

## The fauna of Latvian ichneumonids (Hymenoptera, Ichneumonidae). Subfamily Pimplinae, tribes Pimplini and Rhyssini

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### Abstract

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Eighteen species of the tribe Pimplini and eight species of the tribe Rhyssini occurring in Latvia are discussed. *Itopectis aterrima* Jussila, *I. clavicornis* Thoms., *I. melanocephala* Grav., *Pimpla melanacrias* Perkins, *P. contemplator* Müll., *Apechthis capulifera* Kriechb. and *Megarhyssa perlata* Christ are new for Latvia. New data on distribution of other species are presented.

**Key words:** Ichneumonidae, Pimplinae, Latvia, fauna.

### Introduction

The tribes Pimplini and Rhyssini belong to the subfamily Pimplinae (=Ephialtinae). The species of the tribe oviposit mainly into lepidopterous larvae. The first data of Latvian Pimplini are listed by J.H.Kawall (Kawall, 1855, 1858, 1866, 1870). Author mentioned 5 Pimplini and 3 Rhyssini species. Later H.Bischoff (Bischoff, 1925) registered 7 Pimplini and 1 Rhyssini species, but E.Ozols (Ozols, 1924, 1928, 1942, 1961, 1958, 1959, 1962, 1963, 1965) – 11 Pimplini and 5 Rhyssini species. Summary of E.Ozols investigations has been published by Z.Spuris (Spuris, 1979). Some date included references of O.Vītols (Vītols, 1941), G.Ozols (Ozols, 1959, 1985), M.Cimdinš (Cimdiņš, 1960) and A.Saars (Saars, 1930). Totally, the earlier data contain information about 12 species of the tribe Pimplini and 6 species of the tribe Rhyssini. This article is based on material of the Museum of Zoology of the Latvian University and author collection. 675 specimens have been examined. The species name in list is followed by sources of information (R), the species names are quoted in original transcription in excerpts the localities of each species are presented), number of specimens examined (M), locality (L) and species collecting period. The species new to Latvia are marked by asterisk (\*).The collectors names are abbreviated as follows: A.Piterāns (P), G.Akmentiņš (A), M.Cinītis (C), A.Grīnbergs (G), O.Konde (K), K.Ozoliņš (KO), E.Ozols (O), G.Ozols (GO), N.Pētersons (NP), U.Piterāns (UP), N.Savenkovs (NS),

V.Spuņģis (VS), Z.Spuris (S), A.Šmits (Š), V.Šmits (VŠ), M.Šternbergs (MŠ), A.Švolkovskis (AŠ), D.Tjarve (T), V.Tumšs (VT) and V.Ūdris (Ū).

### List of species

#### Subfamilia Pimplinae

#### Tribus Pimplini

#### 1. Genus *Itopectis* Förster, 1869

##### 1. *Itopectis alternans* (Gravenhorst, 1829)

R: Kawall, 1855: 57 (*Pimpla*), 1866: 64, 65, 148, 157 (*Pimpla*); Bischoff, 1925: 317 (*Pimpla*, Taurkalne, Berkava); Ozols, 1941: 73 (Cēsis), 1961: 6 (*I. alternans* F., Priekuļi, ex *Argyroproce variegana*, *Heringia dodecella*), 1963: 6 (Rīga), 1965: 17 (Rīga); Cimdiņš, 1960: 159 (Rīga, Bērzi, Budeskalni, ex *Cacoecia rosana* L.); Spuris, 1979: 46; Ozols G., 1959: 171, 172 (ex *Evetria buoliana* Schiff., *E. pinicolana* Dbld.), 1985: 107, 113, 141 (ex *Exoteleia dodecella* L., *Rhyacionia buoliana* Den. et Schiff., *Lymantria monacha* L.).

