

## Sawflies (Hymenoptera, Symphyta) of the Bohemian Forest and its foothills

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### Abstract

The sawflies (Hymenoptera, Symphyta) collected in the Bohemian Forest and its foothills during the summer months of 1981–1985 are listed. To gain a more comprehensive overview of symphytan fauna of the region, data published by former authors have been critically analysed and evaluated to give the most possibly comprehensive list of species. Altogether, 173 species (Xyelidae: 1, Pamphiliidae: 17, Argidae: 6, Cimbicidae: 6, Diprionidae: 5, Tenthredinidae: 126, Xiphydriidae: 1, Siricidae: 4, Cephidae: 5, and Orussidae: 1) are registered. Of these, three are registered as endangered and fifteen as vulnerable.

*Key words:* Symphyta, Šumava Mts., Böhmerwald, faunistics, host plants

### INTRODUCTION

In recent years several attempts to evaluate the symphytan fauna of some interesting central European montane regions have been published, e.g., from the Low Tatras National Park (ROLLER et al. 2006), Jizerské Hory Mts. (MACEK 2006), Bílé Karpaty Protected Landscape Area (MACEK 2012), and the Giant Mts. (BENEŠ 2013). However, the sawfly fauna of the Bohemian Forest (Šumava in Czech, Böhmerwald in German) has received in last 120 years only little attention and remained practically unknown. While the fauna of several groups of invertebrates (Coleoptera, Lepidoptera, Aranea, aquatic Crustacea, Ephemeroptera, Odonata, Plecoptera, Megaloptera, and Trichoptera) of the mountains and foothills comprising the Bohemian Forest is fairly well known, our knowledge of Symphyta is negligible, and only a few older publications mention this territory. GREGOR & BAŤA (1940–1942) did not, with some exceptions, refer to this region, as it was joined to Germany during World War II. The oldest and most comprehensive, but nearly forgotten, paper dealing with sawflies of this region is a list of Symphyta from the environs of the town of Kaplice (Kaplitz), published 160 years ago by KIRCHNER (1854). He listed 179 species of Symphyta from the surroundings of this town on the edge of the Novohradské Hory Mountains at an altitude of 550–600 m a.s.l. Only taxonomically stable species are listed. In many species he listed also “food plants” of the larvae; but most of them refer to plants, on which the species was found (see comment to *Xyela julii*), and are not included in the following list of species. STROBL (1895, 1896) listed 29 species of Symphyta from Prachatice and Kaplice. His collection was partly revised by Konow and is deposited in the Admont Museum. Though STROBL (1895, 1896) mentioned Kirchner’s paper, he evidently did not see his collection, as most specimens from Kaplice examined by him were collected by M. Schmidt-Göbel. Eight species, based mainly on published data of cited authors, were presented by GREGOR & BAŤA (1940–1942). As this region

was part of the Sudetenland during the existence of the “Protektorat von Böhmen und Mähren”, these data were mostly presented simply as from the “Böhmerwald”.

In the following years nothing was published and only recently BENEŠ (1987) described the larval morphology and ecology of two species of the genus *Tenthredo*, based on specimens from this region. HOLUŠA & LIŠKA (2004) listed five species of the genus *Cephalcia*, collected with use of Malaise traps located at Trojmezna Mt. and Jezerní Hora Mt. In a more detailed study on *Cephalcia*, HOLUŠA et al. (2007) listed seven species. HOLUŠA (2005) recorded *P. styx* as a species new to Bohemia. LISTON (2011) listed 117 species of Symphyta from the Bavarian Forest National Park (NP Bayerischer Wald). New records, based on material collected by the author during the summer months 1981–1985 include only species of summer aspect, represented mostly by the subfamily Tenthredininae. Due to early spring occurrence of many species (most Blennocampinae and Nematinae) the list of species is relatively short, comprising only 80 species. In an attempt to gain a more comprehensive overview of the symphytan fauna of this region, the papers by KIRCHNER (1854) and STROBL (1895, 1896) have been considered. However, critical analysis of Kirchner’s data would not be possible without use of the electronic database of Symphyta (TAEGER & BLANK 2011) and a literature database kindly provided by Dr. Andreas Taeger (DEI) that would enable an overview of taxonomy of this time as it was presented above all in the monographs of KLUG (1818) and HARTIG (1837, 1840). Only recently, their type specimens have been critically evaluated in the light of modern taxonomy. Nevertheless, in many cases it has become impossible to assess Kirchner’s names for certain species, for two main reasons.

(i) All older authors including Klug and Hartig did not select holotypes, which often resulted in their series of syntypes comprising assemblages of several species. Even when lectotypes have now been selected, a final solution is impossible without examination of Kirchner’s specimens.

(ii) In the last 160 years a great number of new species have been described. This often makes it impossible to associate Kirchner’s names with definite species. Even such a conspicuous species as *Tarpa plagioccephala* of former authors represents an assemblage of two species, of which the newly described *Megalodontes thor* Taeger, 2002 is much more common than *M. plagioccephalus*. Much more confusing is the situation affecting many nematine species. For example, *Nematus fallax* Serville, 1823 has now been synonymized with *Pachynematus fallax* Serville and *Nematus fallax* auct. is represented by three central European species (16 in northern Europe) of the *Amauronematus stenogaster* group (SCHMIDT 1987). In the following list of species only easily determinable species are included, while dubious species are omitted. For that reason many Kirchner’s records, particularly those of Nematinae are not included. They are omitted also in case when new records are available.

## MATERIAL AND METHODS

During July and August of 1981–1985, sawflies were collected either by sweeping of vegetation or by individual collecting, particularly in submontane and montane zones along the brooks and in forest stands, mostly within the borders of the Šumava National Park. Unless otherwise stated, all new records were collected (lgt.) and determined (det.) by the author. The following abbreviations are used: auct. – interpretation of a name by authors, that differs from that of the author of the original description; DEI – Senckenberg Deutsches Entomologisches Institut, Müncheberg; sic! – erroneous transcription; NMPC – National Museum Prague; lgt. MB – Martin Beneš legit.

The Central European system of mapping, established by EHRENDORFER & HAMANN (1965) has been generally accepted for faunistic research in the Czech Republic (PRUNER & MIKA

(1996). Grid squares in the map are delimited by latitudinal parallels (6×6 minutes) and meridians (10×10 minutes) with an approximate size of 11.2×12 km. Each square area is identified by four-figure code in which the first two figures refer to the row, the other two to the slope (Fig. 1). Most important localities with code of the field (in parentheses) in the faunistic and floristic grid mapping system of central Europe (PRUNER & MIKA 1996) are given: Borová Lada (7047–7048), Boubín Mt. (7048b), Horní Vltavice (7048c), Kaplice (7252), Kubova Huť (7048), Lipka (6948), Prachatice (6949), Obrovce Mt. (7048), Rohanov (6848), Stachy (6847), Sudslavice (6948), Švajglova Lada (7048), Vimperk (6948), Volary (7049), Zátouň (7049), and Zdíkov (6948a). Sporadic localities are cited with their grid numbers individually.

## LIST OF SPECIES

Nomenclature and general data on distribution follow TAEGER et al. (2010) and TAEGER & BLANK (2011). Food plants are given mainly following TAEGER et al. (1998). Species listed in the Red List of endangered species of the Czech Republic (MACEK 2005) as endangered are marked with “RL-EN“, vulnerable species as “RL-VU“. New records are arranged as follows: Localities with altitudes (in m a.s.l.), followed by grid map codes (in parentheses) in sporadic localities, number of females and males, date, food plant (plants) if known, and general distribution.

