

# Sawflies of the Vértes Mountains (Hymenoptera: Symphyta)

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HARIS, A. *Sawflies of the Vértes Mountains (Central Transdanubia, Hungary) (Hymenoptera: Symphyta)*

**Abstract:** 167 sawfly species are recorded from the Vértes Mountains. *Periclista albipennis* (Zaddach, 1859), *Amauronematus humeralis* (Serville, 1823) and *Pristiphora biscalis* (Förster, 1854) are new records for the Hungarian sawfly fauna.

**Keywords:** Vértes Mountains, sawflies, Hymenoptera, Symphyta, new records

## Introduction

The Vértes Mountains are part of the Transdanubian Mountain Chain (Figs. 1 and 2). Their total area is 29 400 hectares, at altitudes between 130 and 487 m. The three highest peaks are the Nagy Csákány: 487 m, Körtvélyes: 480 m and the Csóka-hegy (Csóka Hill): 479 m. The climate of southern slopes is under a sub-Mediterranean, whilst the northern slopes are under subalpine influence. The yearly mean temperature is only 9°C and precipitation 600-700 mm: 600-650 mm on the southern slopes while 650-700 mm on the northern sides, plateaus and peaks above 300 m. The Vértes Mountains is one of the moderately dry areas of Hungary.

The watersheds are drained by 4 main brooks, namely Itál-ér, Mór-Bodajk Brook, Váli Brook and Császár Brook. The final destinations of these brooks are the River Danube and Velencei Lake. The number of brooks is relatively low due to the spongy structure of the dolomites that allows infiltration. The infiltrated water reaches the surface as springs. The ponds of this area (Fig. 8) are mainly artificial, formed by the damming of brooks or abandoned mine workings.

The Vértes is made largely of Triassic dolomite originating from sediments of ancient seas (mainly the Thetys Sea) which covered this area more than 235 million years ago. The Triassic dolomite is generally covered by layers of clay. In the Southern mountains, mainly around Gánt, bauxite covers the dolomite (Fig. 9). Deep valleys are filled up with loess. The western part of the mountains is rich in brown coal which is utilized by the local power plant. (According to a recent government decision, the Márkus Hill coalmine and the power plant are going to be shut down).

The typical forests of this region are oak-hornbeam forests (like *Quercus petraeae-Carpinetum*) and in cooler zones beech forests (*Fagio medio-europaeum*). On the southern slopes dolomite grasslands (Fig. 10), dolomite bush-forests and Pubescent Oak forests grow. At the foot of the hills and in the brook-valleys, willow, alder woodlands and marshy meadows are the typical plant associations.

Entomological investigation of the Vértes started only rather recently. SZEŐKE (2007), SZERÉNYI (2004), PASTORÁLIS (2001, 2000), SZABÓKY (1994) and HERCZIG (1985) studied the moths and butterflies. ÁDÁM studied the rove beetle fauna (ÁDÁM 2004), HARMAT, SZEŐKE & KUTASI (2007) the bug fauna (Heteroptera). KUTASI (2002) published the list of protected beetles of Vértes Mountains.

## Methods and material

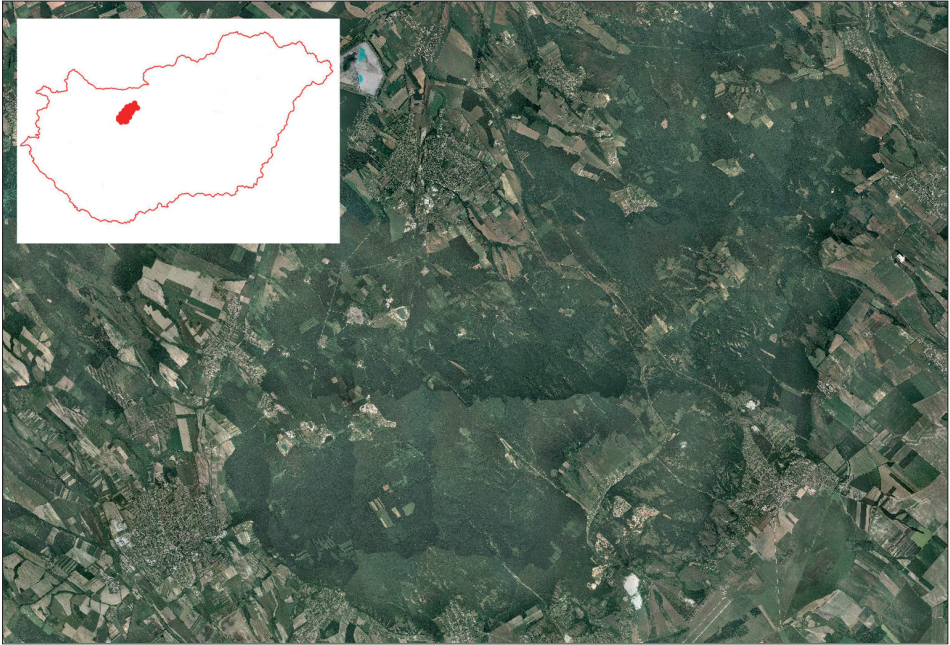
The studied material comprises three parts. The collection of Szeőke Kálmán (Velenca, Plant Health and Soil Conservation Station) contains 57 Symphyta specimens representing 39 species, identified by the author. These sawflies were collected between 1974 and 2009. Sawflies, deposited in the Hungarian Natural History Museum, were also identified by the author in 90% of cases. They were collected by Dr. László Móczár, Dr. László Kaszab, Dr. Erzsébet Bajári and Mrs. Sóllymos in 1961 (with few exceptions). It contains 102 specimens of 46 species. The main part was collected by the author in 2010. This comprises approximately 560 specimens of 141 species during the 37 days I spent with collection this year.

For identification Zhelochovtsev's work on the sawflies of the European part of the former USSR (Zhelochovtsev, 1988) was consulted, together with the Fauna Hungariae series (MÓCZÁR & ZOMBORI 1973, ZOMBORI 1982, 1990a). We also used some recent revisions to make the identifications even more precise (BLANK & RITZAU 1998, HARIS 2006, KOCH 1988).

For the discussion of the distribution of sawflies, we consulted the book of Roller and Haris titled Sawflies of the Carpathian Basin, History and Current Research (ROLLER & HARIS 2008) and also the most recent European checklist of species (TAEGER et al. 2006). The higher classification of sawflies applied follows the Hymenoptera part of Fauna Europaea (ACHTERBERG 2004). Our references for biological data of sawflies are SCHEDL (1991), PSCHORN-WALCHER & ALTENHOFER (2000) and LISTON (1995, 1997, 2004, 2006).

### *List of localities and dates of capture*

1. Bodmér: Around 47°26'48.85" N, 18°32'46.71" E. 24. 04. 2010 and 20. 08. 2010. Marshy meadow next to the local bus-stop.
2. Bokod: Hütő-tó: marshy meadow at Hütő-tó (artificial lake for cooling water for the local power plant). Between 47°28'57.45" N, 18°16'29.19" E and 47°29'0.34" N, 18°16'29.96" E. 01. 05. 2010, 02. 05. 2010, 04. 05. 2010, 24. 05. 2010 and 18. 07. 2010. Marshy meadow with willow and alder trees.
3. Csákberény. Horog-völgy (Horog Valley). Around 47°22'23.30" N, 18°20'21.04" E. 05. 08. 2010. Oak forest.
4. Csákberény: Bucka Hill (Buckahegy). Around 47°20'51.62" N, 18°21'34.71" E. 30. 04. 2010. Dolomite grassland.
5. Csákberény: Halom Valley (Halom-völgy). Between 47°21'45.35" N, 18°21'3.95" E and 47°21'47.46" N, 18°20'55.32" E. 01. 05. 2010. Oak forest along forestry road.
6. Csákvár: Meszes Valley (Meszes-völgy). 47° 21' 26.37" N, 18° 19' 22.22" and 47° 21' 35.46" N 18° 19' 09.98" E. 17. 04. 2010. Oak forest starting from the old cemetery.
7. Csákberény: Strázsa-hegy alja (Strázsa Hill). Around 47°21'3.19" N, 18°20'26.22" E. 17. 04. 2010. Oak forest along forestry road.
8. Csákvár: Csíkvarjai -rét (Csíkvarjai Meadow). 47°23'28.76" N, 18°28'36.48" E and 47°23'12.31" N, 18°28'20.21" E. 17. 04. 2010. Marshy meadow.