M: 47 ♀♀, 4 ♂♂. L: Ropaži (AŠ, 1936), Ozolnieki (O, 1937), Sigulda (O, 1940), Jēkabnieki (S, 1943), Sloka (O, 1946), Ķemeri (O, 1936, 1952, 1953, 1954), Mangaļi (O, 1953), Tērvete (O, 1957), Sildi, Isliena (Teiči reserve) (P, 1985, 1989, 1992), Mazsalaca (VS, 1989, 1990), Zvejniekciems (C, 1991), Dubulti (C, 1991), Skrunda (C, 1992), Rīteri (P, 1992), Ikšķile (UP, 1995), Dārziņi (P, 1996), Ļaudona (A, 1996). 21.05. – 01.10.

##### 2. *Itopectis aterrima* Jussila, 1965 \*

M: 10 ♀♀. L: Rīga (O, 1923, 1942, 1945 (*I. alternans* var *kalthofi* Auriv.)), Sildi (Teiči reserve) (P, 1989, 1991), Cesvaine (C, 1990). 31.5. – 4.10.

##### 3. *Itopectis clavicornis* (Thomson, 1889) \*

M: 1 ♀. L: Ērgļi (P, 28.06.1990).

##### 4. *Itopectis curticauda* (Kriechbaumer, 1887)

R: Ozols, 1958: 138 (Ķemeri, Slītere); Spuris, 1979: 46.

M: 14 ♀♀, 1 ♂. L: Ozolnieki (O, 1937); Sildi (Teiči reserve) (P, 1987, 1991), Dāvji (P, 1990). 31.05. – 19.08.

##### 5. *Itopectis maculator* (Fabricius, 1775)

R: Ozols, 1958: (Šķēde), 1961: 6 (Cīrava, Šķēde, ex *Hyponomeuta malinellus*, *Tortrix viridana*); Spuris, 1979: 46.

M: 7 ♀♀, 2 ♂♂. L: Dāvji (P, 1991), Skrunda (P, 1992), Ikšķile (P, 1992). 16.05. – 05.09.

##### 6. *Itopectis melanocephala* (Gravenhorst, 1829) \*

M: 2 ♀♀. L: lake Engure (S, 1962); Skrunda (C, 1992). 3.7. – 27.8.

##### 7. *Itopectis viduata* (Gravenhorst, 1829)

R: Ozols, 1958: 138 (*I. pudibundae* Ratz., Olaine).

M: 10 ♀♀, 3 ♂♂. L: Sildi, Isliena (Teiči reserve) (A, 1985; P, 1985, 1987, 1988, 1989, 1990). 2.7. – 10.9.

#### 2. Genus *Pimpla* Fabricius, 1804

8. *Pimpla arctica* Zetterstedt, 1838

R: Ozols, 1924: 43 (Priekuļi); Bischoff, 1925: 317 (Berkava); Spuris, 1979: 46 (*Coccygomimus*).

M: 4 ♀♀. L: Rīga (O, 1942); Teiči reserve (139. kv.) (A, 1985). 31.06. – 03.09.

9. *Pimpla contemplator* (Müller, 1776) \*

M: 7 ♀♀. L: Sigulda (O, 1940), Ķemeri (O, 1952), Svēte river (S, 1954), Mazsalaca (P, 1987), Talsi (P, 1988), Reibāni (P, 1992). 05.07. – 16.08.

10. *Pimpla flavicoxis* Thomson, 1877

R: Kawall, 1855: 59; 1864: 115; 1866: 148 (Puze); 1867: 37 (Puze); Bischoff, 1925: 324 (Veckukuļi); Ozols, 1924: 43 (*P. flavicoxis* Thoms., Dalbe), 1941: 73 (*P. turionellae* L. var. *flavicoxis* Thoms., Cēsis), 1961: 6 (Vecāķi, ex *Magdalis frontalis*), 1963: 6 (Rīga), 1965: 17 (Rīga); Spuris, 1979: 46 (*Coccygomimus aquilonius flavicoxis* Thoms.).

