E22.8891°; hand collecting, sweeping, flight intercept trap, PS & ZV.

Philanthinae

Cerceris hortivaga Kohl, 1880

1 ♂: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, flight intercept trap, PS & ZV.

Sphecidae (det. Z. Vas)

Ammophila campestris Latreille, 1809

1 ♂: 107: Dealurile Crasnei (Krasznamenti-dombság), Crasna (Kraszna), Vârșoț (Varsolc) Reservoir, 30.09.2014, N47.177° E22.889°; pitfall traps, ZsB, LD, GK & DM.

Ammophila sabulosa (Linnaeus, 1758)

1 ♀: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV. – 1 ♀: 248: Munții Plopiș (Réz-hegység), Tusa (Tuszatálke), Barcău (Berettyó) springs, wet pasture, 16.07.2015, N47.0196° E22.7519°; hand collecting, sweeping, ZE, AK, PS & ZV.

Chrysoidea

Chrysididae (det. J. Muskovits)

Chrysidinae

Chrysis ragusae De Stefani, 1888

1 ♀: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV.

Chrysis rutilans Olivier, 1790

1 ♂: 60A: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 02-03.06.2014, N47.157° E22.992°; sweeping, hand collecting, pitfall traps, light trap, AO, GP, ZS & MT.

Hedychridium ardens (Coquebert, 1801)

1 ♂: 228: Munții Meseșului (Meszes-hegység), Treznea (Ördögkút), alongside creek, wet meadow, 14.07.2015, N47.1091° E23.0728°; hand collecting, ZE, AK, PS & ZV. – 1 ♀, 1 ♂: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV.

Hedychridium coriaceum (Dahlbom, 1854)

2 ♀♀, 1 ♂: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV.

Trichrysis cyanea (Linnaeus, 1758)

3 ♀♀: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireş (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV.

Dryinidae (det. P. Szöllösi-Tóth)

Anteon pubicorne (Dalman, 1818)

1 ♀: 86: Munţii Meseşului (Meszes-hegység), 4.5 km W of Mesteacănu (Almásnyíres), 13.08.2014, N46.969° E22.959°; sweeping, hand collecting, AGu, GK, AO & GP.

Gonatopus bicolor (Haliday, 1828)

1 ♂: 86: Munţii Meseşului (Meszes-hegység), 4.5 km W of Mesteacănu (Almásnyíres), 13.08.2014, N46.969° E22.959°; sweeping, hand collecting, AGu, GK, AO & GP.

Embolemidae (det. Z. Vas)

Embolemus ruddii Westwood, 1833

1 ♂: 271: Dealurile Boiului (Szamoszug), Vălişoara (Dióspatak), limestone hill, meadow, 10.09.2015, N47.360497° E23.426362°; sweeping, AGu, AO, LR & MT. – Remark: *Embolemus ruddii* is a rare (or rarely collected), little known species in Europe (Achterberg *et al.*, 2000).

Vespoidea

Formicidae (det. P. Szöllösi-Tóth)

Dolichoderinae

Tapinoma erraticum (Latreille, 1798)

1 w: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireş (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV. – 1 w: 267: Dealurile Sălajului (Szilágymenti-dombság), Zalău-Ortelec (Zilah-Vártelek), oak forest on the top of the hill, semi-natural steppe, 09.09.2015, N47.211599° E23.133539°; sweeping, leaf-hoover, AGu, AO, LR & MT.

Formicinae

Camponotus aethiops (Latreille, 1798)

1 ♀, 2 ww: 175: Culoarul Someşului (Szamos völgye), Surduc (Szurduk), in village, 11.05.2015, N47.247° E23.338°; from stacked wood, AGr, OM, AP & VSz. – 1 w: 218: Depresiunea Almaş-Agrij (Almás-Egry-medence), Ugruţiu (Ugróc), 28.05.2015, N47.025783° E23.350829°; hand collecting, ZsB, AGu & GK. – 1 w: 252: Dealurile Crasnei (Krasznamenti-dombság), Aghireş (Egrespatak), dry sward with loess wall and abandoned orchard, 16.07.2015, N47.1569° E22.9923°; light trap, PS & ZV.

Camponotus piceus (Leach, 1825)

1 w: 201: Munţii Plopiş (Réz-hegység), Iaz (Krasznajáz), Mlaştina de la Iaz, pasture, 13.05.2015, N47.11° E22.659°; sweeping, hand collecting, AGr, OM, AP & VSz. – 4 ww: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireş (Egrespatak), dry sward with loess wall and orchard, 15.07.2015,

N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV. – 9 ww: 267: Dealurile Sălajului (Szilágymenti-dombság), Zalău-Ortelec (Zilah-Vártelek), oak forest on the top of the hill, semi-natural steppe, 09.09.2015, N47.211599° E23.133539°; sweeping, leaf-hoover, AGu, AO, LR & MT.