### Xyelidae

*Xyela julii* (Brébisson, 1818) – Published data: KIRCHNER (1854) as “*Xyela pusilla* Dalman; larvae on *Betula alba*.” Food plants: *Pinus* spp. Distribution: Palearctic region. Comment: For a long time birches were believed to be a food plant, as adults commonly feed on their

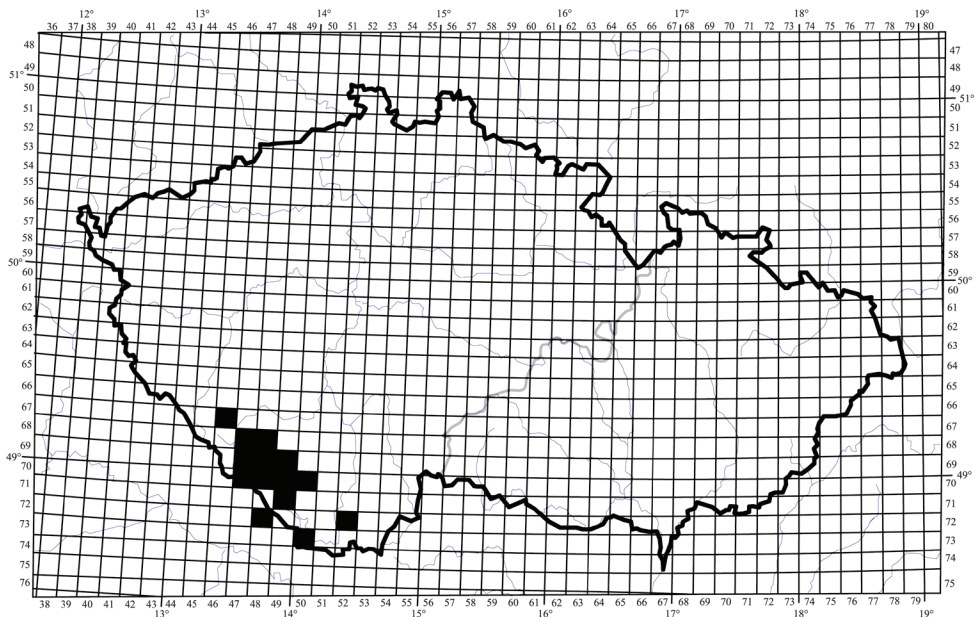


Fig. 1. Grid map of the Czech Republic with the marked study area.

pollen. All Kirchner's data on food plants must be considered to be of a similar nature. They are either incorrect or refer to plants on which adults of the species were found. That is why they are omitted in other species.

*Xyela obscura* (Strobl, 1895) – Published data: BLANK (2002) listed this species from the Bavarian part of Lusen (Luzný) Mt. Presence of this species on the Czech side of the border is highly probable. Food plant: *Pinus mugo*. Distribution: West Palaearctic region.

## Pamphiliidae

### Cephalciinae

*Acantholyda (Acantholyda) erythrocephala* (Linné, 1758) – Published data: KIRCHNER (1854) as *Lyda erythrocephala* L. Food plants: *Pinus* spp. Distribution: Palaearctic region; introduced to North America, where it became a serious pest of pines.

*Acantholyda (Itycorsia) posticalis pinivora* Enslin, 1918 – Published data: KIRCHNER (1854) as *Lyda pratensis* F.; STROBL (1895): Prachatice, 1 ♀, Handlirsch, as *Lyda stellata* Christ. Food plants: *Pinus* spp. Distribution: Palaearctic region.

*Caenolyda reticulata* (Linné, 1758) – Published data: STROBL (1895): Prachatice, 1 ♀, Handlirsch, as *Lyda reticulata* L. Food plants: *Pinus* spp. Distribution: Europe; rare and local species.

*Cephalcia abietis* (Linné, 1758) – Published data: STROBL (1895): Prachatice, 1 ♀, Handlirsch, as *Lyda hypotrophica* Ht.; HOLUŠA & LIŠKA (2004), HOLUŠA et al. (2007): Trojmezná Mt., 1230 m (7248) and Jezerní Hora Mt., 1180 m (6845). Food plant: *Picea abies*. Distribution: Palaearctic region; serious pest of spruce.

*Cephalcia alashanica* Gussakovskij, 1935 – Published data: HOLUŠA et al. (2007): Trojmezná Mt., 1230 m (7248) and Jezerní Hora Mt., 1180 (6746). Material examined: Lipka, 950 m, 1 ♀, 5 Aug 1984, lgt. MB. Food plants: *Picea* spp. Distribution: Palaearctic region.

*Cephalcia alpina* (Klug, 1808) – Published data: HOLUŠA & LIŠKA (2004) and HOLUŠA et al. (2007) recorded it at Trojmezná Mt., 1230 m (7248) and Jezerní Hora Mt., 1180 m (6845). Food plants: *Picea abies*, *P. obovata*. Distribution: Palaearctic region.

*Cephalcia annulicornis* (Hartig, 1837) – Published data: HOLUŠA et al. (2007): Jezerní Hora Mt., 1180 m (6845). Food plant: *Picea abies*. Distribution: Central and northern Europe.

*Cephalcia arvensis* Panzer, 1803 – Published data: HOLUŠA & LIŠKA (2004) and HOLUŠA et al. (2007) recorded it from Jezerní Hora Mt., 1180 m (6845) and Trojmezná Mt., 1230 m (7248). Material examined: Boubín Mt., 1000 m, 1 ♀, 3 Jul 1981; Horní Hutě, 1000 m (6947), 1 ♀, 8 Jul 1981; Hut' pod Boubínem, 900 m (7048), 1 ♀, 8 Jul 1985; Lipka 900 m, 1 ♀, 950 m, 15 Jul 1985; Obrovec Mt., 1050 m, 1 ♀, 15 Jul 1985; Šerava, 1050 m, 1 ♀, 15 Jul 1985; Švajglova Lada, 1040 m, 1 ♀, 9 Jul 1981; Zdíkov, 750 m, 1 ♀, 8 Jul 1985. Food plants: *Picea* spp. Distribution: Palaearctic region.

*Cephalcia erythrogaster* (Hartig, 1837) – Published data: HOLUŠA & LIŠKA (2004) and HOLUŠA et al. (2007) recorded it from Jezerní Hora Mt., 1180 m (6845) and Trojmezná Mt., 1230 m (7248). Food plants: *Picea* spp. Distribution: Palaearctic region.

*Cephalcia hartigii* (Breimi-Wolf, 1849); RL-EN – Published data: BENEŠ (1976): Frymburk (7350 or 6748; Frimb.), 1 ♀, 30 May 1900, lgt. A. Kubes, coll. NMPC. Food plant: *Abies alba*. Distribution: West Palaearctic. Comment: From the locality label it is not obvious to which of these two localities it belongs.

*Cephalcia lariciphila* (Wachtl, 1898) – Material examined: Pláně, 1050 m (6947), 1 ♀, 20 Jul 1982. Food plant: *Larix* spp. Distribution: Palaearctic region.

*Cephalcia masuttii* Battisti & Boato, 1998 – Published data: HOLUŠA et al. (2007) recorded it from Jezerní Hora Mt., 1180 m (6845). Food plant: *Picea* spp. Distribution: Palaearctic region.

## Pamphiliinae

*Pamphilius balteatus* (Fallén, 1808) – Material examined: Lipka, 850 m, 19 Aug 1985, larva on *Rosa* sp.; Obrovec Mt., 1050 m, 1 ♀, 15 Jul 1985; Pláně, 1050 m (6947), 1 ♀, 20 Jul 1982. Food plants: *Rosa* spp. Distribution: Palaearctic region.

*Pamphilius gyllenhali* (Dahlbom, 1835) – Material examined: Rohanov, 750 m, 14 Aug 1985, leaf rolls on *Salix caprea*. Food plants: *Salix* sect. *Vetrix*. Distribution: Europe.

*Pamphilius hortorum* (Klug, 1808) – Material examined: Světlá Hora Mt., 1000 m (7048), 1 ♀, 4 Jul 1985, lgt. MB. Food plant: *Rubus idaeus*. Distribution: Palaearctic region.

*Pamphilius kontuniemii* Shinohara, 2003 – Published data: SHINOHARA (2003): Boubín Mt., Zátoň. Material examined: Boubín Mt., 1000 m, 3 Jul 1981, larvae in leaf rolls on *Alnus incana*. Food plant: *Salix incana*. Distribution: Europe.

*Pamphilius sylvaticus* (Linné, 1758) – Material examined: Horní Hutě, 1000 m (6947), 7 Jul 1981, larvae in leaflet rolls on *Sorbus aucuparia*; Zdíkov, 750 m, 1 ♀, 8 Jul 1985. Food plants: Rosaceae (*Crataegus* spp., *Prunus* spp., *Sorbus aucuparia*). Distribution: West Palaearctic region.

*Pamphilius vafer* (Linné, 1767) – Published data: KIRCHNER (1854) as *Lyda depressa* Schr. Food plant: *Alnus glutinosa*. Distribution: Europe, ? Siberia.