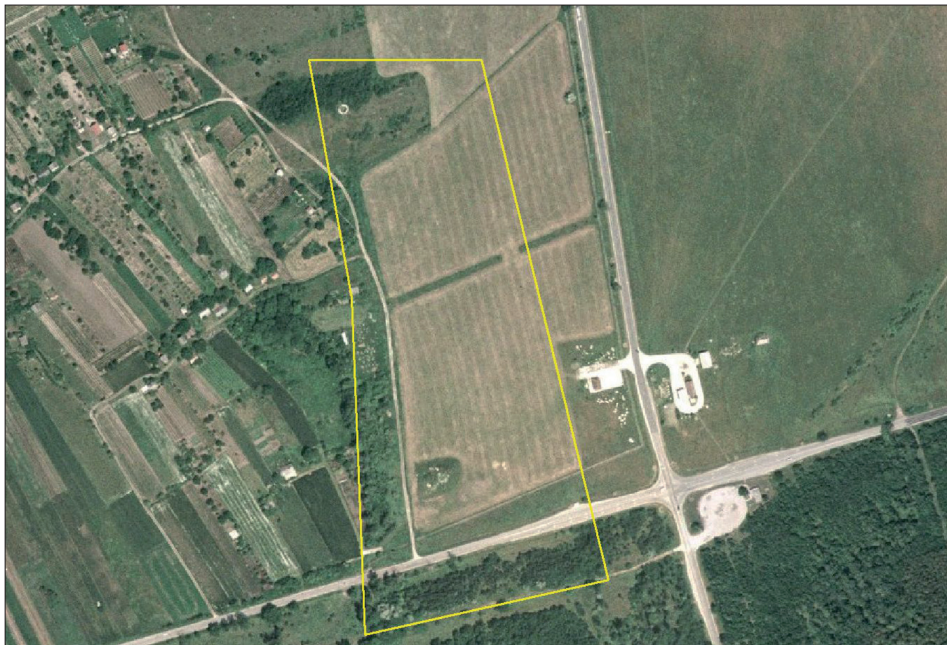
**Fig. 1: The Vértes Mountains in Hungary**

**Fig. 2: The Vértes Mountains**



**Fig. 3: Puztavám: Égeres (Alder Woodland)**





**Fig. 4: Kerekszenttamás**



**Fig. 5: Gánt: Kaszpakút**



9. Csákvár: Huber-vágás: Around 47°26'5.70" N, 18°27'31.48" E. 19. 04. 2010. Oak forest.
10. Csákvár: meadow under Szóló-kő. Meadow next to Csákvár drinking water plant. Between 47°23'14.01" N, 18°26'14.46" E and 47°23'12.14" N, 18°26'7.73" E. 03. 04. 2010. Dry bushy grassland in the valley.
11. Csákvár: Murva-domb (Murva Hill). Around 47°24'36.52" N, 18°26'52.00" E. 22. 05. 2010. Fir plantation.
12. Csákvár: Vásár-oldal. Between 47°25'49.92" N, 18°24'32.71" E and 47°25'44.77" N, 18°24'36.47" E. 26. 06. 2010, 27. 06. 2010 and 10. 07. 2010. Dry bushy grassland with fir plantation.
13. Csákvár: Vérteskozma: Fáni-völgy (Fáni Valley). Around 47°26'58.26" N, 18°26'33.98" E. 25. 04. 2010. Oak forest..
14. Csókakő: Békás-ér (Békás Brook). Between 47°20'15.54" N, 18°15'25.71" E and 47°20'21.78" N, 18°15'30.11" E. 24. 04. 2010. Disturbed (seminatural) marshy meadow with willow and poplar.
15. Csókakő: Csókakő Castle (Váralja) Below the castle hill, sweeping along the road in the forest. 47°21'35.59" N, 18°16'43.01" E and 47°21'42.19" N, 18°16'36.19" E. (Fig. 7). Oak forest.
16. Gánt: Around 47°27'40.89" N, 18°27'17.10" E. 25. 04. 2010. Dry dolomite grassland and bushy area along the tourist road.
17. Gánt: bauxitbánya (bauxite mine). Around 47°22'59.78" N, 18°23'41.76" E. 25. 04. 2010. Young oak forest with *Prunus spinosa*.
18. Gánt: Csáki Castle (Csáki vár). Opposite side of the forestry road. Around 47°26'36.88" N, 18°21'1.64" E. 01. 05. 2010 and 07. 05. 2010. Oak forest.
19. Gánt: Fáni-völgy (Fáni Valley). Between 47°27'44.36" N, 18°26'30.59" E and 47°27'51.12" N, 18°26'15.21" E. 22. 05. 2010, 29. 05. 2010 and 01. 08. 2010. Dry grassland and oak forest.
20. Gánt: Kőhányáspuszta: Around 47°26'24.61" N, 18°21'0.99" E. 25. 04. 2010. Dry grassland along the forestry road.
21. Gánt: Őz Valley (Őz-völgy). Between 47°21'49.03" N, 18°21'2.70" E and 47°21'56.76" N, 18°20'57.48" E. 17. 04. 2010. At the border of Csákberény, dry rocky grassland along the forestry road.
22. Gánt: Páskom: Between 47°21'3.15" N, 18°20'27.10" E, and 47°21'2.51" N, 18°20'35.47" E. 01. 05. 2010, 07. 05. 2010 and 21. 05. 2010. Young fir plantation next to Csákberény.
23. Gánt: Róka-hegyi völgy (Valley below Róka Hill). Valley between Róka-hegy (Róka Hill) and Gántitető (Gánti Peak). Sweeping along the road to Csákvár. Between 47°23'47.73" N, 18°24'47.51" E and 47°23'43.75" N, 18°24'44.89" E. 03. 04. 2010 and 18. 04. 2010. (Fig. 6). Oak forest with fir plantation.
24. Gánt: Vérteskozma: dry bushy grassland, 200 m from the end of the village. Between 47°27'26.62" N, 18°25'50.63" E and 47°27'14.52" N, 18°25'44.19" E. 18. 04. 2010, 01. 08. 2010 and 08. 05. 2010.
25. Gánt: Vérteskozma: Fáni-völgy (Fáni Valley). Entrance of the valley. Between 47°26'58.30" N, 18°26'24.04" E and 47°27'3.62" N, 18°26'38.78" E. 12. 06. 2010, 19. 06. 2010 and 26. 06. 2010. Willow, poplar and disturbed (seminatural) grassland gradually changed by oak forest. Sweeping along the forestry road.
26. Gánt: Vérteskozma: Fáni-völgy (Fáni Valley). At the beginning of the forestry-road to Környe. Between 47°27'44.36" N, 18°26'30.59" E and 47°27'51.12" N, 18°26'15.21" E. 08. 05. 2010. Clearing in the oak forest.
27. Gánt: Vérteskozma: Kaszapkút. Between 47°26'39.65" N, 18°25'38.48" E and 47°26'45.46" N, 18°25'25.46" E. 03. 05. 2010, 08. 05. 2010, 22. 05. 2010, 29. 05. 2010, 06. 06. 2010, 12. 06. 2010, 19. 06. 2010, 10. 07. 2010, 01. 08. 2010, 05. 08. 2010, 08. 08. 2010, 12. 08. 2010, 14. 08. 2010 and 17. 08. 2010. (Fig. 5). Mixed vegetation: bushy area along the road, oak forest, clearings, dry grassland and fir plantation.
28. Gánt: Vérteskozma: Tócsa-völgy (Tócsa Valley). Between 47°26'22.07" N, 18°25'22.17" E and 47°26'19.52" N, 18°25'19.10" E. 03. 04. 2010 and 18. 04. 2010. Clearing in a fir forest.
29. Gánt-Bányatelep: Between 47°22'5.56" N, 18°23'16.80" E and 47°22'15.19" N, 18°23'20.65" E. 18. 04. 2010, 25. 04. 2010 and 27. 06. 2010. Dry dolomite grassland.
30. Környe. Meadow at Csákvári road. Between 47°30'40.79" N, 18°19'52.49" E and 47°30'37.97" N, 18°19'56.16" E. 14. 08. 2010 and 20. 08. 2010. Disturbed (seminatural) grassland.
31. Magyaralmás: Tóhely-domb (Tóhely Hill). Between 47° 19' 22.44" N, 18° 18' 07.69" E and 47° 19' 13.33" N, 18° 18' 11.85" E. 24. 04. 2010, 28. 06. 2010, 29. 06. 2010, 29. 06. 2010 and 17. 04. 2010. Dry rocky grassland with young fir plantation.
32. Mór: Árkpuszta, Around 47°24'25.15" N, 18°14'15.09" E. 01. 05. 2010. Young oak forest.