Camponotus truncatus (Spinola, 1808)

3 ♀♀, 7 ♂♂: 252: Dealurile Crasnei (Krasznamenti-dombság), Aghireş (Egrespatak), dry sward with loess wall and abandoned orchard, 16.07.2015, N47.1569° E22.9923°; light trap, PS & ZV.

Formica cunicularia Latreille, 1798

3 ww: 112: Munţii Meseşului (Meszes-hegység), Pria (Perje), SW slope of Vf. Măgura Priei (Perjei csúcs), 01.10.2014, N47.0056° E22.89196°; soil sample, sweeping, ZsB, LD, GK & DM. – 1 w: 116: Munţii Meseşului (Meszes-hegység), W of Mesteacănu (Almásnyíres), 01.10.2014, N46.96701° E22.96668°; soil sample, ZsB, LD, GK & DM. – 2 ww: 184: Munţii Meseşului (Meszes-hegység), Poic, wet meadow, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz. – 2 ww: 200: Munţii Plopiş (Réz-hegység), Tusa (Tuszatélke), Barcău (Berettyó) springs, 13.05.2015, N47.02° E22.749°; hand collecting, AGr, OM, AP & VSz. – 2 ww: 250: Munţii Plopiş (Réz-hegység), Iaz (Krasznajáz), Mlaştina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, PS & ZV. – 1 w: 264: Munţii Meseşului (Meszes-hegység), Poic, marshy meadow, 08.09.2015, N46.984929° E22.920089°; sweeping, leaf-hoover, AGu, AO, LR & MT.

Formica fusca Linnaeus, 1758

3 ww: 161: Dealurile Sălajului (Szilágymenti-dombság), Derşida (Kisderzsida), pasture, 10.05.2015, N47.398° E22.814°; sweeping, AGr, OM, AP & VSz. – 2 ww: 226: Munţii Meseşului (Meszes-hegység), beech forest, 14.07.2015, N47.1383° E23.0847°; hand collecting, ZE, AK, PS & ZV. – 2 ww: 250: Munţii Plopiş (Réz-hegység), Iaz (Krasznajáz), Mlaştina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, PS & ZV.

Formica lemani Bondroit, 1917

1 w: 161: Dealurile Sălajului (Szilágymenti-dombság), Derşida (Kisderzsida), pasture, 10.05.2015, N47.398° E22.814°; sweeping, AGr, OM, AP & VSz.

Formica pratensis Retzius, 1783

2 ww: 108: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireş (Egrespatak), dry swards, 30.09.2014, N47.157° E22.992°; soil sample, light trap, pitfall traps, ZsB, LD, GK & DM. – 2 ♀♀, 5 ww: 167: Culoarul Someşului (Szamos völgye), Surduc (Szurduk), pasture, 11.05.2015, N47.291° E23.374°; hand collecting, AGr, OM, AP & VSz. – 1 w: 184:

Munții Meseșului (Meszes-hegység), Poic, wet meadow, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz. – 5 ww: 195: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward, 13.05.2015, N47.157° E22.994°; sweeping, beating, AGr, OM, AP & VSz. – 1 ♀, 5 ww: 201: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, pasture, 13.05.2015, N47.11° E22.659°; sweeping, hand collecting, AGr, OM, AP & VSz. – 3 ww: 227: Munții Meseșului (Meszes-hegység), rocky roadside with ruderal vegetation, 14.07.2015, N47.1217° E23.0966°; hand collecting, ZE, AK, PS & ZV. – 3 ww: 228: Munții Meseșului (Meszes-hegység), Treznea (Ördögkút), alongside creek, wet meadow, 14.07.2015, N47.1091° E23.0728°; hand collecting, ZE, AK, PS & ZV. – 3 ww: 232: Munții Meseșului (Meszes-hegység), Poic, marshy meadow, 14.07.2015, N46.9842° E22.9199°; hand collecting, sweeping, ZE, AK, PS & ZV. – 2 ww: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV.

Formica rufa Linnaeus, 1761

2 ww: 181: Munții Meseșului (Meszes-hegység), Poic, alder groove, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz. – 1 w: 184: Munții Meseșului (Meszes-hegység), Poic, wet meadow, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz. – 3 ww: 217: Munții Meseșului (Meszes-hegység), Zaláu (Zilah), Hegyes-hegy, beech forest, 28.05.2015, N47.14075° E23.08425°; pitfall traps, ZsB, AGu & GK.