## Argidae

*Arge berberidis* Schrank, 1802 – Published data: KIRCHNER (1854) as *Hylotoma berberidis*; STROBL (1895): Kaplice, 1 ♀, 2 ♂, Schmidt-Göbel, as *H. berberidis* Schr. Food plant: *Berberis vulgaris*. Distribution: Palaearctic region.

*Arge nigripes* (Retzius, 1783) – Material examined: Borová Lada, 900 m, 11 Aug 1985, larvae on *Rosa* cf. *canina*. Food plants: *Rosa* spp. Distribution: Palaearctic region.

*Arge melanochoa* (Gmelin, 1790) – Published data: KIRCHNER (1854) as *Hylotoma femoralis* Kl. Food plants: *Crataegus* spp. Distribution: Palaearctic region.

*Arge ochropus* (Gmelin, 1790) – Published data: KIRCHNER (1854) as *Hylotoma rosarum* Fab.; STROBL (1895): Prachatice, 1 ♂, Handlirsch, as *A. rosae* Dg. Material examined: Zlatý Potok stream, 800 m (5947), 1 ♀, 21 Aug 1984. Food plants: *Rosa* spp. Distribution: Palaearctic region, introduced to North America; occasional pest of garden roses.

*Arge pagana* (Panzer, 1797) – Published data: KIRCHNER (1854) as *Hylotoma pagana* Panz. Food plants: *Rosa* spp. Distribution: Palaearctic and Oriental regions.

*Arge ustulata* (Linné, 1758)

Published data: KIRCHNER (1854) as *Hylotoma ustulata* L.; STROBL (1895): Prachatice, 1 ♀, 1 ♂, Handlirsch. Food plants: *Salix caprea*, *S. cinerea*, *S. aurita*, probably also other species of willows and birch. Distribution: Palaearctic region.

## Cimbicidae

### Abiinae

*Abia sericea* (Linné, 1767) Published data: KIRCHNER (1854) as *Abia sericea* L. Food plants: *Dipsacus* spp., *Knautia arvensis*, *Scabiosa* spp., *Succisa pratensis*. Distribution: Palaearctic and Oriental regions.

### Cimbicinae

*Cimbex luteus* (Linné, 1758); RL-VU – Published data: KIRCHNER (1854) as *Cimbex variabilis* Kl. Food plants: Salicaceae (*Populus* spp., *Salix* spp.). Distribution: Palaearctic region.

*Cimbex quadrimaculatus* (O.F. Müller, 1766); RL-VU – Published data: KIRCHNER (1854) as *Cimbex axillaris* Jur. Food plants: *Crataegus* spp., *Prunus armeniaca*. Probably also other



arborescent Rosaceae s.l. Distribution: West Palaearctic region.

*Pseudoclavellaria amerinae* (Linné, 1758); RL-VU – Published data: KIRCHNER (1854) as *Clavellaria amerinae* L.; STROBL (1895): Kaplice, 1 ♂, Kirchner. Food plants: Salicaceae (*Populus* spp., *Salix* spp.) Distribution: Palaearctic region.

*Trichiosoma lucorum* (Linné, 1758) – Published data: KIRCHNER (1854) as *Trichiosoma betuleti* Fab. and *T. lucorum* Fab. Larvae on *Salix* and *Alnus*; STROBL (1895): Prachatice, 1 ♂. Food plants: *Betula* spp. Distribution: Palaearctic region.

*Trichiosoma sorbi* Hartig, 1840 – Material examined: Světlá Hora Mt., 1040 m (6948), 1 ♀, 27 Jul 1982. Food plant: *Sorbus aucuparia*. Distribution: Central and north Europe, eastwards to West Siberia.

## Diprionidae

*Diprion pini* (Linné, 1758) Published data: KIRCHNER (1854) as *Lophyrus pini* L. Food plants: *Pinus* spp. Distribution: West Palaearctic region; occasional pest of pines.

*Gilpinia abieticola* (Dalla Torre, 1894) – Published data: STROBL (1895): Prachatice, 1 ♀, Handlirsch. Food plant: *Picea abies*. Distribution: Palaearctic region.

*Gilpinia polytoma* (Hartig, 1834) – Material examined: Světlá Hora Mt. (6948), 1040 m, 1 ♀, 27 Jul 1982. Food plants: *Picea* spp. Distribution: Palaearctic region.

*Gilpinia variegata* (Hartig, 1834) – Published data: KIRCHNER (1854) as *Lophyrus variegatus* Htg. Food plant: *Pinus sylvestris*. Distribution: Palaearctic region.

*Neodiprion sertifer* (Geoffroy, 1785) – Published data: KIRCHNER (1854) as *Lophyrus rufus*. Food plants: *Pinus* spp. Distribution: Palaearctic region; introduced to North America, where it became one of the most serious pests of pines.

## Tenthredinidae

### Allantinae

*Allantus (Allantus) viennensis* (Schrank, 1781) – Material examined: Vimperk, 700 m, 18 Aug 1985, larva on *Rosa* sp. Food plant: *Rosa canina* aggr. Distribution: Holarctic region.

*Ametastegia (Ametastegia) equiseti* (Fallén, 1808) – Material examined: Veselka, 950 m (6948), 1 ♂, 9 Aug 1982. Food plants: Polygonaceae (*Polygonum* s.l. spp., *Rumex* spp., *Fallopia convolvulus*). Distribution: Holarctic region.

*Ametastegia (Prottemphytus) pallipes* (Spinola, 1808) – Published data: KIRCHNER (1854) as *Emphytus pallipes* Kl. Food plants: Polyphagous on different herbs as *Viola*, etc. Distribution: Palaearctic and Nearctic regions.

*Apethymus apicalis* (Klug, 1818) – Published data: KIRCHNER (1854) as *Emphytus apicalis* Kl. Food plants: *Rosa* spp. Distribution: Europe.

*Apethymus filiformis* (Klug, 1818) – Published data: KIRCHNER (1854) as *Emphytus filiformis* Kl. Food plants: *Quercus* spp. Distribution: Europe.

*Athalia circularis* (Klug, 1815) – Material examined: Lipka, 850 m, 7 Jul 1981; Nicov, 950 m (6847), 1 ♂, 30 Jul 1982; Sudslavice, 620 m (6948), 1 ♀, 18 Jul 1984. Food plants: Lamiaceae, Scrophulariaceae (*Glechoma hederacea*, *Veronica beccabunga*). Distribution: Palaearctic region.

*Athalia rosae* (Linné, 1758) – Material examined: Kubova Hut', 1000 m, 1 ♀, 17 Aug 1984; Lipka, 900 m, 1 ♂, 27 Jul 1982; 950 m, 2 ♀, 5 Aug 1984; Vimperk, 700 m, 1 ♂, 25 Jul 1982, lgt. MB. Food plants: Brassicaceae (*Brassica* spp., *Sinapis* spp., including field cultures). Distribution: Palaearctic region; very common and widely distributed species.

*Empria candidata* (Fallén, 1808) – Published data: KIRCHNER (1854) as *Eriocampa repanda* Kl. Food plant: *Betula pendula*. Distribution: Holarctic region.

*Empria immersa* (Klug, 1818) – Material examined: Obrovec Mt., 1100 m, 1 ♂, 7 Jul 1982. Food plant: *Salix caprea*. Distribution: Europe.

*Empria liturata* (Gmelin, 1790) – Published data: KIRCHNER (1854) as *Poecilocoma impressa* Kl. Food plants: *Fragaria* spp., *Geum* spp. Distribution: Palaearctic region.

*Eriocampa ovata* (Linné, 1760) – Material examined: Hut' pod Boubínem, 900 m (6948), 1 ♀, 8 Jul 1985; Lipka, 850 m, 1 ♀, 9 Jul 1985; Šerava, 900 m, 1 ♀, 15 Jul 1985; Vimperk environs, 750 m., 2 ♀, 18 Jul 1982; 1 ♀, 22 Jul 1984. Food plants: *Alnus* spp. Distribution: Europe; introduced to USA and Canada.

*Eriocampa umbratica* (Klug, 1816) – Published data: KIRCHNER (1854) as *Eriocampa umbratica* Kl. Food plants: *Alnus* spp. Distribution: Europe.