33. Mór: szőlőhegyek (vineyard hills). Along the way towards Harmatos-völgy (Harmatos Valley). Between 47° 22' 38.51" N, 18° 13' 44.31" E and 47° 23' 05.55" N and 18° 14' 07.41" E. 24. 04. 2010, 30. 04. 2010, 02. 05. 2010 and 09. 05. 2010. Mixed bushy area along the tourist road and dry grassland next to the vineyard hills.
34. Óbarok: Around 47°31'15.68" N and 18°31'2.49"E. 24. 04. 2010 and 09. 05. 2010. Clearing in oak and hornbeam forest.
35. Oroszlány: Eperjes. Around 47°27'50.79" N, 18°22'7.17" E. 23. 08. 2010. Clearing in oak forest: dry grassland.
36. Oroszlány: Bányászati múzeum (Mining Museum). Between 47°29'26.98" N, 18°20'39.86" E and 47°29'29.02" N, 18°20'35.13" E. 18. 04. 2010. Dry grassland and forest in the brook-valley.
37. Oroszlány: Csáki vár (Csáki castle). Fir forest. Between 47°26'35.49" N, 18°20'59.54" E and 47°26'43.57" N, 18°21'6.98" E. 19. 04. 2010 and 25. 04. 2010. Oak forest with older fir plantation.
38. Oroszlány: Gerencséri-erdő (Gerencséri forest): Around 47°25'47.87" N, 18°17'15.54" E. Dry oak forest.
39. Oroszlány: Kőhányás-erdő (Kőhányás Forest). Between 47°27'22.71" N, 18°22'0.93" E and 47°27'34.78" N, 18°21'32.63" E. 24. 05. 2010, 29. 05. 2010, 06. 06. 2010 and 27. 06. 2010. Fir plantation with ferns.
40. Oroszlány: Kőhányáspuszta. Around 47°27'20.46" N, 18°22'15.07" E. 24. 05. 2010, 17. 08. 2010 and 20. 08. 2010. Dry grassland.
41. Oroszlány: Majk: Remeteség. Former Carmelite cloister (later Esterházy Palace). Between 47°29'56.22" N, 18°20'19.15" E and 47°29'46.78" N, 18°20'27.29" E. 03. 04. 2010. Oak forest with hornbeam.
42. Oroszlány: Vértesszentkereszt: Abbey (Apátság). Around 47°26'37.59" N, 18°16'18.31"E. 04. 05. 2010. Oak forest with hornbeam.
43. Oroszlány: Vértesszentkereszt: Oak forest. 800 m from the abbey. Around 47°26'57.34" N, 18°16'31.98" E. 04. 05. 2010 and 07. 05. 2010. Oak forest with *Convallaria majalis*.
44. Pusztavám: Árkpuszta: Between 47°24'38.40" N, 18°15'2.91" E and 47°24'41.59" N, 18°15'3.66" E. 01. 05. 2010. Young oak forest with dry grassland.
45. Pusztavám: Égeres (Alder Woodland). Inside the village. Between 47° 25' 09.80" N, 18° 14' 34.58" E and 47 25 08.33 N and 18° 14' 40.18" E. 02. 05. 2010, 04. 05. 2010, 07. 05. 2010, 21. 05. 2010, 24. 05. 2010, 29. 05. 2010, 06. 06. 2010, 12. 06. 2010, 19. 06. 2010, 26. 06. 2010, 01. 08. 2010, 05. 08. 2010, 08. 08. 2010, 12. 08. 2010, 14. 08. 2010 and 17. 08. 2010. (Fig. 3). Marshy meadow with alder woodland.
46. Pusztavám: Forest clearing. Around 47°25'44.26" N, 18°15'27.54" E. 24. 05. 2010. Forest clearing in dry oak forest.
47. Söréd. Pasture. Between 47°19'45.40" N, 18°16'13.83" E and 47°19'39.87" N, 18°16'17.14" E. 17. 04. 2010 and 24. 05. 2010. Pasture with *Rosa* and *Crataegus* spp.
48. Szár. Around 47°29'3.53" N, 18°28'57.65" E. 03. 04. 2010. Oak forest with hornbeam.
49. Szár: Kálvária-domb (Kálvária Hill). Behind Kálvária Hill. Around 47°28'32.58" N, 18°31'59.18"E. 24. 04. 2010. Dry grassland with *Crataegus*.
50. Szár: Sósi-ér (Sósi Brook). Around 47°29'9.17" N, 18°30'55.67" E. Marshy meadow
51. Szárliget. Around 47°31'27.01" N, 18°28'56.77" E. Marshy meadow.
52. Tatabánya: Sík-völgy: Alder woodland. Between 47°32'54.84" N, 18°22'35.64" E and 47°32'49.87" N, 18°22'38.93" E. 21. 05. 2010. Marshy meadow with alder.
53. Várgesztes: Gesztesi-patak (Gesztesi Brook). Between 47°28'53.71" N, 18°23'28.72" E and 47°28'58.73" N, 18°23'29.31" E. 18. 04. 2010. Dry grassland on the slope above the brook.
54. Várgesztes: Lófő North (Lófő észak). Around 47°28'38.68" N, 18°25'37.16" E. 08. 05. 2010. Clearing in oak forest.
55. Várgesztes: Lófő South (Lófő dél). Around 47°28'34.10" N, 18°25'20.91" E. 08. 05. 2010. Clearing in oak forest.
56. Vértesboglár: Diós. Around 47° 26' 330" N, 18° 20' 911" E. 19. 04. 2010. Dry oak forest.
57. Vértesboglár: Fáni-völgy (Fáni Valley): Around 47°27'5.88" N, 18°28'35.69" E. 19. 04. 2010, 03. 05. 2010, 22. 05. 2010 and 29. 05. 2010. Dry oak forest.
58. Vértesboglár: Regália Fields (Regália földek) Between 47°26'19.64" N, 18°30'42.13" E and 47°26'32.00" N, 18°30'9.86" E. 25. 04. 2010. Disturbed (seminatural) grassland and mixed bushy area.



**Fig. 6: Gánt: Valley of Róka-hegy (Róka Hill)**



**Fig. 7: Csókakő Castle**





**Fig. 8: Oroszlány: Fishing pond**



**Fig. 9: Slopes covered with bauxite in Gánt**



**Fig. 10: Gánt: dolomite grassland**

59. Vértessboglár: Fishing pond. Opposite side of the road between 47°25'51.27" N, 18°31'54.74" E and 47°25'43.67" N, 18°32'8.16" E, 20. 08. 2010. Marshy meadow.

60. Vértesskozma: Inside the village at the church. Between 47°27'16.10" N, 18°26'11.00" E and 47°27'14.24" N, 18°26'16.34" E. 03. 04. 2010. Seminatural, cultivated meadow.