Formica rufibarbis Fabricius, 1793

4 ww: 102: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), 30.09.2014, N47.157° E22.992°; light trap, ZsB, LD, GK & DM. – 1 w: 112: Munții Meseșului (Meszes-hegység), Pria (Perje), SW slope of Vf. Măgura Priei (Perjei csúcs), 01.10.2014, N47.0056° E22.89196°; soil sample, sweeping, ZsB, LD, GK & DM. – 1 w: 116: Munții Meseșului (Meszes-hegység), W of Mesteacănu (Almásnyíres), 01.10.2014, N46.96701° E22.96668°; soil sample, ZsB, LD, GK & DM. – 3 ww: 162: Dealurile Sălajului (Szilágymenti-dombság), Borla (Szilágyballa), abandoned arable land, 10.05.2015, N47.265° E22.938°; sweeping, AGr, OM, AP & VSz. – 3 ww: 165 Culoarul Someșului (Szamos völgye), Surduc (Szurduk), pasture, 11.05.2015, N47.291° E23.374°; sweeping, beating, AGr, OM, AP & VSz. – 1 w: 184: Munții Meseșului (Meszes-hegység), Poic, wet meadow, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz. – 1 w: 227: Munții Meseșului (Meszes-hegység), rocky roadside with ruderal vegetation, 14.07.2015, N47.1217° E23.0966°; hand collecting, ZE, AK, PS & ZV. – 1 ♀, 3 ww: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV. – 1 w: 248: Munții Plopiș (Réz-hegység), Tusa (Tuszatélke), Barcău (Berettyó)

springs, wet pasture, 16.07.2015, N47.0196° E22.7519°; hand collecting, sweeping, ZE, AK, PS & ZV. – 1 w: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, PS & ZV. – 2 ww: 253: Dealurile Crasnei (Krasznamenti-dombság), Vârșoț (Varsolc), Vârșoț Reservoir, waterside in waterworks territory, 17.07.2015, N47.1931° E22.9069°; hand collecting, ZE, AK, PS & ZV. – 1 w: 267: Dealurile Sălajului (Szilágymenti-dombság), Zaláu-Ortelec (Zilah-Vártelek), oak forest on the top of the hill, semi-natural steppe, 09.09.2015, N47.211599° E23.133539°; sweeping, leaf-hoover, AGu, AO, LR & MT.

Lasius alienus (Förster, 1850)

3 ww: 108: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 30.09.2014, N47.157° E22.992°; soil sample, light trap, pitfall traps, ZsB, LD, GK & DM. – 4 ww: 116: Munții Meseșului (Meszes-hegység), W of Mesteacănu (Almásnyíres), 01.10.2014, N46.96701° E22.96668°; soil sample, ZsB, LD, GK & DM. – 2 ww: 161: Dealurile Sălajului (Szilágymenti-dombság), Derșida (Kisderzsida), pasture, 10.05.2015, N47.398° E22.814°; sweeping, AGr, OM, AP & VSz. – 1 w: 170: Culoarul Someșului (Szamos völgye), Cliț (Csúrfalva), hornbeam-oak forest, 11.05.2015, N47.284° E23.439°; hand collecting, AGr, OM, AP & VSz. – 1 w: 184: Munții Meseșului (Meszes-hegység), Poic, wet meadow, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz.

Lasius bicornis (Förster, 1850)

1 ♀: 232: Munții Meseșului (Meszes-hegység), Poic, marshy meadow, 14.07.2015, N46.9842° E22.9199°; hand collecting, sweeping, ZE, AK, PS & ZV. – 1 ♀, 2 ♂♂: 237: Dealurile Crasnei (Krasznamenti-dombság), between Crasna (Kraszna) and Zaláu (Zilah) city border, 15.07.2015; netting with car, ZV.

Lasius emarginatus (Olivier, 1792)

6 ww: 227: Munții Meseșului (Meszes-hegység), rocky roadside with ruderal vegetation, 14.07.2015, N47.1217° E23.0966°; hand collecting, ZE, AK, PS & ZV.