*Harpiphorus lepidus* (Klug, 1818) – Published data: KIRCHNER (1854) as *Harpiphorus lepidus* Kl. Food plants: *Quercus* spp. Distribution: West Palaearctic region.

*Monostegia abdominalis* (Fabricius, 1788) – Material examined: Vimperk, 700 m, 23 Jul 1985, larvae on *Lysimachia vulgaris*, 3 ♀, ecl. 8 Aug 1985. Food plants: Primulaceae (*Lysimachia* spp., *Glax maritima*). Distribution: Palaearctic region.

*Taxonus agrorum* (Fallén, 1808) – Published data: KIRCHNER (1854) as *Taxonus nitidus* Kl. Food plant: *Rubus idaeus*. Distribution: Palaearctic region; common and widely distributed species.

#### Blennocampinae

*Blennocampa phyllocolpa* Viitasaari & Vikberg, 1985 – Material examined: Kvilda, 1000 m (6947c), Jul 1981, galls on *Rosa* cf. *canina*. Food plants: *Rosa* spp. Distribution: Palaearctic region.

*Eutomostethus ephippium* (Panzer, 1798) – Published data: KIRCHNER (1854) as *Blennocampa ephippium* Panz. Food plants: Poaceae. Distribution: Palaearctic, Nearctic and Oriental regions.

*Eutomostethus gagathinus* (Klug, 1816) – Published data: KIRCHNER (1854) as *Monophadnus gagathinus* Kl. Food plants probably Cyperaceae and/or Juncaceae. Distribution: Palaearctic region.

*Eutomostethus luteiventris* (Klug, 1816) – Material examined: Zdíkov, 750 m, 1 ♀, 8 Jul 1985. Food plants: *Juncus* spp. Distribution: Palaearctic region.

*Monophadnoides rubi* (T.W.Harris, 1845) – Material examined: Vimperk, 720 m, 30 Jul 1985, larva on *Geum* sp. Food plant: *Geum urbanum*. Distribution: Holarctic region.

*Periclista (Periclista) lineolata* (Klug, 1816) – Published data: KIRCHNER (1854) as *Blennocampa lineolata* Kl. Food plants: *Quercus* spp. Distribution: Europe.

*Phymatocera aterrima* (Klug, 1816) – Material examined: Volary, 800 m, observation on *Polygonatum verticilatum*. Food plants: *Convallaria majalis*, *Polygonatum* spp., *Streptopus amplexifolius*. Distribution: Palaearctic region.

*Rhadinocera (Rhadinoceraea) micans* (Klug, 1816); RL-VU – Published data: KIRCHNER (1854) as *Monophadnus micans* Kl. Food plants: *Iris pseudacorus*, *I. laevigatus*, and *I. spuria*. Distribution: Europe.

*Stethomostus fuliginosus* (Schrank, 1781) – Published data: KIRCHNER (1854) as *Blennocampa fuliginosa* Schrank. Food plants: *Ranunculus repens*, *R. sceleratus*. Distribution: Holarctic region.

*Stethomostus funereus* (Klug, 1816); RL-EN – Published data: KIRCHNER (1854) as *Monophadnus funereus* Kl. Food plant not known. Distribution: Europe.

#### Heterarthrinae

*Caliroa cerasi* (Linné, 1758) – Published data: KIRCHNER (1854) as *Eriocampa adumbrata*

Kl. Food plants: Larvae on wide spectrum of arborescent Rosaceae. Distribution: Palaearctic; introduced worldwide with cultivated Rosaceae.

*Endelomyia aethiops* (Gmelin, 1790) – Published data: KIRCHNER (1854) as *Blennocampa aethiopsis* Fab. (sic!) Food plants: *Rosa* spp. Distribution: Holarctic region.

*Fenusa pumila* Leach, 1817 – Material examined: Kubova Hut', 1000 m, 27 Jul 1985, mines and larvae on *Betula* spp. Food plants: *Betula* spp., *Alnus alnobetula*. Distribution: Holarctic region.

*Heterarthrus vagans* (Fallén, 1808) – Material examined: Hut' pod Boubínem, 900 m (6948), 1 ♀, 6 Jul 1985, on *Alnus incana*; Zdíkov, 750 m, 1 ♀, 8 Jul 1985. Food plants: *Alnus* spp. Distribution: Holarctic region.

#### Nematinae

*Cladius (Cladius) pectinicornis* (Geoffroy, 1785) – Published data: KIRCHNER (1854) as *Cladius difformis* Panz. Food plants: *Rosa* spp., probably also other herbaceous Rosaceae. Distribution: Holarctic and Oriental regions.

*Craesus septentrionalis* (Linné, 1758) – Published data: KIRCHNER (1854) as *Craesus septentrionalis* L. (sic!). Food plants: *Betula* spp., *Alnus* spp., *Corylus avellana*. Distribution: Palaearctic region.

*Dineura virididorsata* (Retzius, 1783) – Published data: KIRCHNER (1854) as *Dineura deegeri* Kl. (sic!); STROBL (1896): *D. geeri* Klg. (sic!): Kaplice, 1 ♂, Schmidt-Göbel. Food plants: *Betula pendula*, *B. pubescens*. Distribution: Palaearctic region. (POPOV & KAJMUK 2010).

*Dineura stilata* (Klug, 1816) – Published data: KIRCHNER (1854) as *Dineura stillata* Kl. Food plants: *Crataegus* spp., *Cotoneaster* spp. Distribution: Europe.

*Euura (Gemmura) cf. mucronata* (Hartig, 1837) – Published data: KIRCHNER (1854) as *Cryptocampus mucronatus* Mus. Klug; STROBL (1896): Kaplice, 1 ♀, Kirchner, as *C. saliceti* Fall. Food plants: *Salix* spp. Distribution: Palaearctic region. Comment: *E. mucronata* was recently split by KOPELKE (2001) into several monophagous and morphologically practically undistinguishable species. Of seven known Czech species (see BENEŠ 2014), most common are *E. mucronata* associated with *Salix aurita*, *E. nigratarsis* (Cameron) on *S. caprea*, and *E. gemmacinereae* Kopelke on *S. cinerea*.

*Euura testaceipes* (Brischke, 1883) – Material examined: Horní Vltavice, 850 m, 5 Jul 1981; Studnice near Stachy, 800 m (6847), 8 Aug 1981, galls on *Salix fragilis*. Food plants: *Salix alba*, *S. fragilis*. Distribution: Europe.

*Hemichroa australis* Serville, 1823 – Published data: KIRCHNER (1854) as *Leptocera alni* L. (sic!). Food plants: *Alnus* spp., *Betula* spp. Distribution: Palaearctic region.

*Hoplocampa testudinea* (Klug, 1816) – Published data: KIRCHNER (1854) as *Hoplocampa testudinea* Kl. Food plant: *Malus domestica*. Distribution: West Palaearctic region; introduced into Nearctic region.

*Nematinus fuscipennis* (Serville, 1823) – Material examined: Hut' pod Boubínem, 900 m (6948), 1 ♀, 8 Jul 1985; Lipka, 850 m, 2 ♂, 2 ♀, 9 Jul 1985; Pravětínský Potok stream, 800 m (6948), 2 ♀, 6 Jul 1982; on *Alnus incana*; Volary, 900 m, 1 ♂, 2 ♀, 6 Jul 1985, on *Alnus* sp.; Zdíkov, 750 m, 2 ♀, 8 Jul 1985. Food plants: *Alnus glutinosa*, *A. incana*. Distribution: Europe.

*Nematinus steini* (Blank, 1998) – Material examined: Bobík Mt., 1100 m (7049), 1 ♀, 6 Jul 1985, on *Alnus incana*. Food plants: *Alnus* spp. Distribution: Europe.

*Nematus (Kontuniemiana) ribesii* (Scopoli, 1763) – Published data: KIRCHNER (1854) as *Nematus ventricosus* Hart. and *N. flavipes* Hart. Food plant: *Ribes rubrum*. Distribution: Palaearctic region, introduced to North America.

*Nematus (Pteronidea) cadderensis* Cameron 1875 – Published data: MACEK & KULA (2014):



Ovesná environs, Planská (7050), 4 Jun 2005; Ktiš environs, Chlum Mt., 1191 m a.s.l. (7050), 26 Jun 2012, 2 larvae on *Betula pubescens*. Food plant: *Betula* spp. Distribution: Austria, Estonia, Finland, Germany, Great Britain.