M: 53 ♀♀, 20 ♂♂. L: Sigulda (O, 1940), Jēkabnieki (S, 1943), Birzuļi (O, 1952), Ķemeri (O, 1952, 1953, 1954), lake Alūksne (S, 1953), Nogale (O, 1954), Mazšķibes (P, 1983), Cirsti (P, 1984), Ikšķile (P, 1984, 1985, 1986; UP, 1995), Sildi, Isliena (Teiči reserve) (P, 1985, 1988, 1990, 1992; A, 1987), Daugmale (P, 1986), Dāvji (P, 1987, 1992, 1993, 1996), Mazsalaca (P, 1990; VS, 1990), Babīte (C, 1990), Zvejniekiems (C, 1990, 1991, 1992), Reibāni (P, 1992), Skrunda (C, 1992), Antiņciems (P, 1993), Koknese (P, 1994), Aizkraukles bog (P, 1995), lake Svente (P, 1996). 12.05. – 05.10.

11. *Pimpla hypochondriaca* (Retzius, 1783)

R: Kawall, 1855: 57 (*P. instigator* Fb., Jelgava), 1958: 67 (*P. instigator* Fb.), 1866: 157, 160 (*P. instigator* Fb., Puze); Bischoff, 1925: 317 (*P. instigator* F., Berkava, Veckukuļi), Ozols, 1924: 43 (*P. instigator* F., Piekuļi, Ķemeri), 1961: 5 (*P. instigator* F., Ropaži, ex *Dendrolimus pini*), Saars, 1930: 157 (*P. instigator* F.); Spuris, 1979: 46 (*Coccygomimus arcticus* Zett.); Ozols G., 1985: 123, 141 (ex *Dendrolimus pini* L., *Lymantria monacha* L.).

M: 73 ♀♀, 72 ♂♂. L: Cēsis (O, 1945), Sloka (O, 1946), Rīga (O, 1942), Birzuļi (O, 1952), Ķemeri (O, 1952, 1953, 1954), Rāmava (O, 1955), Mangaļi (O, 1957), Krievragciems (VŠ, 1958), Tilža (P, 1984, 1986), Doņikava (P, 1984), Ikšķile (P, 1984, 1991, 1992), Koknese (P, 1984, 1985, 1986), Sildi, Isliena (Teiči reserve) (P, 1985, 1987, 1990, 1991, 1992; C, 1992), Grīvas (P, 1986), Dāvji (P, 1988, 1989, 1990, 1992; UP, 1995, 1996), Ērgļi (P, 1990), Zvejniekiems (C, 1990, 1991, 1992, 1993, 1996), Mazsalaca (P, 1991), Tirza (C, 1992; T, 1995), Cesvaine (C, 1992), Sieksāte (C, 1992), Skrunda (P, 1992), Antiņciems (P, 1993), Briede river (C, 1993), Pape (P, 1994), Juglas forestry (Š, 1996, ex *Lymantria monacha* L.), Sventāja valley (P, 1998). 12.5. – 13.10.

12. *Pimpla melanacrias* Perkins, 1941 \*

M: 14 ♀♀. L: Auce (O, 1947), Cirsti (P, 1984), Ķikuti (P, 1985), Mazsalaca (P, 1990), Bukaiši (P, 1992), Dāvji (P, 1992, 1993), Zvejniekiems (C, 1992), Pape (P, 1994), Koknese (P, 1994), Stirniene (P, 1994), Rīga (UP, 1998). 09.04. – 24.09.

13. *Pimpla spuria* Gravenhorst, 1829

R: Ozols G., 1985: 141 (ex *Lymantria monacha* L.)

M: 7 ♀♀. L: Sloka (O, 1946), Ķemeri (O, 1952), Tērvete (T, 1957), Rīga (O, 1965). 01.06. – 13.10.