Lasius flavus (Fabricius, 1782)

1 w: 116: Munții Meseșului (Meszes-hegység), W of Mesteacănu (Almásnyíres), 01.10.2014, N46.96701° E22.96668°; soil sample, ZsB, LD, GK & DM. – 3 ww: 124: Munții Plopiș (Réz-hegység), Tusa (Tuszatélke), Ponor, 02.10.2014, N47.0148° E22.74496°; sweeping, hand collecting, soil sample, ZsB, LD, GK & DM. – 1 ♀: 165: Culoarul Someșului (Szamos völgye), Surduc (Szurduk), pasture, 11.05.2015, N47.291° E23.374°; sweeping, beating, AGr, OM, AP & VSz. – 5 ww: 201: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, pasture, 13.05.2015, N47.11° E22.659°; sweeping,

hand collecting, AGr, OM, AP & VSz. – 1 w: 225: Munții Meseșului (Meszes-hegység), beech forest, 14.07.2015, N47.1448° E23.0854°; hand collecting, ZE, AK, PS & ZV.

Lasius fuliginosus (Latreille, 1798)

5 ww: 167: Culoarul Someșului (Szamos völgye), Surduc (Szurduk), pasture, 11.05.2015, N47.291° E23.374°; hand collecting, AGr, OM, AP & VSz. – 1 w: 184: Munții Meseșului (Meszes-hegység), Poic, wet meadow, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz.

Lasius myops Forel, 1894

2 ww: 124: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Ponor, 02.10.2014, N47.0148° E22.74496°; sweeping, hand collecting, soil sample, ZsB, LD, GK & DM.

Lasius niger (Linnaeus, 1758)

5 ww: 102: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), 30.09.2014, N47.157° E22.992°; light trap, ZsB, LD, GK & DM. – 2 ww: 112: Munții Meseșului (Meszes-hegység), Pria (Perje), SW slope of Vf. Măgura Priei (Perjei csúcs), 01.10.2014, N47.0056° E22.89196°; soil sample, sweeping, ZsB, LD, GK & DM. – 2 ww: 116: Munții Meseșului (Meszes-hegység), W of Mesteacănu (Almásnyíres), 01.10.2014, N46.96701° E22.96668°; soil sample, ZsB, LD, GK & DM. – 1 w: 119: Depresiunea Almaș-Agrij (Almás-Egregy-medence), NE of Ciomărna (Csömörlő), 01.10.2014, N47.12676° E23.15201°; soil sample, ZsB, LD, GK & DM. – 1 w: 123: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Ponor, 02.10.2014, N47.01195° E22.7421°; hand collecting, soil sample, ZsB, LD, GK & DM. – 4 ww: 162: Dealurile Sălajului (Szilágymenti-dombság), Borla (Szilágyballa), abandoned arable land, 10.05.2015, N47.265° E22.938°; sweeping, AGr, OM, AP & VSz. – 1 w: 184: Munții Meseșului (Meszes-hegység), Poic, wet meadow, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz. – 7 ww: 200: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Barcău (Berettyó) springs, 13.05.2015, N47.02° E22.749°; hand collecting, AGr, OM, AP & VSz. – 2 ww: 230: Munții Meseșului (Meszes-hegység), Huta (Csákyújfalu), wet meadow with stacked beech logs, 14.07.2015, N47.0164° E22.9663°; hand collecting, ZE, AK, PS & ZV. – 1 ♀, 1 ♂: 232: Munții Meseșului (Meszes-hegység), Poic, marshy meadow, 14.07.2015, N46.9842° E22.9199°; hand collecting, sweeping, ZE, AK, PS & ZV. – 1 w: 233: Dealurile Crasnei (Krasznamenti-dombság), Zalău (Zilah), apartment balcony, 14.07.2015, N47.1807° E23.0559°; hand collecting, ZE, AK, PS & ZV. – 5 ww: 236: Dealurile Crasnei (Krasznamenti-dombság), Crasna (Kraszna), near Vârșoț (Varsolc) reservoir, willows and wet meadow, 15.07.2015, N47.1776° E22.8891°; hand collecting, sweeping, PS & ZV. – 1 ♀: 237: Dealurile Crasnei (Krasznamenti-dombság), between Crasna (Kraszna) and Zalău (Zilah) city border, 15.07.2015; netting with car, ZV. – 1 w: 248: Munții Plopiș (Réz-

hegység), Tusa (Tuszatelke), Barcău (Berettyó) springs, wet pasture, 16.07.2015, N47.0196° E22.7519°; hand collecting, sweeping, ZE, AK, PS & ZV. – 1 w: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, PS & ZV.