*Nematus (Pteronidea) myosotidis* (Fabricius, 1804) – Published data: KIRCHNER (1854) as *Nematus myosotidis* Fab.; STROBL (1896): Kaplice, 1 ♂, Schmidt-Göbel. Food plants: Fabaceae (*Lathyrus pratensis*, *Vicia cracca*, probably also *Onobrychis* and *Trifolium* spp.). Distribution: West Palaearctic region.

*Nematus (Pteronidea) pavidus* Serville, 1823 – Material examined: Lipka, 950 m, 1 ♀, 25 Jul 1984. Food plants: *Salix* spp. Distribution: West Palaearctic region.

*Nematus (Pteronidea) viridis* Stephens, 1835 – Material examined: Bobík Mt., 1200 m (7049), 1 ♀, 6 Jul 1985, on *Betula*. Food plants: *Alnus* spp., *Betula* spp., *Corylus avellana*. Distribution: West Palaearctic.

*Pachynematus (Epicenematus) styx* (Benson, 1958 – Published data: HOLUŠA (2005): Jezerní Hora, 1180 m (6845). Food plant: *Picea abies*. Distribution: Palaearctic. From W and N Europe to Krasnoyarsk; rare and local species. HOLUŠA (2005) recorded it for the first time from Bohemia, so far it was known from Moravia only.

*Pachynematus (Pachynematus) obductus* (Hartig, 1837) – Published data: KIRCHNER (1854) as *Nematus obductus* Hart. Food plants: Cyperaceae, Poaceae (*Carex* spp., *Phleum pratense*). Distribution: Holarctic region.

*Pachynematus (Polynematus) annulatus* (Gimmerthal 1834) – Material examined: Nové Hutě, 1000 m (6947), 1 ♀, 10 Jul 1984. Food plant: Polygonaceae (*Rumex obtusifolius*). Distribution: Holarctic region.

*Phyllocolpa carinifrons* Benson, 1940 – Published data: BENEŠ (in print): Horní Vltavice, 850 m, 5 Jul 1981, galls on *Salix pentandra*. Food plant: *Salix pentandra*. Distribution: Europe.

*Pikonema scutellatum* (Hartig, 1837) – Published data: KIRCHNER (1854) as *Nematus scutellatus* Hart. Food plants: *Picea abies*, *P. obovata*. Distribution: Palaearctic region.

*Pontania (Eupontania) pedunculi* (Hartig, 1837) – Material examined: Vimperk environs, 750 m, 2 Jul 1981, galls on *Salix caprea*; Boubín Mt., 1000 m (7048b), 4 Jul 1981; Horní Vltavice, 850 m, 5 Jul 1981. Food plants: *Salix aurita*, *S. caprea*. Distribution: Europe; POPOV & KAJMUK (2010) and LEJEJ (2012) recorded it from Yakutia and Far East.

*Pontania (Eupontania) vesicator* (Bremi, 1849) – Material examined: Horní Vltavice, 850 m, 11 Jul 1981; Trhonín near Vimperk, 750 m (6948), 10 Aug 1981; Záblatí, 600 m (7049), 1 Aug 1985, large bean-like galls on *Salix purpurea*. Food plant: *Salix purpurea*. Distribution: Europe.

*Pontania (Eupontania) viminalis* (Linné, 1758) – Material examined: Vimperk environs, 750 m, 2 Jul 1981; Boubín Mt., 1000 m (7048), 4 Jul 1981; Horní Vltavice, 850 m, 5 Jul 1981; Lipka, 850 m, 8 Jul 1981; Nové Hutě at Pláně, 1000 m (6947); 11 Jul 1981; 17 Aug 1985; Trhonín near Vimperk, 750 m (6948), 10 Aug 1981; Záblatí, 600 m (7049), 1 Aug 1985; Churáňov, 1000 m (6947), 17 Aug 1985, galls on *Salix purpurea*. Food plant: *Salix purpurea*. Distribution: West Palaearctic region.

*Pontania (Pontania) bridgmanii* (Cameron, 1883) – Material examined: Vimperk environs, valley of Pravětínský Potok stream, 750 m, 2 Jul 1981; Boubín Mt., 1000 m (7048b), 4 Jul 1981, galls on *Salix* sp., sg. *Vetrix*. Food plants: *Salix caprea*, *S. cinerea*, *S. silesiaca*. Distribution: Palaearctic region.

*Pontania (Pontania) proxima* (Serville, 1823) – Material examined: Horní Vltavice, 850 m, 5 Jul 1981; Studnice near Stachy, 750 m (6948), 8 Aug 1981; Záblatí, 600 m (7049), 1 Aug 1985, galls on *Salix fragilis*. Food plants: *Salix alba*, *S. fragilis*. Distribution: Palaearctic region; introduced to Nearctic and Australasian regions.

*Pontania (Pontania) triandrae* Benson, 1941 – Material examined: Záblatí, 600 m (7049), 1 Aug 1985, galls on *Salix triandra*. Food plant: *Salix triandra*. Distribution: West Palaearctic.

*Pristiphora (Lygaeonematus) abietina* (Christ, 1791) – Material examined: Arnoštov, 900 m (7149), 17 Jul 1985, parasitized larva on *Picea abies*. Food plants: *Picea abies*, *P. obovata*. Distribution: Palaearctic region.

*Pristiphora (Lygaeonematus) nigriceps* (Hartig, 1840) – Published data: KIRCHNER (1854) as *Nematus nigriceps* Hart. Food plant: *Picea abies*. Distribution: West Palaearctic region.

*Pristiphora (Pristiphora) cincta* Newman, 1837 – Material examined: Javorník Mt., 1000 m (6847), 1 ♀, 9 Jul 1982. Food plants: *Betula* spp., *Vaccinium* spp. Distribution: Holarctic region.

*Pristiphora (Pristiphora) pallidiventris* (Fallén, 1808) – Published data: KIRCHNER (1854) as *Nematus ephippiger* Hart. Food plants: *Rubus* spp., *Filipendula ulmaria*. Distribution: Holarctic region; common and widely distributed species.

*Tubpontania purpureae* (Cameron, 1884) – Material examined: Nové Hutě at Pláně, 1000 m (6947), 11 Jul 1981; Churáňov, 1000 m (6947), 17 Aug 1985, galls on *Salix purpurea*. Food plant: *Salix purpurea*. Distribution: Europe.

### Selandriinae

*Aneugmenus coronatus* (Klug, 1818) – Published data: KIRCHNER (1854). Food plants: *Athyrium filix-femina* and other ferns. Distribution: Palaearctic region.

*Aneugmenus temporalis* (Thomson, 1871); RL-VU – Material examined: Vimperk environs, Pravěťtínský Potok stream, 730 m, 1 ♀, 7 Jul 1982. Food plant: *Pteridium aquilinum*. Distribution: Palaearctic region.

*Dolerus (Achaetoprion) madidus* (Klug, 1818) – Published data: KIRCHNER (1854) as *Dolerus madidus* Kl. Food plant: *Juncus effusus*. Distribution: Palaearctic region.

*Dolerus (Achaetoprion) triplicatus* (Klug, 1818); RL-VU – Material examined: Lipka, 850 m, 1 ♀, 9 Jul 1985. Food plant: *Juncus conglomeratus*. Distribution: Europe.

*Dolerus (Dicrodolerus) vestigialis* (Klug, 1818) – Published data: KIRCHNER (1854) as *Loderus vestigiatus* Kl (sic!); STROBL (1896): Kaplice, Schmidt-Göbel, as *Dolerus vestigialis* Kl. Material examined: Zdíkov, 750 m, 1 ♀, 8 Jul 1985. Food plants: *Equisetum* spp. Distribution: Europe.

*Dolerus (Dolerus) germanicus germanicus* (Fabricius, 1775) – Published data: KIRCHNER (1854) as *Dolerus Eglanteriae* Fab. Food plants: *Equisetum* spp. Distribution: Europe.