61. Vértessomló. Around 47°29' 08.62" N, 18°24'56.93" E. 08. 05. 2010. Beech forest with *Athyrium filix femina* and forest clearing.

62. Vértessomló: Gesztesi Book (Gesztesi-patak). Between 47° 29' 40.00" N, 18° 22' 28.02" E. and 47° 29' 38.38" N, 18° 22' 39.41" E. 09. 05. 2010. Alder woodland.

63. Vértessomló: Horgásztó (Fishing pond). Between 47° 30' 46.46" N, 18° 21' 29.81" E and 47° 30' 48.64" N and 18° 21' 23.41" E. 18. 04. 2010. Alder and willow vegetation and marshy meadow.

64. Vértessomló: Somló Hill (Somló-hegy). Between 47° 31' 07.92" N, 18° 22' 02.28" E and 47° 30' 53.12" and 18° 22' 06.05" E. 21. 05. 2010, 09. 05. 2010 and 21. 05. 2010. Oak forest.

65. Zámoly: Kerekszenttamás. At the ruins of a medieval round-church. The village of Kerekszenttamás was destroyed during the Turkish period. Between 47° 20' 38.74" N, 18° 23' 57.66" E and 47° 20' 58.65" N, 18° 23' 51.27" E. 03. 04. 2010, 17. 04. 2010, 23. 04. 2010, 02. 05. 2010, 30. 04. 2010, 03. 05. 2010, 04. 05. 2010, 07. 05. 2010, 29. 05. 2010, 06. 06. 2010 and 19. 06. 2010. (Fig. 4). Dry bushy grassland.



## List of species

**Symphyla*****Pamphiliidae***

*Neurotoma nemoralis* (Linné, 1758): Zámoly: Kerekszenttamás, 23. 04. 2010, 2 females, 1 male. Known hostplants: *Prunus mahaleb*, *P. armeniaca*, *P. spinosa* and *P. cerasus*. Locally frequent pest.

*Pamphilius alternans* (A. Costa, 1860): Zámoly: Kerekszenttamás. 02. 05. 2010, 1 female. Sporadic. Hostplant unknown.

*Pamphilius sylvaticus* (Linné, 1758): Zámoly: Kerekszenttamás. 02. 05. 2010, 2 females. One of the commonest sawfly species. Hostplants: *Sorbus aucupariae*, *Malus* spp., *Prunus* spp. and *Crataegus* spp.

*Pamphilius vafér* (Linné, 1767): Kumli-völgy (Kumli Valley), 09. 05. 1961, 1 female. Sporadic. Hostplants: *Alnus glutinosa*.

***Megalodontesidae***

*Megalodontes plagiocephalus* (Fabricius, 1804): Csákvár: Vásár-oldal, 26. 06. 2010, 1 female, 27. 06. 2010, 1 male, Magyaralmás: Tóhely-domb (Tóhely Hill) 29. 06. 2010, 7 females, 4 males, Csákvár, 16. 05. 1961, 1 male. One of the most frequent *Megalodontesidae* species. Known hostplant: *Peucedanum alsaticum*. Locally common in the Vértes Mountains.

***Argidae***

*Aproceros leucopoda* Takeuchi, 1939: Mór: szőlőhegyek (vineyard hills), 30. 04. 2010, 1 female. Frequent. Larva on *Ulmus* spp. Recently invaded Europe, known from Hungary, Poland, Slovakia, Austria, Romania, Ukraine and the Russian Far East (BLANK et al. 2010, CSÓKA et al. 2010).

*Aprosthemata maculatum* (Jurine, 1807): Gánt: Kápolnapuszta, 03. 05. 2009, 1 female. Rare, host-plant unknown.

*Arge berberidis* Schrank, 1802: Vértes: Hajdúvágás, 08. 05. 1961, 1 female. Frequent in Hungary but rare in the Vértes Mountains. Larva on *Berberis* and *Mahonia* spp.

*Arge frivaldszkyi* (Tischbein, 1852): Vértes: Gém-hegy, 30. 06. 1961, 1 male. Rare. Hostplant unknown.

*Arge ciliaris* (Linné, 1767): Gánt: Vérteskozma: Kaszapkút, 12. 06. 2010, 1 male. Sporadic. Larva on *Filipendula ulmaria* and *F. vulgaris*.

*Arge enodis* (Linné, 1767): Pustavám: Égeres (Alder Woodland), 21. 05. 2010, 1 female, 01. 08. 2010, 2 females, 1 male, 05. 08. 2010, 3 females, 1 male, 14. 08. 2010, 3 females, 17. 08. 2010, 1 female, Bokod: Hütő-tó, 18. 07. 2010, 1 female, 1 male, Gánt: Vérteskozma: Kaszapkút, 08. 08. 2010, 1 female, 12. 08. 2010, 1 female, 17. 08. 2010, 1 female, Vértesboglár: Fishing pond, 20. 08. 2010, 1 male, 1 female, Bodmér, 20. 08. 2010, 6 females, Szárliget, 23. 08. 2010, 2 females. One of the commonest *Argid* sawfly of the Vértes Mountains. Hostplants: *Salix* spp.

*Arge cyanocrocea* (Forster, 1771): Vértesomló, 08. 05. 2010, 1 female, Csákberény: Strázsa-hegy alja (Strázsa Hill), 21. 05. 2010, 1 female, Gánt: Vérteskozma: Kaszapkút, 22. 05. 2010, 1 male, 01. 08. 2010, 1 female, 08. 05. 2010, 1 male, 08. 08. 2010, 1 male, Gánt: Fáni-völgy (Fáni Valley), 22. 05. 2010, 2 males,



19. 06. 2010, 1 female, Pusztavám: Égeres (Alder Woodland), 12. 06. 2010, 1 male, 19. 06. 2010, 2 females, 12. 08. 2010, 1 female, Bokod: Hütő-tó, 18. 07. 2010, 1 female. Common species. Known hostplant: *Rubus idaeus*.

*Arge gracilicornis* (Klug, 1814): Pusztavám: Égeres (Alder Woodland), 26. 06. 2010, 1 female, 05. 08. 2010, 1 female, 08. 08. 2010, 2 males, 1 female, 12. 08. 2010, 2 females, 14. 08. 2010, 2 females, 17. 08. 2010, 1 female, Gánt: Vérteskozma: Kaszapkút, 05. 08. 2010, 2 males, 08. 08. 2010, 1 male, Oroszlány: Kőhányás, 17. 08. 2010, 1 male. Generally sporadic but frequent in the Vértes Mountains. Larva on *Rubus idaeus*.

*Arge melanochra* (Gmelin, 1790): Gánt: Páskom, 21. 05. 2010, 3 females, Pusztavám: Égeres (Alder Woodland), 21. 05. 2010, 1 female, 1 male, 01. 08. 2010, 1 female, 05. 08. 2010, 1 female, 06. 06. 2010, 1 female, 12. 06. 2010, 1 female, Zámoly: Kerekszenttamás, 29. 05. 2010, 1 female, 06. 06. 2010, 1 female, 19. 06. 2010, 1 female, 1 male, Vértesboglár: Fáni-völgy (Fáni Valley), 22. 05. 2010, 2 females, 1 male, Oroszlány: Kőhányáspuszta, 24. 05. 2010, 1 female, Csákvár: Murva-domb (Murva Hill), 22. 05. 2010, 1 female, Gánt: Vérteskozma: Kaszapkút, 29. 05. 2010, 4 females, 2 males, 06. 06. 2010, 4 females, 01. 08. 2010, 3 females, 12. 06. 2010, 5 females, 22. 05. 2010, 1 male, 08. 08. 2010, 2 males, 08. 08. 2010, 8 females, 3 males, Oroszlány: Kőhányás-erdő (Kőhányás Forest), 29. 05. 2010, 1 female, 1 male, 06. 06. 2010, 3 females, Gánt: Vérteskozma, 08. 05. 2010, 1 female, Csákberény: Strázsa-hegy alja (Strázsa Hill), 21. 05. 2010, 3 females, 3 males, Gánt: Fáni-völgy (Fáni Valley), 29. 05. 2010, 3 females, Söréd, 24. 05. 2010, 1 male, Vértesboglár: Fáni-völgy (Fáni Valley), 29. 05. 2010, 1 male, Gánt: Vérteskozma: Fáni-völgy (Fáni Valley), 26. 06. 2010, 1 female, Csákvár: Vásár-oldal, 27. 06. 2010, 4 females, Csákvár: Vásár-oldal, 10. 07. 2010, 2 males. The commonest *Argid* sawfly of the Vértes Mountains. Hostplant: *Crataegus oxyacantha*.