Lasius paralienus Seifert, 1992

2 ww: 108: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 30.09.2014, N47.157° E22.992°; soil sample, light trap, pitfall traps, ZsB, LD, GK & DM. – 3 ww: 119: Depresiunea Almaș-Agrij (Almás-Egregy-medence), NE of Ciomărna (Csömörlő), 01.10.2014, N47.12676° E23.15201°; soil sample, ZsB, LD, GK & DM. – 4 ww: 160: Dealurile Sălajului (Szilágymenti-dombság), Derșida (Kisderzsida), pasture with oak logs, 10.05.2015, N47.398° E22.814°; hand collecting, AGr, OM, AP & VSz. – 3 ww: 161: Dealurile Sălajului (Szilágymenti-dombság), Derșida (Kisderzsida), pasture, 10.05.2015, N47.398° E22.814°; sweeping, AGr, OM, AP & VSz. – 1 w: 170: Culoarul Someșului (Szamos völgye), Cliț (Csúrfalva), hornbeam-oak forest, 11.05.2015, N47.284° E23.439°; hand collecting, AGr, OM, AP & VSz. – 1 w: 184: Munții Meseșului (Meszes-hegység), Poic, wet meadow, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz. – 3 ww: 218: Depresiunea Almaș-Agrij (Almás-Egregy-medence), Ugruțiu (Ugróc), 28.05.2015, N47.025783° E23.350829°; hand collecting, ZsB, AGu & GK. – 3 ww: 267: Dealurile Sălajului (Szilágymenti-dombság), Zalău-Ortelec (Zilah-Vártelek), oak forest on the top of the hill, semi-natural steppe, 09.09.2015, N47.211599° E23.133539°; sweeping, leaf-hoover, AGu, AO, LR & MT.

Lasius platythorax Seifert, 1991

2 ww: 112: Munții Meseșului (Meszes-hegység), Pria (Perje), SW slope of Vf. Măgura Priei (Perjei csúcs), 01.10.2014, N47.0056° E22.89196°; soil sample, sweeping, ZsB, LD, GK & DM. – 1 w: 119: Depresiunea Almaș-Agrij (Almás-Egregy-medence), NE of Ciomărna (Csömörlő), 01.10.2014, N47.12676° E23.15201°; soil sample, ZsB, LD, GK & DM. – 1 w: 162: Dealurile Sălajului (Szilágymenti-dombság), Borla (Szilágyballa), abandoned arable land, 10.05.2015, N47.265° E22.938°; sweeping, AGr, OM, AP & VSz. – 3 ww: 165: Culoarul Someșului (Szamos völgye), Surduc (Szurduk), pasture, 11.05.2015, N47.291° E23.374°; sweeping, beating, AGr, OM, AP & VSz. – 6 ww: 186: Munții Meseșului (Meszes-hegység), Poic, spruce plantation, 12.05.2015, N46.971° E22.946°; hand collecting, AGr, OM, AP & VSz. – 1 w: 228: Munții Meseșului (Meszes-hegység), Treznea (Ördögkút), alongside creek, wet meadow, 14.07.2015, N47.1091° E23.0728°; hand collecting, ZE, AK, PS & ZV. – 1 w: 231: Munții Meseșului (Meszes-hegység), Huta (Csákyújfalu), creek valley, beech forest, 14.07.2015, N46.9936° E22.9285°; hand collecting, ZE, AK, PS & ZV. – 5 ww: 248: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Barcău

(Berettyó) springs, wet pasture, 16.07.2015, N47.0196° E22.7519°; hand collecting, sweeping, ZE, AK, PS & ZV. – 1 w: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, PS & ZV.

Plagiolepis pygmaea (Latreille, 1798)

1 w: 60A: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 02-03.06.2014, N47.157° E22.992°; sweeping, hand collecting, pitfall traps, AO, GP, ZS & MT. – 2 ww: 234: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 15.07.2015, N47.1571° E22.9937°; hand collecting, sweeping, PS & ZV. – 1 w: 252: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and abandoned orchard, 16.07.2015, N47.1569° E22.9923°; light trap, PS & ZV. – 3 ww: 267: Dealurile Sălajului (Szilágymenti-dombság), Zaláu-Ortelec (Zilah-Vártelek), oak forest on the top of the hill, semi-natural steppe, 09.09.2015, N47.211599° E23.133539°; sweeping, leaf-hoover, AGu, AO, LR & MT.

Myrmicinae

Myrmecina graminicola (Latreille, 1802)

5 ww: 108: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 30.09.2014, N47.157° E22.992°; soil sample, light trap, pitfall traps, ZsB, LD, GK & DM. – 2 ww: 123: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Ponor, 02.10.2014, N47.01195° E22.7421°; hand collecting, soil sample, ZsB, LD, GK & DM.