*Dolerus (Poodolerus) aeneus* Hartig, 1837 – Material examined: Bobík Mt., 900 m (7049), 1 ♂, 1 ♀, 6 Jul 1985; Horní Vltavice, 850 m, 1 ♀, 19 Jul 1982; Lipka, 950 m, 1 ♀, 4 Jul 1985, lgt. MB; Obrovec Mt., 1100 m, 2 ♀, 7 Jul 1982; 1050 m, 1 ♂, 4 Jul 1985, lgt. MB; Sudslavice, 650 m, 1 ♀, 18 Jul 1984. Food plants: Poaceae. Distribution: Palaearctic region.

*Dolerus (Poodolerus) cf. anthracinus* (Klug 1818) – Published data: KIRCHNER (1854) as *Dolerus anthracinus* K. Food plants: Poaceae. Distribution: Europe. Comment: It is not possible to exclude the very similar *D. (P.) nitens* Zaddach, 1859, described five years later.

*Dolerus (Poodolerus) gonager* (Fabricius, 1781) – Published data: KIRCHNER (1854) as *Dolerus gonager* Fabr. Food plants: Poaceae. Distribution: West Palaearctic region. Comment: Kirchner's record may refer also to *D. puncticollis* Thomson, 1871.

*Dolerus (Poodolerus) haematodes* (Schrank, 1781) – Published data: KIRCHNER (1854) as *Dolerus haematodes* Schrank. Food plants: Poaceae. Distribution: Palaearctic region.

*Dolerus (Poodolerus) liogaster* Thomson, 1871 – Material examined: Zdíkov, 750 m, 1 ♀, 8 Jul 1985. Food plants: Poaceae. Distribution: Palaearctic region.

*Dolerus (Poodolerus) niger* (Linné, 1767) – Published data: KIRCHNER (1854) as *Dolerus*

*niger* Kl. Food plants: Poaceae. Distribution: Europe.

*Stromboceros delicatulus* (Fallén, 1808) – Material examined: Švajglova Lada, 1020 m, 1 ♀, 14 Jul 1984. Food plants: Pteridophyta. Distribution: Palaeartic region.

#### Tenthredininae

*Aglaostigma (Aglaostigma) discolor* (Klug, 1817); RL-VU – Published data: KIRCHNER (1854) as *Tentredo* (sic!) (*S.*) *insignis* Kl. Food plants: *Adenostyles alliariae*, *Cirsium* spp., *Petasites* spp., *Tussilago farfara*. Distribution: Europe.

*Aglaostigma (Astochus) aucupariae* (Klug, 1817) – Material examined: Kubova Hut', 1000 m, 1 ♀, 5 Jul 1981. Food plants: *Galium* spp. Distribution: Palaeartic region.

*Aglaostigma (Astochus) fulvipes* (Scopoli, 1753) – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *lateralis* Fab. Food plants: *Galium* spp., *Asperula* spp. Distribution: West Palaeartic region.

*Macrophya (Macrophya) albicincta* (Schrank, 1776) – Material examined: Kubova Hut', 1000 m, 1 ♂, 15 Jul 1985. Food plants: Caprifoliaceae (*Sambucus nigra*, *S. racemosa*, *Valeriana officinalis*, *Viburnum opulus*). Distribution: Europe.

*Macrophya (Macrophya) annulata* (Geoffroy, 1785) – Published data: KIRCHNER (1854) as *Macrophya neglecta* Kl.; STROBL (1896): Kaplice, Schmidt-Göbel. Food plants: Rosaceae (*Potentilla reptans*, *Rubus* spp.). Distribution: Palaeartic region.

*Macrophya (Macrophya) blanda* (Fabricius, 1775) – Published data: KIRCHNER (1854) as *Macrophya blanda* Fab. Host plants: *Potentilla reptans*, *Rubus caesius*, *R. fruticosus* aggr. Distribution: Palaeartic region.

*Macrophya (Macrophya) chrysur*a (Klug, 1817) – Published data: KIRCHNER (1854) as *Macrophya chrysur*a Kl. Food plant: *Daucus carota*. Distribution: Europe.

*Macrophya (Macrophya) diversipes* (Schrank, 1782) – Published data: KIRCHNER (1854) as *Macrophya haematopus* Panz. Food plants: Rosaceae (*Fragaria* spp., *Rosa* spp., *Rubus* spp.). Distribution: Palaeartic region.

*Macrophya (Macrophya) duodecimpunctata* (Linné, 1758) – Material examined: Borová Lada, 900 m, 1 ♀, 10 Jul 1984. Food plants: Cyperaceae (*Carex* spp.). Distribution: Palaeartic region.

*Macrophya (Macrophya) montana* (Scopoli, 1763) – Published data: KIRCHNER (1854) as *Macrophya rustica* L. Food plants: *Rubus* spp. Distribution: West Palaeartic region.

*Macrophya (Macrophya) ribis* (Schrank, 1781) – Published data: KIRCHNER (1854) as *Macrophya ribis* Sch. Food plants: *Sambucus nigra*, *S. racemosa*. Distribution: Europe.

*Macrophya (Macrophya) sanguinolenta* (Gmelin, 1790) – Material examined: Kubova Hut', 1000 m, 2 ♀, 5 Jul 1981; Nicov, 900 m (6847), 1 ♀, 9 Jul 1982; Švajglova Lada, 1040 m, 1 ♂, 14 Jul 1984. Food plants: Polyphagous (*Galeopsis ladanum*, *Senecio sylvaticus*, *Pteridium aquilinum*). Distribution: Palaeartic region.

*Pachyprotasis variegata* (Fallén, 1808) – Published data: KIRCHNER (1854) as *Pachyprotasis variegata* Kl.; STROBL (1896): Kaplice, 2 ♀, Schmidt-Göbel, as *P. variegata* Kl. Food plants: Polyphagous (*Digitalis* spp., *Leontodon hispidus*, *Pyrethrum corymbosum*, *Solanum tuberosum*). Distribution: Palaeartic region.

*Pachyprotasis rapae* (Linné, 1767) – Material examined: Hut' pod Boubinem, 900 m (7048), 1 ♀, 5 Jul 1982; Lipka, 900 m, 1 ♀, 11 Aug 1985, oviposition on *Senecio ovatus*. Food plants: Polyphagous. Distribution: Palaeartic region; cosmopolitan by introduction.

*Pachyprotasis simulans* (Klug, 1817); RL-VU – Published data: KIRCHNER (1854) as *Pachyprotasis simulans* Kl. Food plants: *Aster amellus*, *Solidago virgaurea*. Distribution: Palaeartic and Oriental regions.

*Rhogogaster (Rhogogaster) punctulata* (Klug, 1817) – Material examined: Zdikov, 750 m, 1

♀, 8 Jul 1985. Food plants: Polyphagous. Distribution: Palaearctic region.

*Rhogogaster (Rhogogaster) viridis* (Linné, 1758) – Material examined: Kvilda, 1050 m (6947), 1 ♀, 11 Jul 1981, lgt. MB; Sudslavice, 650 m, 1 ♀, 18 Jul 1984. Food plants: Polyphagous (*Alnus*). Distribution: Holarctic and Oriental regions.

*Sciapteryx consobrina* Klug, 1816; RL-VU – Published data: KIRCHNER (1854) as *Sciapteryx consobrina* Kl. Food plants: *Adoxa moschatellina*, *Anemone nemorosa*, *Ranunculus* spp. Distribution: Europe.

*Sciapteryx costalis* (Fabricius, 1775); RL-VU – Published data: KIRCHNER (1854) as *Sciapteryx costalis* Fab. Food plants: *Ranunculus* spp. (*R. repens*, *R. acris*). Distribution: Central Europe.

*Siobla sturmii* (Klug, 1817) – Material examined: Hus-zřícenina, 750 m (7050), 1 ♀, 20 Jul 1985, on *Impatiens noli-tangere*. Food plant: *Impatiens noli-tangere*. Distribution: Palaearctic region.

*Tenthredo (Cephalredo) neobesa* Zombori, 1980 – Published data: STROBL (1896): Kaplice, 1 ♀, Schmidt-Göbel, as *T. rossii* var. *obesus* Mocs. Food plant: *Sonchus arvensis*. Distribution: Europe.