*Arge nigripes* (Retzius, 1783): Gánt: Vérteskozma: Kaszapkút, 08. 05. 2010, 1 female, Gánt: Vérteskozma: Fáni-völgy (Fáni Valley), 12. 06. 2010, 1 male, Gánt, 09. 05. 1998, 1 female. Sporadic. Hostplants: *Rosa* spp.

*Arge ochropus* (Gmelin, 1790): Bokod: Hütő-tó, 24. 05. 2010, 1 female, Zámoly: Kerekszenttamás, 19. 06. 2010, 2 females, 1 male, Csákvár: Vásár-oldal, 26. 06. 2010, 1 male, 27. 06. 2010, 2 males, Gánt-Bányatelep, 27. 06. 2010, 2 females, Magyaralmás: Tóhely-domb (Tóhely Hill) 29. 06. 2010, 1 female, Pusztavám: Égeres (Alder Woodland), 12. 08. 2010, 1 male, 17. 08. 2010, 1 male, Vértesboglár: Fishing pond, 20. 08. 2010, 1 female. Pest of *Rosa* spp. Locally frequent.

*Arge pagana pagana* (Panzer, 1798): Vértesomló: Somló Hill (Somló-hegy), 30. 04. 2010, 1 female, Gánt: Vérteskozma: Kaszapkút, 12. 06. 2010, 1 male, 01. 08. 2010, 1 male, 08. 08. 2010, 1 female, 12. 08. 2010, 1 female, 17. 08. 2010, 1 male, Gánt: Vérteskozma: Fáni-völgy (Fáni Valley), 12. 06. 2010, 1 male, Pusztavám: Égeres (Alder Woodland), 19. 06. 2010, 1 male, 01. 08. 2010, 1 female, Csókakő, June 1977, 1 male, Oroszlány: Eperjes, 23. 08. 2010, 2 females. Frequent. Hostplants: *Rosa* spp.

*Arge rustica* (Linné, 1758): Pusztavám: Égeres (Alder Woodland), 05. 08. 2010, 1 female. Sporadic. Hostplant: *Quercus* spp.

*Arge ustulata* (Linné, 1758): Pusztavám: Égeres (Alder Woodland), 05. 08. 2010, 1 female, Környe, 14. 08. 2010, 1 female. Sporadic. Hostplants: *Betula*, *Salix* and *Crataegus* spp.

*Sterictiphora angelicae* (Panzer, 1799): Csákvár: Vásár-oldal, 26. 06. 2010, 1 male, Csákvár: Vásár-oldal, 27. 06. 2010, 1 female, Gánt-Bányatelep, 27. 06. 2010, 1 female, Bokod: Hütő-tó, 18. 07. 2010, 1 male, Pusztavám: Égeres (Alder Woodland), 05. 08. 2010, 2 females. Frequent species. Hostplant unknown.

*Sterictiphora geminata* (Gmelin, 1790): Zámoly: Kerekszenttamás, 03. 05. 2010, 1 female. Sporadic. Hostplants *Rosa* spp.

*Sterictiphora longicornis* Chevin, 1982: Csókakő: Csókakő Castle (Csókakő váralja), 01. 05. 2010, 1 female, Szár: Kálvária-domb (Kálvária Hill), 24. 04. 2010, 1 male. Recently described species, rare. Hostplant unknown.

### ***Cimbicidae***

*Abia nitens* (Linné, 1758): Oroszlány: Kőhányás, 17. 08. 2010, 1 female, 2 males, 20. 08. 2010, 3 females. Sporadic. *Scabiosa columbaria* and *S. canescens*.

*Cimbex quadrimaculatus* (O. F. Müller, 1766): Müller: Gánt, 06. 05. 1979, 1 specimen (missing abdomen), Vértesacska: Cérna völgy, 01. 05. 1993, 1 male. Frequent pest. Larva on *Crataegus*, *Pyrus* and *Prunus* spp.

*Corynis crassicornis* (Rossi, 1790): Csákvár, 09. 05. 1961, 1 female, Vértes hgs.: Hajdúvágás, 29. 05. 1961, 5 females, 9 males, 08. 06. 1961, 1 female, 1 male. Sporadic. Hosts are *Sedum* spp. (*S. album*, *S. acre* and *S. sexangulare*) (Liston, 1997).

### ***Diprionidae***

*Gilpinia socia* (Klug, 1812): Gánt, 09. 05. 1998, 1 female. Rare. Larva on *Pinus sylvestris* and *P. mugo*.

### ***Siricidae***

*Tremex magus* (Fabricius, 1787): Szár, 17. 06. 1908, 1 female. Coll.: Ferenc Wachsmann. Rare. Larva lives in wood of *Betula*, *Quercus*, *Carpinus* and *Populus* spp.

### ***Cephiidae***

*Calameuta (Calameuta) filiformis* (Eversmann, 1847): Gánt: Kaszapkút, 22. 05. 2010, 1 male, 17. 05. 1993, 1 female, Vértes: Öreghegy (no date, after 1980), 1 female. Generally common species, frequent in the Vértes Mountains. Larva lives in stems of *Arrhenatherum elatius*, *Phalaris arundinacea*, *Calamagrostis epigejos*, *Elytrigia repens* and *Phragmites communis*.

*Calameuta (Calameuta) haemorrhoidalis* (Fabricius, 1781): Zámoly: Kerekszenttamás, 02. 05. 2010, 1 female, Gánt, 06. 05. 1978, 1 female. Frequent species. Hostplant unknown.

*Calameuta (Calameuta) pallipes* (Klug, 1803): Gánt: Páskom, 07. 05. 2010, 1 male, Csákvár: Murva-domb (Murva Hill), 22. 05. 2010, 1 male, Vértes: Kőhányás-puszt., 08. 05. 1961, 1 male, Vértes hgs.: Gyertyános, 10. 05. 1991, 1 female, Kőhányás, 26. 05. 1979, 1 male. Frequent species. Hostplants: diverse *Poaceae*.

*Cephus brachycercus* C. G. Thomson, 1871: Zámoly: Kerekszenttamás, 30. 04. 2010, 1 male. Widely distributed, sporadic species. Hostplant unknown.

*Cephus gracilis* A. Costa, 1860: Vértes hgs.: Hajdúvágás, 16. 05. 1961, 1 male. Rare. Hostplant unknown.

*Cephus pygmeus* (Linné, 1767): Pusztavám: Égeres (Alder Woodland), 24. 05. 2010, 1 female, Oroszlány: Kőhányás-erdő (Kőhányás Forest), 06. 06. 2010, 1 female. Generally common but only sporadic in the Vértes Mountains. Pest of cereals and grasses.

*Cephus spinipes* (Panzer, 1800) (syn. *Cephus cultratus* Eversmann, 1847): Vértessomló: Somló Hill (Somló-hegy), 30. 04. 2010, 1 female, Pusztavám: Égeres (Alder Woodland), 04. 05. 2010, 1 female, Oroszlány: Kőhányás-erdő (Kőhányás Forest), 24. 05. 2010, 2 females, Csákvár: Murva-domb (Murva Hill), 22. 05. 2010, 1 male. Frequent species. Known hostplant: *Phleum pratense*.

*Hartigia linearis* (Schrank, 1781): Gánt: vízmű (water plant), 26. 05. 2003, 1 female. Sporadic. Hostplant: *Agrimonia eupatoria*.