14. *Pimpla turionellae* (Linnaeus, 1758)

R: Kawall, 1855: 57 (*P. turionellae* L., *P. examiner* Fb., Puze), 1866: 62, 65, 156, 157, 158, 163, 165 (*P. turionellae* L., *P. examiner* Fb., Puze), 1870: 108; Bischoff, 1925: 317 (*P. turionellae* L., Veckukuļi, Sunākste, *P. examiner* F., Taurkalne, Veckukuļi, Eglaine); Ozols, 1924: 43 (*P. turionellae* L., *P. examiner* F., Priekuļi, Rīga, Dalbe); 1928: 142 (*P. turionellae* L., *P. examiner* F., Priekuļi, Rīga, Dalbe, Slītere, ex *Orgyia antiqua* L., *Malacosoma neustria* L., *Acronycta rumicis* L., *Mamestra brassicae* L., *Abraxas grossulariata* L., *Oletreutes variegana* Hb., *Yponomeuta malinellus* Z., *Y. evonymellus* L., *Incurvaria capitella* Cl.); 1941: 73 (*P. examiner* F., *P. padellae* Torck, Cēsis), 1942: 324 (*P. examiner* F., Tome); 1958: (Šķēde), 1961: 5, 6 (ex *Acronycta rumicis*, *Malacosoma neustria*, *Hyponomeuta malinellus*, *Incurvaria capitella*, *Abraxas grossulariata*, *Mamestra brassicae*, *Orgyia antiqua*); Saars, 1930: 157 (*P. examiner* F.); Cimdiņš, 1960: 155, 159 (Rīga, Budeskalni, ex *Hyponomeuta malinella* Zell., *Cacoecia rosana* L., *Rhopobota naevana* Hb.); Spuris, 1979: 46 (*Coccygomimus*); Ozols G., 1959: 171 (*P. examiner* F., ex *Evetria buoliana* Schiff.), 1985: 112, 123, 141 (ex *Rhyacionia buoliana* Den. et Shiff., *Dendrolimus pini* L., *Lymantria monacha* L.).

M: 24 ♀♀, 1 ♂♂. L: Ropaži (O, 1948), Teiči reserve (134. kv.) (A, 1985, 1991), Ērgļi (P, 1990), Carnikava (C, 1991, 1992), Kūdra (P, 1994), Zvejniekciems (C, 1996), Juglas forestry (Š, 1996, ex *Lymantria monacha* L.), Dāvji (UP, 1996), Rīga (C, 1997). 16.04. – 18.09.

### 3. Genus *Apechthis* Förster, 1869

#### 15. *Apechthis capuifera* Kriechbaumer, 1887 \*

M: 6 ♀♀, 4 ♂♂. L: Ķemeri (O, 1952, 1953, 1954), Numerne (P, 1981). 07.06. – 27.09.

#### 16. *Apechthis compunctor* (Linnaeus, 1758)

R: Bischoff, 1925: 317 (*Pimpla brassicae* Poda, Taurkalne, Vecmuiža, Veckukuļi, Eglaine); Ozols, 1924: 43 (*Pimpla brassicae* Poda, Priekuļi), 1928: 142 (*Pimpla brassicae* Poda, Priekuļi, ex *Malacosoma neustria* L.), 1941: 73 (*Apechthis brassicae* Poda, Cēsis), 1962: 6 (*Apechthis brassicae* Poda, Priekuļi, ex *Malacosoma neustria*), 1965: 17 (*Apechthis*, Rīga); Spuris, 1979: 46 (*Ephialtes*).