*Tenthredo (Elinora) koehleri* Klug, 1817 – Material examined: Horní Hutě, 1000 m (6947), 1 ♀, 8 Jul 1981; Huť pod Boubínem, 900 m (7048), 1 ♂, 8 Jul 1985; Kubova Huť, 1000 m, 1 ♂, 2 ♀, 20 Jul 1981, on *Hieracium*, *Crepis*, *Ranunculus*; 1 ♀, 18 Jul 1982; Kvilda, 1000 m (6947c), 1 ♂, 1 ♀, 7 Jul 1981; 1 ♀, 11 Jul 1981, on *Geranium sylvaticum*; Lipka, 900 m, Lipka–Světlohorská Nádrž (reservoir) 950 m, 2 ♀, 9 Jul 1981, on *Ranunculus repens*; Šerava, 1000 m, 1 ♀, 15 Jul 1985, on *Hieracium* sp.; Švajglova Lada, 1000 m, 1 ♀, 9 Jul 1981, on *Geranium robertianum*; 1 ♀, 23 Jul 1984; Zátoň-Kaliště, 850 m, 1 ♀, 10 Jul 1985, on *Hieracium laevigatum*. Food plants: Brassicaceae (*Cardamine amara*, *Cardaminopsis halleri*). Distribution: Europe.

*Tenthredo (Endotheryx) campestris* Linné, 1758 – Material examined: Arnoštov, 900 m (7149), 1 ♀, 17 Jul 1985; Kamenná Hora Mt., 1000 m (6948), 1 ♂, 13 Jul 1982; Lipka, 850 m, 1 ♀, 7 Jul 1981; Zátoň, 850 m, 1 ♀, 3 Jul 1981. Food plant: *Aegopodium podagraria*. Distribution: West Palaearctic region.

*Tenthredo (Endotheryx) crassa* Scopoli, 1763 – Material examined: Kubova Huť, 1000 m, 1 ♀, 5 Jul 1982; Švajglova Lada, 1050 m, 1 ♀, 23 Jul 1984, lgt. MB; Vimperk, 750 m, 1 ♀, 2 Jul 1981; Zdíkov, 750 m, 1 ♀, 8 Jul 1985. Food plant not known. Distribution: West Palaearctic region.

*Tenthredo (Eurogaster) mesomela* Linné, 1758 – Material examined: Huť pod Boubínem, 900 m (7048), 1 ♀, 8 Jul 1985; Lipka, 850 m, 1 ♀, 7 Jul 1981; 950 m, 1 ♂, 5 Aug 1984; Švajglova Lada, 1000 m, 2 ♂, 23 Jul 1984, lgt. MB; 1 ♀, 27 Jul 1985; Vimperk, 750 m, 1 ♂, 1 ♀, 2 Jul 1981. Food plants: Polyphagous. Distribution: Palaearctic region.

*Tenthredo (Eurogaster) obsoleta* Klug, 1817 – Material examined: Kamenná Hora Mt., 1000 m (6948), 1 ♂, 13 Jul 1982; Lipka–Světlohorská Nádrž (reservoir), 950 m, 1 ♀, 9 Jul 1981; 1 ♀, 15 Jul 1981, 1 ♀, 27 Jul 1985, oviposition on *Plantago*; 1 ♀, 9 Jul 1985; Paseka nr, Nové Hutě (6948), 1 ♀, 11 Jul 1981; Šerava, 1050 m, 1 ♀, 15 Jul 1985; Švajglova Lada, 1040 m, 1 ♀, 14 Jul 1984; 1000 m, 1 ♀, 27 Jul 1985; Food plants: *Plantago* spp. Distribution: Palaearctic and Oriental regions.

*Tenthredo (Maculedo) vespiformis* Schrank, 1781; RL-VU – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *pallimacula* Fab. Food plant not known. Distribution: Southern and central Europe.

*Tenthredo (Olivacedo) olivacea* Klug, 1817 – Material examined: Kubova Huť, 1000 m, 1 ♀, 18 Aug 1984; Lipka, 850 m, 1 ♀, 9 Jul 1981; Obrovec Mt., 1100 m, 1 ♀, 7 Jul 1982; Švajglova Lada, 1000 m, 1 ♀, 27 Jul 1985; Zátoň, 1000 m, 1 ♀, 25 Jul 1984. Food plants: Polypha-



gous. Distribution: Palaearctic and Oriental regions; common species in submontane to subalpine regions.

*Tenthredo (Tenthredella) atra* Linné, 1758 – Material examined: Hut' pod Boubínem, 900 m (7048), 1 ♀, 5 Jul 1982; Kamenná Hora Mt., 1000 m, (6948) 1 ♀, 13 Jul 1982, lgt. MB; Kubova Hut', 1000 m, 1 ♀, 15 Jul 1985; Lipka, 900 m, 1 ♂, 9 Jul 1985; Obrovec Mt., 1100 m, 1 ♀, 15 Jul 1985, oviposition on *Galeopsis ladanum*, 15 eggs, ecl. 24 Jul 1985 (in rearing larvae fed on *Galeopsis ladanum*, *G. tetrahit*, *G. speciosa*, *Ranunculus repens*, *Plantago major*, *Lamium purpurea*, *Senecio*; refused *Ajuga*, *Stachys*, *Glechoma*, and *Veronica*); Světlá Hora Mt., 1040 m, 1 ♀, 27 Jul 1982; Švajglova Lada, 1000 m, 1 ♂, 14 Jul 1984. Food plants: Polyphagous. Distribution: Palaearctic region.

*Tenthredo (Tenthredella) balteata* Klug, 1817 – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *balteata* Kl. Food plants: Polyphagous on ferns and dicotyledonous plants. Distribution: Palaearctic region; LELEJ (2012) recorded it from the Far East.

*Tenthredo (Tenthredella) bipunctula* Klug, 1817 – Material examined: Kubova Hut', 1000 m, 1 ♀, 7 Jul 1982; Lipka, 1000 m, 1 ♂, 19 Jul 1982; 1 ♂, 5 Aug 1985, lgt. MB; Obrovec Mt., 1100 m, 1 ♀, 7 Jul 1982; Švajglova Lada, 1050 m, 1 ♀, 27 Jul 1985; Zátoň, 900 m, 1 ♀, 10 Jul 1985, oviposition and larvae on *Senecio ovatus*. Food plant: *Senecio ovatus*. Distribution: Europe.

*Tenthredo (Tenthredella) colon* Klug, 1817 – Material examined: Lipka, 900 m, 1 ♀, 9 Jul 1985; Obrovec Mt., 1100 m, 1 ♂, 7 Jul 1982; Švajglova Lada, 1050 m, 1 ♀, 27 Jul 1985. Food plants: *Epilobium angustifolium*, *Senecio nemorensis*. Distribution: Palaearctic region.

*Tenthredo (Tenthredella) fagi* Panzer, 1798; RL-VU – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *fagi* Panz. Food plants: Polyphagous on *Sorbus*, *Rubus*, etc. Distribution: Palaearctic region.

*Tenthredo (Tenthredella) ferruginea* Schrank, 1776 – Material examined: Borová Lada, 920 m, 1 ♀, 9 Jul 1981, lgt. MB; Hut' pod Boubínem, 900 m (7048), 1 ♀, 5 Jul 1982; 1 ♂, 8 Jul 1985; Lipka, 900 m, 1 ♀, 25 Jul 1984; Lipka–Světlohorská Nádrž (reservoir), 950 m, 1 ♀, 5 Jul 1985. Food plants: Polyphagous on various shrubs, herbs and ferns. Distribution: Palaearctic region.

*Tenthredo (Tenthredella) livida* Linné, 1758 – Material examined: Lipka, 900 m, 1 ♀, 25 Jul 1984; Obrovec Mt., 1100 m, 1 ♂, 7 Jul 1982. Food plants: Polyphagous. Distribution: Palaearctic region.

*Tenthredo (Tenthredella) mandibularis* Fabricius, 1804 – Material examined: Zátoň, 900 m, 1 ♀, 10 Jul 1985, on *Petasites*, oviposition, 18 larvae burrowed into soil 14–17 Aug 1985; Švajglova Lada, 1020 m, 1 ♂, 23 Jul 1984, lgt. MB. Food plants: *Petasites* spp. Distribution: West Palaearctic region.

*Tenthredo (Tenthredella) procera* Klug, 1817; RL-VU – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *procera* Kl. Food plant: *Symphytum officinale*. Distribution: Europe.