Myrmica lonae Finzi, 1926

1 w: 108: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 30.09.2014, N47.157° E22.992°; soil sample, light trap, pitfall traps, ZsB, LD, GK & DM.

Myrmica rubra (Linnaeus, 1758)

1 ♂: 123: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Ponor, 02.10.2014, N47.01195° E22.7421°; hand collecting, soil sample, ZsB, LD, GK & DM. – 14 ww: 163: Dealurile Crasnei (Krasznamenti-dombság), Zaláu (Zilah), churchyard, 11.05.2015, N47.18° E23.056°; from beneath stones, AGr, OM, AP & VSz. – 3 ww: 184: Munții Meseșului (Meszes-hegység), Poic, wet meadow, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz. – 2 ww: 226: Munții Meseșului (Meszes-hegység), beech forest, 14.07.2015, N47.1383° E23.0847°; hand collecting, ZE, AK, PS & ZV. – 1 w: 228: Munții Meseșului (Meszes-hegység), Treznea (Ördögkút), alongside creek, wet meadow, 14.07.2015, N47.1091° E23.0728°; hand collecting, ZE, AK, PS & ZV. – 13 ww: 264: Munții Meseșului (Meszes-hegység), Poic, marshy meadow, 08.09.2015, N46.984929° E22.920089°; sweeping, leaf-hoover, AGu, AO, LR & MT.

Myrmica ruginodis Nylander, 1846

1 w: 108: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 30.09.2014, N47.157° E22.992°; soil sample, light trap, pitfall traps, ZsB, LD, GK & DM. – 3 ww: 112: Munții Meseșului (Meszes-hegység), Pria (Perje), SW slope of Vf. Măgura Priei (Perjei csúcs), 01.10.2014, N47.0056° E22.89196°; soil sample, sweeping, ZsB, LD, GK & DM. – 2 ww: 176: Depresiunea Almaș-Agrij (Almás-Egrecy-medence), Tihău (Tihó), Almaș valley, streamside, 11.05.2015, N47.232° E23.316°; hand collecting, AGr, OM, AP & VSz. – 15 ww: 181: Munții Meseșului (Meszes-hegység), Poic, alder groove, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz. – 1 w: 186: Munții Meseșului (Meszes-hegység), Poic, spruce plantation, 12.05.2015, N46.971° E22.946°; hand collecting, AGr, OM, AP & VSz. – 3 ww: 190: Munții Meseșului (Meszes-hegység), Poic, beech forest, 12.05.2015, N46.994° E22.93°; hand collecting, AGr, OM, AP & VSz. – 3 ww: 214: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Ponor Plateau, above Barcău (Berettyó) springs, beech forest, 28.05.2015, N47.01001° E22.72269°; pitfall traps, ZsB, AGu & GK. – 3 ww: 216: Munții Meseșului (Meszes-hegység), Poic, Satul Hurez (Bagolyfalu), beech forest, 28.05.2015, N47.00388° E22.92205°; pitfall traps, ZsB, AGu & GK. – 8 ww: 225: Munții Meseșului (Meszes-hegység), beech forest, 14.07.2015, N47.1448° E23.0854°; hand collecting, ZE, AK, PS & ZV. – 2 ww: 231: Munții Meseșului (Meszes-hegység), Huta (Csákyújfalú), creek valley, beech forest, 14.07.2015, N46.9936° E22.9285°; hand collecting, ZE, AK, PS & ZV. – 1 w: 236: Dealurile Crasnei (Krasznamenti-dombság), Crasna (Kraszna), near Vârșoț (Varsolc) reservoir, willows and wet meadow, 15.07.2015, N47.1776° E22.8891°; hand collecting, sweeping, flight intercept trap, PS & ZV. – 1 w: 264: Munții Meseșului (Meszes-hegység), Poic, marshy meadow, 08.09.2015, N46.984929° E22.920089°; sweeping, leaf-hoover, AGu, AO, LR & MT.

Myrmica sabuleti Meinert, 1861

1 w: 267: Dealurile Sălajului (Szilágymenti-dombság), Zaláu-Ortelec (Zilah-Vártelek), oak forest on the top of the hill, semi-natural steppe, 09.09.2015, N47.211599° E23.133539°; sweeping, leaf-hoover, AGu, AO, LR & MT.