*Hartigia nigra* (Harris, 1776): Vértés hgs.: Petrecser, 16. 05. 1961, 1 female. Sporadic in the Vértés Mountains. Hostplants: *Rosa* and *Rubus* spp.

*Trachelus troglodyta* (Fabricius, 1787): Vértés hgs.: Petrecser, 16. 05. 1961, 1 female. Sporadic. Hostplant: *Secale cereale*.

### ***Tenthredinidae***

#### ***Dolerinae***

*Dolerus (Poodolerus) aeneus* Hartig, 1837: Csákvár: meadow under Szóló-kő, 03. 04. 2010, 1 male. Sporadic. Hostplant: *Poaceae*.

*Dolerus (Dolerus) bajulus* Serville, 1823: Pusztavám: Égeres (Alder Woodland), 01. 08. 2010, 2 males, 2 females, 05. 08. 2010, 1 male, 08. 08. 2010, 2 females, 14. 08. 2010, 2 females, 17. 08. 2010, 1 female. Frequent. Hostplants: *Equisetum* spp.

*Dolerus (Dolerus) bimaculatus* (Geoffroy, 1785): Gánt: Kaszapkút, 17. 05. 1993, 1 female. Sporadic. Larva on *Equisetum* spp.

*Dolerus (Oncodolerus) evermanni* W. F. Kirby, 1882: Gánt: Vértéskozma: Kaszapkút, 08. 05. 2010, 1 female. Frequent. Larva on *Equisetum arvense* and *E. palustre*.

*Dolerus (Dolerus) germanicus* (Fabricius, 1775): Pusztavám: Égeres (Alder Woodland), 02. 05. 2010, 1 male, 07. 05. 2010, 2 males, 01. 08. 2010, 1 female, Gánt: Kaszapkút, 17. 05. 1993, 1 female, 08. 08. 2010, 1 female, Bodmér, 20. 08. 2010, 1 male. Frequent. Larva on *Equisetum arvense* and *E. palustre*.

*Dolerus (Poodolerus) gonager* (Fabricius, 1781): Gánt: Csáki Castle (Csáki vár), 07. 05. 2010, 1 female, Csáki várrom, 14. 04. 1994, 1 female, 1 male. Generally common but only sporadic in the Vértés Mountains. Larva on *Poaceae*.

*Dolerus (Poodolerus) haematodes* (Schrank, 1781): Gánt: Róka-hegy, 17. 03. 2005, 1 female. Periodic pest of grasses and cereals. Generally sporadic but tend to outbreak. Hostplants: various *Poaceae* and also *Juncus*, *Scirpus* and *Carex* spp.

*Dolerus (Poodolerus) niger* (Linné, 1767): Gánt, 26. 05. 1979, 1 female. Sporadic. Larva on *Poaceae*.

*Dolerus (Poodolerus) nigratus* (O. F. Müller, 1776): Zámoly: Kerekszenttamás, 30. 04. 2010, 1 female, Oroszlány: Csáki vár (Csáki castle), 19. 04. 2010, 1 female, 25. 04. 2010, 1 female, Vértéskozma: 03. 04. 2010, 1 female, Gánt-Bányatelep, 25. 04. 2010, 1 female, Csákvár: Csíkvarsai -rét (Csíkvarsai Meadow), 17. 04. 2010, 1 female, 1 male, Várgesztes: Gesztesi-patak (Gesztesi Brook), 18. 04. 2010, 1 female, Zámoly: Kerekszenttamás, 07. 05. 2010, 1 female, Vértessomló: Horgásztó (Fishing pond), 18. 04. 2010, 1 male. Common. Larva on *Poaceae* including cereals.



*Dolerus (Poodolerus) picipes* (Klug, 1818): Gánt: Vérteskozma: Tócsa-völgy (Tócsa Valley), 18. 04. 2010, 1 female, Zámoly: Kerekszenttamás, 17. 04. 2010, 1 female, Oroszlány: Vértresszentkereszt: Oak forest, 07. 05. 2010, 1 female, Oroszlány: Csáki vár (Csáki castle), 19. 04. 2010, 1 male. Frequent. Larva on *Poaceae*.

*Dolerus (Poodolerus) puncticollis* C. G. Thomson, 1871: Zámoly: Kerekszenttamás. 03. 04. 2010, 3 females, 1, male, 23. 04. 2010, 2 females, 03. 05. 2010, 1 female, 17. 04. 2010, 1 male, Várgesztes: Gesztesi-patak (Gesztesi Brook), 18. 04. 2010, 1 female, Vértesboglár: Diós, 19. 04. 2010, 1 female, Söréd, 17. 04. 2010, 1 female, Gánt-Bányatelep, 25. 04. 2010, 1 female, Vérteskozma: 03. 04. 2010, 1 female, Pusztavám: Árkipusztá, 01. 05. 2010, 1 female, Csákberény: Halom-völgy (Halom Valley), 01. 05. 2010, 1 female, Gánt: Csáki Castle (Csáki vár), 07. 05. 2010, 1 female, Oroszlány: Majk: Cloister. 03. 04. 2010, 2 males, Vértessomló: Horgásztó (Fishing pond), 18. 04. 2010, 1 male, Mór: Árkipusztá, 01. 05. 2010, 1 male, Gánt, 06. 05. 1979, 2 females, Kőhányás, 23. 04. 1978, 1 male. Common. Larva on *Poaceae* including cereals.

*Dolerus (Dicrodolerus) vestigialis* (Klug, 1818): Bokod: Hütő-tó, 04. 05. 2010, 3 females, 01. 05. 2010, 1 female, 02. 05. 2010, 1 female, Pusztavám: Égeres (Alder Woodland), 07. 05. 2010, 1 female, 02. 05. 2010, 1 male. Locally frequent. Hostplants: *Equisetum palustre*, *E. sylvaticum*, *E. arvense* and *E. pratense*.

### *Selandrinae*

*Aneugmenus temporalis* (C. G. Thomson, 1871): Oroszlány: Kőhányás-erdő (Kőhányás Forest), 27. 06. 2010, 1 female. This imago was captured on leaf of *Athyrium filix-femina*. Rare. Larva recorded so far only from *Pteridium aquilinum*.

*Selandria serva* (Fabricius, 1793): Bodmér, 20. 08. 2010, 1 female, Szár: Sósi-ér (Sósi Brook), 23. 08. 2010, 1 female. Hostplants: grasses, sedges, rushes.

### *Allantinae*

*Allantus (Emphytus) cinctus* (Linné, 1758): Gánt: Páskom, 07. 05. 2010, 1 female, 21. 05. 2010, 1 female, Vértessomló, 08. 05. 2010, 1 female. Frequent. Hostplants: *Rosa* spp.

*Allantus (Emphytus) cingulatus* (Scopoli, 1763): Csákberény, 21. 05. 1978, 1 female. Frequent. Larva on *Fragaria* and *Rosa* spp.

*Allantus (Emphytus) didymus* (Klug, 1818): Zámoly: Kerekszenttamás. 02. 05. 2010, 1 female, Csákberény, 07. 05. 1998, 1 female. Sporadic. Larva on *Sanguisorba minor*: old records from *Rubus* and *Rosa* spp. need checking.

*Allantus (Emphytus) rufocinctus* (Retzius, 1783): Csókakő, 12. 05. 1974, 1 female. Sporadic. Hostplants: *Rubus* and *Rosa* spp.

*Ametastegia (Protemphytus) carpini* (Hartig, 1837): Mór: szőlőhegyek (vineyard hills), 24. 04. 2010, 1 male, Vértessomló: Somló Hill (Somló-hegy), 30. 04. 2010, 1 female. Sporadic. Hostplant: *Geranium* spp.

*Ametastegia (Protemphytus) tenera* (Fallén, 1808): Vértessomló: Somló Hill (Somló-hegy), 30. 04. 2010, 1 female, Csáki várrom, 14. 04. 1994, 1 male. Frequent. Larva on *Rumex* spp.