*Tenthredo (Tenthredella) rubricoxis* Enslin, 1912 – Material examined: Borová Lada, 850 m, 1 ♂, 11 Aug 1985; Obrovec Mt., 1100 m, 1 ♀, 15 Jul 1985, oviposition on *Senecio ovatus*, 18 Jul 20 eggs, ecl. 22 Jul–10 Aug 1985. Food plants: *Senecio* spp., *Doronicum* spp. Distribution: Palaearctic region.

*Tenthredo (Tenthredella) silensis* Costa, 1859 – Material examined. Obrovec Mt, 1100 m, 1 ♀, 7 Jul 1982; Zátoň, 950 m, 1 ♀, 10 Jul 1985, on *Senecio* sp. Food plants: *Galeopsis* spp. Distribution: Palaearctic region.

*Tenthredo (Tenthredella) velox* Fabricius, 1798 – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *biguttata* Hart. Food plants: Polyphagous. Distribution: Palaearctic region.

*Tenthredo arcuata* Forster, 1771 – Material examined: Zlatá Studna, 1100 m (6947), 1 ♀, 11 Jul 1981. Food plant: *Trifolium repens*. Distribution: Palaearctic region.



*Tenthredo (Tenthredo) marginella* Fabricius, 1793; RL-VU – Published data: KIRCHNER (1854) as *Allantus marginellus* Panz. Food plants: Probably polyphagous, food plants cited are *Melissa*, *Mentha*, *Ocimum*, *Origanum*, *Plantago*, *Tussilago* spp. Distribution: Palaearctic region.

*Tenthredo (Tenthredo) notha* Klug, 1817 – Material examined: Nové Hutě, 1000 m (6947), 2 ♀, 13 Jul 1981 on *Achillea millefolium*, oviposition on *Trifolium*; Švajglova Lada, 1020 m, 27 Jul 1985. Food plants: Fabaceae (*Lotus corniculatus*, *Trifolium* sp.). Distribution: Palaearctic region.

*Tenthredo (Tenthredo) omissa* (Förster, 1844) – Published data: STROBL (1896): Kaplice, 1 ♀, Schmidt-Göbel, as *Allantus omissus* Frst. Food plants: *Plantago* spp. Distribution: Europe.

*Tenthredo (Tenthredo) scrophulariae* Linné, 1758 – Published data: KIRCHNER (1854) as *Allantus scrophulariae* L. Food plants: *Buddleja auriculata*, *Scrophularia* spp., *Verbascum nigrum*. Distribution: Palaearctic region.

*Tenthredo (Tenthredo) vespa* Retzius, 1793 – Published data: KIRCHNER (1854) as *Allantus tricinctus* Kl. Food plants: Polyphagous on various shrubs. Distribution: Palaearctic region.

*Tenthredo (Zonuledo) zonula* Klug, 1817 – Published data: KIRCHNER (1854) as *Allantus zonulus* Kl.; STROBL (1896): Kaplice, 2 ♂, 2 ♀, 16 Jun, Schmitt-Göbel. Food plants: *Hypericum maculatum*, *H. perforatum*, *H. hirsutum*. Distribution: West Palaearctic region.

*Tenthredopsis coquebertii* (Klug, 1817) – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *Coqueberti* Kl. Food plants: Poaceae. Distribution: Palaearctic region.

*Tenthredopsis litterata* (Geoffroy, 1785) – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *dimidiata* Fab.; STROBL (1896): Kaplice, 1 ♂, Schmidt-Göbel, as *T. cordata* Fre. Food plants: Poaceae. Distribution: West Palaearctic region.

*Tenthredopsis nassata* (Linné, 1767) – Material examined: Huť pod Boubínem, 900 m (7048), 3 ♂, 8 Jul 1985. Food plants: Poaceae. Distribution: Palaearctic region.

*Tenthredopsis scutellaris* (Fabricius, 1804) – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *scutellaris* Fab. Food plants: Poaceae. Distribution: Europe.

*Tenthredopsis sordida* (Klug, 1817) – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *sordida* Kl. Food plants: Poaceae. Distribution: Europe.

*Tenthredopsis stigma* (Fabricius, 1798) – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *histrion* Kl. Food plants: Poaceae. Distribution: Europe.

*Tenthredopsis tessellata* (Klug, 1817); RL-VU – Published data: KIRCHNER (1854) as *Tentredo* (sic!) *tessellata* Kl. Food plants: Poaceae. Distribution: West Palaearctic region.

## Siricidae

*Sirex juvenicus* (Linné, 1758) – Published data: KIRCHNER (1854) as *Sirex juvenicus* L. Food plants: *Abies alba*, *Picea abies*, *Pinus* spp. Distribution: Palaearctic region; introduced to North America and Australia.

*Urocerus augur* (Klug, 1803) – Published data: KIRCHNER (1854) as *Sirex augur* T. (sic!). Food plants: *Abies alba*, *Picea abies*, *Cedrus libani*. Distribution: West Palaearctic region, from Spain to Georgia and Iceland.

*Urocerus gigas* (Linné, 1758) – Material examined: Obrovec Mt., 1050–1100 m, 2 ♀, 29 Jul 1982; Šerava, 1050 m, 1 ♀, 12 Jul 1982. Food plants: *Picea* spp., *Abies* spp. Distribution: Palaearctic region, introduced to South America.

*Xeris spectrum* (Linné, 1758) – Material examined: Strážný, Žlíbský Vrch hill, 880 m (7048), 1 ♀, 18 Aug 1984; Vimperk, 700 m, 1 ♀, 2 Jul 1982; Volary, Vysoký Les forest, 920 m, 1 ♀, 4 Aug 1984. Food plants: *Picea* spp. Distribution: Holarctic region.

## Xiphydriidae

*Xiphydria camelus* (Linné, 1758) – Published data: KIRCHNER (1854) as *Xyphidria Camelus* L. (sic!). Food plants: *Alnus* spp., *Betula* spp. Distribution: Palaearctic region.

*Xiphydria prolongata* (Geoffroy, 1785); RL-VU – Published data: KIRCHNER (1854) as *Xyphidria Dromedarius* F. (sic!). Food plants: *Betula*, *Populus*, *Salix*, *Ulmus* spp. Distribution: Europe; introduced into USA.

## Cephidae

*Calameuta pallipes* (Klug, 1803) – Material examined: Švajglova Lada, 1020–1040 m, 2 ♀, 14 Jul 1984. Food plants: Poaceae (*Deschampsia flexuosa*). Distribution: West Palaearctic region.

*Cephus pygmaeus* (Linné, 1767) – Published data: KIRCHNER (1854) as *Cephus pygmaeus* L. Food plants: Poaceae, including cereals. Distribution: Palaearctic region, introduced to North America.

*Cephus spinipes* (Panzer, 1800) – Material examined: Švajglova Lada, 1040 m, 1 ♀, 14 Jul 1984. Food plants: Poaceae (*Dactylis glomerata*, *Phleum pratense*). Distribution: Europe.

*Trachelus tabidus* (Fabricius, 1775) – Published data: KIRCHNER (1854) as *Cephus tabidus* Fab. Food plants: Poaceae (*Hordeum* spp., *Secale cereale*, *Triticum aestivum*). Distribution: Holarctic region.

*Trachelus troglodyta* (Fabricius, 1787) – Published data: KIRCHNER (1854) as *Cephus troglodyta* Fab. Food plants: Poaceae (*Secale* sp.). Distribution: West Palaearctic region; from North Africa to Georgia and Scandinavia.

## Orussidae

*Orussus abietinus* (Scopoli, 1763); RL-EN – Published data: KIRCHNER (1854) as *Oryssus vesperilio* T. Food. Larvae are parasitoids in larvae of Buprestidae and Cerambycidae. Distribution: West Palaearctic region.

## SUMMARY

Sawflies collected in the summer months during five years (1981–1985) within the borders of the Šumava National Park and Šumava Biosphere Reserve yielded 80 species, 25 of which belong to the subfamily Tenthredininae and only 15 to the Nematinae. To gain a more comprehensive overview of the symphytan fauna of the region, data published by former authors have been critically analyzed and evaluated. This first attempt to inventory species of this highly interesting area resulted in 173 identified species. Two species are classified in the Red List as endangered and 15 species as vulnerable. The sawfly fauna of the upland plains with its plant rich meadows, moorlands and peatbogs still remains completely unknown, though a rich fauna can be expected, particularly of Nematinae.

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