M: 39 ♀♀, 22 ♂♂. L: Slītere (O, 1926), Pededzes lower (O, 1936), Sigulda (O, 1940), Jēkabnieki (S, 1943), Sloka (O, 1946), Ropaži (O, 1948), Šķēde (O, 1950), Ķemeri (O, 1952, 1953, 1954, 1955; P, 1993), Bulduri (O, 1954), Vecāķi (O, 1956), Vecauce (O, 1960), Doņikava (P, 1981), Sildi, Isliena (Teiči reserve) (P, 1987, 1988, 1989, 1991, 1992), Dāvji (1989, 1992, 1994, 1995; UP, 1994, 1995), Pikšas (P, 1992), Cirsti (NP, 1986), Rīga (C, 1990), Zvejniekciems (C, 1992), lake Kaņieris (P, 1993), Koknese (P, 1994), Juglas forestry (Š, 1996, ex *Lymantria monacha* L.). 16.05. – 31.09.

#### 17. *Apechthis resinator* (Thunberg, 1822)

R: Ozols, 1924: 44 (*Pimpla quadridentata* Thoms., Priekuļi); 1963: 6 (*Apechthis*, Rīga); Spuris, 1979: 46 (*Ephialtes*).

M: 68 ♀♀, 16 ♂♂. L: Cēsis (O, 1937, 1938, 1939), Bulduri (O, 1939), Sigulda (O, 1940), Ķemeri (O, 1952, 1953, 1954, 1960), Šķēde (O, 1950, 1956), Birzuļi (O, 1952), Vecāķi (O, 1956), Vecauce (O, 1960), Moricsala (P, 1980), Brakšķi (P, 1984), Ikšķile (P, 1984, 1995), Cirsti (P, 1984), Ieriķi (P, 1985), Līgatne (P, 1985), Bukaiši (P, 1985), Garupe

(P, 1986), Tērvete (P, 1986), Dāvji (P, 1986), Ranguči (P, 1986), Daugmale (P, 1986), Silenieki (P, 1986), Sildi, Isliena (Teiči reserve) (P, 1987, 1990, 1991; C, 1990), Kazdanga (P, 1989), Mazsalaca (VS, 1989). 12.05. – 25.10.

18. *Apechthis rufata* (Gmelin, 1790)

R: Kawall, 1866: 152 (*Pimpla*); Ozols, 1924: 43 (*Pimpla*, Priekuļi); 1941: 73 (*Apechtis*, Cēsis), 1958: (*Apechtis*, Šķēde), 1961: 6 (*Apechtis*, Šķēde, ex *Tortrix viridana*); Cimdiņš, 1960: 159 (*Apechtis*, Rīga, Kalkūni, Bērzi; ex *Pandemis heparana* Shiff.); Spuris, 1979: 46 (*Ephialtes*).

M: 8 ♀♀, 13 ♂♂. L: Ozolnieki (O, 1937), Ķemeri (O, 1952, 1953), Nogale (O, 1954), Birzuļi (O, 1955, ex *Tortrix viridana*), Sigulda (S, 1970), Sildi (Teiči reserve) (P, 1985, 1991), Tērvete (P, 1986), Rīga (C, 1990), Ļaudona (T, 1990), Zvejniekiems (C, 1992, 1993), Antiņciems (P, 1993). 13.05. – 12.10.

## Tribus Rhyssini

### 4. Genus *Rhyssa* Gravenhorst, 1829

19. *Rhyssa amoena* Gravenhorst, 1829

R: Kawall, 1855: 58 (Puze); Ozols, 1924: 44 (Priekuļi); Saars, 1930: 157.

M: 4 ♀♀. L: Ķemeri (O, 1953), Pumpuri (P, 1987), Dāvji (P, 1994). 25.07. – 30.08.