Myrmica specioides Bondroit, 1918

1 w: 107: Dealurile Crasnei (Krasznamenti-dombság), Crasna (Kraszna), Vârșoț (Varsolc) Reservoir, 30.09.2014, N47.177° E22.889°; pitfall traps, soil sample, ZsB, LD, GK & DM. – 1 w: 108: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 30.09.2014, N47.157° E22.992°; soil sample, light trap, pitfall traps, ZsB, LD, GK & DM. – 2 ♀♀, 2 ww: 112: Munții Meseșului (Meszes-hegység), Pria (Perje), SW slope of Vf. Măgura Priei (Perjei csúcs), 01.10.2014, N47.0056° E22.89196°; soil sample, sweeping, ZsB, LD, GK & DM. – 5 ww: 119: Depresiunea Almaș-

Agrij (Almás-Egregy-medence), NE of Ciumărna (Csömörölő), 01.10.2014, N47.12676° E23.15201°; soil sample, ZsB, LD, GK & DM. – 1 w: 163: Dealurile Crasnei (Krasznamenti-dombság), Zalău (Zilah), churchyard, 11.05.2015, N47.18° E23.056°; from beneath stones, AGr, OM, AP & VSz. – 1 ♀: 167: Culoarul Someșului (Szamos völgye), Surduc (Szurduk), pasture, 11.05.2015, N47.291° E23.374°; hand collecting, AGr, OM, AP & VSz. – 2 ww: 184: Munții Meseșului (Meszes-hegység), Poic, wet meadow, 12.05.2015, N46.98° E22.925°; sweeping, AGr, OM, AP & VSz.

Solenopsis fugax (Latreille, 1798)

1 w: 108: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 30.09.2014, N47.157° E22.992°; soil sample, light trap, pitfall traps, ZsB, LD, GK & DM. – 5 ww: 124: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Ponor, 02.10.2014, N47.0148° E22.74496°; sweeping, hand collecting, soil sample, ZsB, LD, GK & DM.

Stenamma debile (Förster, 1850)

1 w: 123: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Ponor, 02.10.2014, N47.01195° E22.7421°; hand collecting, soil sample, ZsB, LD, GK & DM.

Mutillidae (det. J. Muskovits)

Mutillinae

Mutilla europaea Linnaeus, 1758

1 ♀: 57: Dealurile Crasnei (Krasznamenti-dombság), Crasna (Kraszna), Vârșoț (Varsolc) Reservoir, 02.06.2014, N47.177° E22.889°; pitfall traps, AO, GP, ZS & MT.

Physetopoda halensis (Fabricius, 1787)

2 ♂♂: 252: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry sward with loess wall and orchard, 16.07.2015, N47.1569° E22.9923°; light trap, PS & ZV.

Pompilidae (det. Z. Vas)

Pepsinae

Priocnemis perturbator (Harris, 1780)

1 ♀: 47: Dealurile Sălajului (Szilágymenti-dombság), Aluniș (Szamosszéplak), oak forest, 22.05.2014, N47.37144° E23.26666°; bottle traps baited with wine and banana, ZsB, AGu, GK & CsK. – 1 ♀: 217: Munții Meseșului (Meszes-hegység), Zalău (Zilah), Hegyes-hegy, beech forest, 28.05.2015, N47.14075° E23.08425°; pitfall traps, ZsB, AGu & GK.

Pompilinae

Arachnospila abnormis (Dahlbom, 1842)

1 ♀: 108: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 30.09.2014, N47.157° E22.992°; pitfall traps, ZsB, LD, GK & DM. – Remark: *Arachnospila abnormis* is a quite rare spider wasp species in Europe (Móczár, 1956, Wolf, 1972).

Arachnospila anceps (Wesmael, 1851)

1 ♀: 108: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 30.09.2014, N47.157° E22.992°; pitfall traps, ZsB, LD, GK & DM.

Episyron arrogans (Smith, 1873)

1 ♀: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, flight intercept trap, PS & ZV.

Evagetes gibbulus (Lepelletier 1845)

1 ♀: 32: Dealurile Crasnei (Krasznamenti-dombság), Aghireș (Egrespatak), dry swards, 20.05.2014, N47.15716° E22.99252°; pitfall traps, ZsB, AGu, GK & CsK.

Sapygiidae (det. Z. Vas)

Sapygina decemguttata (Jurine, 1807)

1 ♀: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, flight intercept trap, PS & ZV. – Remark: *Sapygina decemguttata* is considered to be a rare but widespread species in Europe (Bajári, 1956).

Scoliidae (det. Z. Vas)

Scoliinae

Scolia hirta (Schrank, 1781)

1 ♀: 260: Depresiunea Almaș-Agrij (Almás-Egregy-medence), Sfăraș (Farnas), open and closed swards on gypsum, 08.09.2015, N46.897406° E23.100392°; specimen photographed, LR & MT.