*Ametastegia (Protemphytus) pallipes* (Spinola, 1808): Mór: szőlőhegyek (vineyard hills), 30. 04. 2010, 1 female, Mór: Árkipusztá, 01. 05. 2010, 1 female. Frequent. Larva on *Viola* spp.

*Apethymus cerris* (Kollar, 1850): Csákvár: Haraszt hegy, 12. 10. 1986, 1 female, Csókakő, 21. 09. 1961, 2 males, Csókakő, 29. 09. 1961, 15 males. Sporadic or locally frequent. Hostplant: *Quercus cerris*.

*Apethymus serotinus* (O. F. Müller, 1776): Csókakő, 21. 09. 1961, 1 female. Sporadic. Hostplant: *Quercus* spp.

*Athalia bicolor* Serville, 1823: Gánt: Vérteskozma: Kaszapkút, 08. 05. 2010, 1 male. Frequent. Hostplant unknown.

*Athalia circularis* (Klug, 1815): Csákberény: Strázsa-hegy alja (Strázsa Hill), 21. 05. 2010, 1 female, Csákvár: Vászár-oldal, 27. 06. 2010, 1 female, Pusztavám: Égeres (Alder Woodland), 05. 08. 2010, 1 male, 08. 08. 2010, 1 female, 17. 08. 2010, 1 male, Bodmér, 20. 08. 2010, 1 female. Frequent. Hostplants: *Arctium lappa*, *Ajuga reptans*, *Veronica beccabunga*, *V. longifolia*, *V. officinalis*, *Alliaria petiolata*, *Glechoma hederacea*, *Melampyrum*, *Capsella* and *Lycopus* spp.

*Athalia cordata* Serville, 1823: Csákberény: Halom-völgy (Halom Valley), 01. 05. 2010, 1 male, Gánt: Páskom, 01. 05. 2010, 2 males, Csókakő: Csókakő Castle (Csókakő váralja), 01. 05. 2010, 1 female, Vértesboglár: Fáni-völgy (Fáni Valley), 22. 05. 2010, 1 male, Oroszlány: Kőhányás-erdő (Kőhányás Forest), 24. 05. 2010, 1 male, Szárliget, 23. 08. 2010, 1 female. Common. Larva on *Misopates orontinum*, *Antirrhinum majus*, *Ajuga reptans*, *Teucrium scorodonia* and *Plantago* spp.

*Athalia liberta* (Klug, 1815): Szár: Fáni-völgy, 31. 08. 1986, 1 female, Környe, 20. 08. 2010, 1 female. Frequent. Feeding on *Alliaria petiolata*, *Arabidopsis thaliana*, *Cardamine hirsuta* and *Sisymbrium officinale*.

*Athalia rosae* (Linné, 1758): Pusztavám: Égeres (Alder Woodland), 06. 06. 2010, 1 male, Zámoly: Kerekszenttamás, 06. 06. 2010, 1 male, Pusztavám: Égeres (Alder Woodland), 12. 06. 2010, 1 male, Gánt: Vérteskozma: Kaszapkút, 12. 06. 2010, 1 male, 05. 08. 2010, 1 male, 08. 08. 2010, 3 females, 1 male, Bokod: Hütő-tó, 24. 05. 2010, 1 female, Környe, 20. 08. 2010, 2 females, 1 male, Vértesboglár: Fishing pond, 20. 08. 2010, 2 females, Bodmér, 20. 08. 2010, 2 females, Oroszlány: Eperjes, 23. 08. 2010, 3 females, Szárliget, 23. 08. 2010, 2 females, 1 male, Szár: Sósi-ér (Sósi Brook), 23. 08. 2010, 2 females. Common pest. Hostplants: *Raphanus sativus*, *R. raphanistrum*, *Sinapis arvensis*, *Sisymbrium officinale*, *Armoracia rusticana*, *Barbarea sp.*, *Brassica napus*, *B. juncea*, *B. rapa*, *B. oleracea*, *Tropaeolum majus*, *Sinapis arvensis*, *Alliaria petiolata* and *Cardamine* spp.

*Empria hungarica* (Konow, 1895): Magyaralmás: Tóhely Hill (Tóhely-domb), 17. 04. 2010, 1 male. Rare. Larva on *Filipendula vulgaris*.

*Empria liturata* (Gmelin, 1790): Magyaralmás: Tóhely-domb (Tóhely Hill), 24. 04. 2010, 1 female, Csókakő: Békás-ér (Békás Brook), 24. 04. 2010, 1 male, Gánt-Bányatelep, 25. 04. 2010, 1 female, Vértesboglár: Regália Fields (Regália földek), 25. 04. 2010, 2 females, Mór: szőlőhegyek (vineyard hills), 30. 04. 2010, 1 female, Gánt: Kőhányáspusztá, 25. 04. 2010, 2 males, Oroszlány: Csáki vár (Csáki castle), 25. 04. 2010, 1 male, Vértesboglár: Diós, 19. 04. 2010, 1 female. Frequent. Hostplants: *Fragaria* and *Geum* spp.

*Empria parvula* (Konow, 1892): Söréd, 17. 04. 2010, 1 male. Sporadic. Hostplant unknown.

*Empria pumila* (Konow, 1896): Zámoly: Kerekszenttamás, 17. 04. 2010, 1 female. Sporadic. Hostplant unknown.

*Empria sexpunctata* (Serville, 1823) (syn.: *Empria klugii* (Stephens, 1835)): Csákvár:

Vérteskozma: Fáni-völgy (Fáni Valley), 25. 04. 2010, 1 female, Vértessomló: Somló Hill (Somló-hegy), 30. 04. 2010, 2 females, Csókakő: Csókakő Castle, 01. 05. 2010, 1 female, Gánt: Vérteskozma: Kaszapkút, 03. 05. 2010, 1 male. Frequent. Larva on *Geum* spp.

*Empria tridens* (Konow, 1896): Gánt, 26. 05. 1979, 1 female. Frequent. Hostplants: *Geum* spp. and *Rubus idaeus*.

*Riociampa umbratica* (Klug, 1816): Bokod: Hütő-tó, 01. 05. 2010, 1 male, Bokod: Hütő-tó, 02. 05. 2010, 1 male, Bokod: Hütő-tó, 04. 05. 2010, 2 males. Frequent on *Alnus glutinosa* and *A. incana*.

*Monsoma pulveratum* (Retzius, 1783): Bokod: Hütő-tó, 02. 05. 2010, 1 female. Sporadic. Living on *Alnus* and *Salix* spp.

### ***Heterarthrinae***

*Endelomya aethiops* (Fabricius, 1781): Gánt, 25. 04. 2010, 1 female. Sporadic. Larva on *Rosa* spp.

*Fenusa (Fenusa) dohrnii* (Tischbein, 1846): Pusztavám: Égeres (Alder Woodland), 02. 05. 2010, 1 female. Sporadic. Hostplants: *Alnus* spp.

*Profenusa pygmaea* (Klug, 1816): Gánt: Vérteskozma: Kaszapkút, 08. 05. 2010, 1 female. Sporadic. Hostplants: *Quercus* spp.

### ***Blennocampinae***

*Ardis sulcata* (Cameron, 1882): Várgesztes: Gesztesi-patak (Gesztesi Brook), 18. 04. 2010, 1 male. Rare. Hostplants: *Rosa* spp.

*Blennocampa phyllocolpa* Viitasaari & Vikberg, 1985 (syn.: *Blennocampa pusilla* (Klug, 1816)): Csákkerény: Buckahegy (Bucka Hill), 30. 04. 2010, 1 female. Frequent. Larva rolls the leaves of *Rosa* spp.

*Claremontia alternipes* (Klug, 1816): Csókakő, 12. 06. 1974, 1 female. Sporadic. Hostplant: *Rubus idaeus*.

*Claremontia brevicornis* (Brischke, 1883): Gánt: Róka-hegyi völgy (Valley below Róka Hill), 03. 04. 2010, 1 female, Gánt: Vérteskozma, 18. 04. 2010, 1 female. Sporadic. Hostplants: *Fragaria* spp., *Sanguisorba* spp. and *Potentilla reptans*.