20. *Rhyssa persuasoria* (Linnaeus, 1758)

R: Kawall, 1855: 58 (Jelgava); Bischoff, 1925: 318 (Berkava); Ozols, 1924: 44 (Priekuļi); 1942: 324 (Tome); 1962: 29-40 (Rīga); Saars, 1930: 157; Vītols, 1941: 448; Ozols G., 1985: 53, 164 (ex Cerambycidae, Siricidae):

M: 37 ♀♀, 16 ♂♂. L: Ķemeri (O, 1954), lake Liepāja (S, 1957), Makstenieki (VT, 1963), Kalsnava (VT, 1967), Līgatne (P, 1985), lake Svētune (P, 1986), Ikšķile (P, 1987), Sildi (Teiči reserve) (P, 1988, 1993; C, 1993), Krustkalni reserve (A, 1989), Kolka (MŠ, 1993, C, 1996), Antiņciems (NS, 1993; C, 1993), Ērberģe (P, 1996), Silvidi (P, 1996), Dāvji (UP, 1997). 14.05. – 16.08.

### 5. Genus *Rhyssella*

21. *Rhyssella approximator* (Fabricius, 1793)

R: Kawall, 1855: 58 (*Rhyssa curvipes* Grv., Puze), 1858: 68 (*Rhyssa curvipes* Grv., Puze), 1866: 38, 39 (*Rhyssa curvipes* Grv., Puze), 1870: 109 (*Rhyssa curvipes* Grv.); Ozols, 1928: 141 (*Rhyssa*, *Thalessa curvipes* Grav., Viļaka, Tribunovo, ex *Xiphydria camelus* L.), 1961: 6 (*Rhyssa*, *Megarhyssa curvipes* Grav., Viļaka, ex *Xiphydria camelus*); Spuris, 1979: 47.

M: 34 ♀♀, 24 ♂♂. L: Lejasciems (K, 1934), Sloka (O, 1946), Ķemeri (VŠ, 1954; KO, 1993), Mazā Jugla river (VŠ, 1955), Gauja valley (S, 1970), Silenieki (P, 1984), Dāvji (P, 1988, 1990, 1992), Zvejniekiems (C, 1991), Cesvaine (C, 1992), Sildi (Teiči reserve) (P, 1992), Rauda river (P, 1996). 10.05. – 11.09.

22. *Rhyssella obliterated* (Gravenhorst, 1829)

R: Ozols, 1928: 141 (? *Thalessa citraria* Ol., Viļaka, Tribumovo), 1959: 122 (*Megarhyssa* (= *Thalessa*), Mazā Jugla); Spuris, 1979: 47.

M: 2 ♀♀, 6 ♂♂. L: Ķemeri (VŠ, 1954), Sildi (Teiči reserve) (P, 1992). 10.05. – 17.06.

## 6. Genus *Megarhyssa*

23. *Megarhyssa emarginatoria* (Thunberg, 1822)

R: Kawall, 1855: 58 (*Rhyssa leucographa* Grv., Sloka); Ozols G., 1985: 164.

M: 3 ♀♀, 5 ♂♂. L: Jumurda (GO, 1962), Priekuļi (Ū, 1966), Dviete (GO, 1966), Kalsnava (VT, 1967), Krustkalni reserve (A, 1986). 30.05. – 07.07.

24. *Megarhyssa gigas* (Laxmann, 1770)

R: Ozols G., 1985: 164.

M: Material not examined.

25. *Megarhyssa perlata* Christ, 1791 \*

M: 1 ♀. L: lake Kaņieris (O, 03.07.49.).

26. *Megarhyssa superba* (Schrank, 1781)

R: Ozols, 1958: 139 (*Thalessa*, lake Kaņieris, misdet. (correct name – *Megarhyssa perlata* Christ, A. Piterāns det.), Strenči, Ugāle); Spuris, 1979: 47.

M: 1 ♀. (G, 1952).

## Kopsavilkums

Latvijas faunā pašlaik konstatētas 18 tribas Pimplini un 8 tribas Rhyssini sugas. Ziņas par 7 sugām – *Itopectis aterrima* Jussila, *I. clavicornis* Thoms., *I. melanocephala* Grav., *Pimpla melanacrias* Perkins, *P. contemplator* Müll. *Apechthis capulifera* Kriechb. un *Megarhyssa perlata* Christ publicētas pirmoreiz.

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