Tiphidae (det. Z. Vas)

Tiphinae

Tiphia femorata Fabricius, 1775

1 ♀: 250: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, mixed vegetation, 16.07.2015, N47.1108° E22.6602°; hand collecting, sweeping, flight intercept trap, PS & ZV.

Tiphia unicolor Lepelletier, 1845

1 ♀: 248: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Barcău (Berettyó) springs, wet pasture, 16.07.2015, N47.0196° E22.7519°; hand collecting, sweeping, ZE, AK, PS & ZV.

Vespididae (det. Z. Vas)

Eumeninae

Euodynerus notatus (Jurine, 1807)

1 ♀: 60A: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 02-03.06.2014, N47.157° E22.992°; sweeping, hand collecting, AO, GP, ZS & MT.

Gymnomerus laevipes (Shuckard, 1837)

1 ♀: 57: Dealurile Crasnei (Krasznamenti-dombság), Crasna (Kraszna), Vârșoț (Varsolc)

Reservoir, 02.06.2014, N47.177° E22.889°; sweeping, hand collecting, pitfall traps, AO, GP, ZS & MT.

Microdynerus nugdunensis (Saussure, 1855)

1 ♀: 228: Munții Meseșului (Meszes-hegység), Treznea (Ördögkút), alongside creek, wet meadow, 14.07.2015, N47.1091° E23.0728°; hand collecting, ZE, AK, PS & ZV.

Microdynerus parvulus (Herrich-Schäffer, 1838)

1 ♂: 57: Dealurile Crasnei (Krasznamenti-dombság), Crasna (Kraszna), Vârșoț (Varsolc) Reservoir, 02.06.2014, N47.177° E22.889°; sweeping, hand collecting, AO, GP, ZS & MT.

Vespinae

Dolichovespula sylvestris (Scopoli, 1763)

1 w: 227: Munții Meseșului (Meszes-hegység), rocky roadside with ruderal vegetation, 14.07.2015, N47.1217° E23.0966°; hand collecting, ZE, AK, PS & ZV.

Polistes dominula (Christ, 1791)

1 w: 248: Munții Plopiș (Réz-hegység), Tusa (Tuszatelke), Barcău (Berettyó) springs, wet pasture, 16.07.2015, N47.0196° E22.7519°; hand collecting, sweeping, ZE, AK, PS & ZV. – 1 w: 253: Dealurile Crasnei (Krasznamenti-dombság), Vârșoț (Varsolc), Vârșoț Reservoir, waterside in waterworks territory, 17.07.2015, N47.1931° E22.9069°; hand collecting, ZE, AK, PS & ZV. – 3 ww: 254: Dealurile Crasnei (Krasznamenti-dombság), Crasna (Kraszna), Crasna (Kraszna) bridge, 17.07.2015, N47.162° E22.8762°; hand collecting, ZE, AK, PS & ZV.

Polistes nimpha (Christ, 1791)

2 ♀♀: 170: Culoarul Someșului (Szamos völgye), Cliț (Csúrfalva), hornbeam-oak forest, 11.05.2015, N47.284° E23.439°; hand collecting, AGr, OM, AP & VSz.

Vespa crabro Linnaeus, 1758

1 ♀: 60A: Dealurile Crasnei (Krasznamenti-dombság), W of Aghireș (Egrespatak), dry swards, 02-03.06.2014, N47.157° E22.992°; pitfall traps, AO, GP, ZS & MT.

Vespa germanica (Fabricius, 1793)

1 ♀: 201: Munții Plopiș (Réz-hegység), Iaz (Krasznajáz), Mlaștina de la Iaz, pasture, 13.05.2015, N47.11° E22.659°; sweeping, hand collecting, AGr, OM, AP & VSz.

Vespa vulgaris (Linnaeus, 1758)

1 ♀: 83: Munții Meseșului (Meszes-hegység), 1.5 km SW of Huta (Csákyújfalú), 12.08.2014, N46.994° E22.929°; pitfall traps, AGu, GK, AO & GP. – 1 w: 84: Dealurile Crasnei (Krasznamenti-dombság), Crasna (Kraszna), Vârșoț (Varsolc) Reservoir, 12.08.2014, N47.177° E22.889°; pitfall traps, AGu, GK, AO & GP.

CONCLUSIONS:

During the faunistic survey of HNHM in Sălaj County 45 species of aculeate wasps and 28 ant species were recorded. They mainly represent the common and widespread species; however, a few rare species were also found. As compared to the known species richness of aculeate wasps and ants in Central and Eastern Europe, the fauna of Sălaj County is still considered poorly known regarding the taxa examined in this paper.

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