*Claremontia puncticeps* (Konow, 1886): Gánt: Vérteskozma: Tócsa-völgy (Tócsa Valley), 03. 04. 2010, 2 females. Rather rare. Hostplant: *Sanguisorba minor*.

*Claremontia waldheimii* (Gimmerthal, 1847): Óbarok, 24. 04. 2010, 1 female, Gánt: Csáki Castle (Csáki vár), 07. 05. 2010, 1 female, Gánt: Vérteskozma: Kaszapkút, 08. 05. 2010, 1 female. Frequent. Hostplant: *Geum urbanum*.

*Eurhadinoceraea sanguinicollis* (Mocsáry, 1880): Csákkerény, 03. 05. 2005, 1 female. Rare. Hostplant probably *Clematis integrifolia*.

*Eutomostethus ephippium* (Panzer, 1798): Gánt: Vérteskozma: Kaszapkút, 08. 05. 2010, 1 male, Vértes: Kumli-völgy, 09. 05. 1961, 1 female. Common, but only sporadic in the Vértes Mountains. Larva on *Poaceae*.



*Monophadnoides rubi* (Harris, 1845): (*Monophadnoides geniculatus* (Hartig, 1837) sensu Zombori, 1990): Szár, Zuppa-hegy, 19. 04. 1989, 1 female. Frequent. Hostplant: *Rubus fruticosus*.

*Monophadnus latus* A. Costa 1894 (*Monophadnus longicornis* (Hartig, 1837) sensu Zombori, 1990): Gánt: Őz Valley (Őz-völgy), 17. 04. 2010, 1 female, Magyaralmás: Tóhely Hill (Tóhely-domb), 17. 04. 2010, 2 females, Oroszlány: Csáki vár (Csáki castle), 19. 04. 2010, 1 female. Sporadic. Hostplants: *Helleborus* spp.

*Monophadnus pallescens* (Gmelin, 1790): Csákvár, 26. 04. 1961, 1 female. Generally common, but rare in the Vértes Mountains. Hostplants: *Ranunculus acris*, *R. repens*, *R. lanuginosus* and *Anemone nemorosa*.

*Monophadnus spinolae* (Klug, 1816): Gánt: Vérteskozma: Fáni-völgy (Fáni Valley), 08. 05. 2010, 1 male. Frequent. Hostplants: *Clematis vitalba* and *C. flammula*.

*Pareophora pruni* (Linné, 1758): Zámoly: Kerekszenttamás, 23. 04. 2010, 1 female, Oroszlány: Vértresszentkereszt: Oak forest, 07. 05. 2010, 1 male, Csákvár, 01. 05. 1980, 1 female, Csákberény, 27. 04. 1999, 1 female. Frequent. Hostplant: *Prunus spinosa*.

*Periclista (Neocharactus) albipennis* (Zaddach, 1859): Gánt: Róka-hegyi völgy (Valley of Róka Hill), 18. 04. 2010, 1 female. New record for Hungary. Rare. Hostplants: *Quercus* spp.

*Periclista (Periclista) lineolata* (Klug, 1816): Csákberény: Halom-völgy (Halom Valley), 01. 05. 2010, 1 female. Rare. Hostplants: *Quercus* spp.

*Phymatocera aterrима* (Klug, 1816): Mór: szőlőhegyek (vineyard hills), 30. 04. 2010, 1 male, Vértessomló: Somló Hill (Somló-hegy), 30. 04. 2010, 1 female, Oroszlány: Vértresszentkereszt: Oak forest, 07. 05. 2010, 1 female, 1 male, Vértes hgs.: Fánien-völgy, 16. 05. 1961, 1 female. Frequent. Hostplants: *Polygonatum* spp.

*Rhadinoceraea reitteri* Konow, 1890: Csákvár: Huber-vágás, 19. 04. 2010, 1 male, Gánt: Kőhányáspuszta, 25. 04. 2010, 1 female, Vértessomló: Somló Hill (Somló-hegy), 30. 04. 2010, 1 female, Vértes: Gyertyános, 11. 05. 1985, 1 female. Locally frequent. Pest in gardens. Hostplants: *Iris pumila*, *I. germanica* and *I. sambucina*.

*Tomostethus nigrítus* (Fabricius, 1804): Vértes hgs.: Fánien-völgy, 28. 04. 1961, 2 females. Sporadic. Hostplant: *Fraxinus excelsior*.

### **Tenthredininae**

*Aglaostigma (Astochus) aucupariae* (Klug, 1817): Mór: szőlőhegyek (vineyard hills), 24. 04. 2010, 1 female, Csákvár: Vérteskozma: Fáni-völgy (Fáni Valley), 25. 04. 2010, 1 female, Csákberény: Halom-völgy (Halom Valley), 01. 05. 2010, 1 female, Vértessomló: Horgásztó (Fishing pond), 18. 04. 2010, 2 males, Csákvár, 16. 04. 2001, 1 female. Generally common but only frequent in the Vértes Mountains. Larva on *Galium mollugo* and *G. boreale*.

*Aglaostigma (Astochus) fulvipes* (Scopoli, 1763): Mór: szőlőhegyek (vineyard hills), 24. 04. 2010, 1 female, 1 male, Zámoly: Kerekszenttamás, 23. 04. 2010, 1 female, Vértessomló: Somló Hill (Somló-hegy), 30. 04. 2010, 1 female, Mór: Árkipuszta, 01. 05. 2010, 1 female, Szár: Kálvária-domb (Kálvária Hill), 24. 04. 2010, 1 male, Gánt, 25. 04. 2010, 1 male. Generally common but only frequent in the Vértes Mountains. Larva on *Galium mollugo* and *G. verum*.

*Macrophya (Macrophya) albicincta* (Schrank, 1776): Zámoly: Kerekszenttamás, 23. 04. 2010, 1 female, 02. 05. 2010, 1 female, 30. 04. 2010, 2 females, 04. 05. 2010, 1 female, Csókakő: Békás-ér (Békás Brook), 24. 04. 2010, 2 females, Mór: szőlőhegyek (vineyard hills), 24. 04. 2010, 3 females, 4 males, 30. 04. 2010, 5 females, Óbarok, 24. 04. 2010, 1 female, Vértesboglár: Regália Fields (Regália földek), 25. 04. 2010, 1 female, 1 male, Bokod: Hűtő-tó, 01. 05. 2010, 1 female, 02. 05. 2010, 3 females, 04. 05. 2010, 1 female, Pusztavám: Égeres (Alder Woodland), 02. 05. 2010, 1 female, 1 male, 07. 05. 2010, 1 female, 24. 05. 2010, 1 female, 12. 06. 2010, 1 female. Common. Hostplants: *Sambucus ebulus*, *S. nigra*, *S. racemosa*, *Valeriana officinalis* and *Viburnum opalus*.

*Macrophya (Macrophya) annulata* (Geoffroy, 1785): Mór: szőlőhegyek (vineyard hills), 09. 05. 2010, 1 male, Vértesboglár: Fáni-völgy (Fáni Valley), 22. 05. 2010, 1 male, Pusztavám: Égeres (Alder Woodland), 06. 06. 2010, 1 male, Gánt: Vérteskozma: Kaszapkút, 06. 06. 2010, 1 female, Csákvár, 16. 05. 1961, 1 male. Frequent. Larva on *Potentilla reptans*, *Origanum vulgare*, *Euphorbia*, *Rosa*, *Rubus* and *Sambucus* spp.

*Macrophya (Macrophya) blanda* (Fabricius, 1775): Vértes hgs. (Vértes Mountains, no closer locality data), 25. 05. 1961, 1 female. Generally frequent, but sporadic in the Vértes Mts.. Hostplant: *Potentilla reptans*.

*Macrophya (Macrophya) chrysur* (Klug, 1817): Petrecser, 16. 05. 1961, 1 male. Sporadic. Hostplant: *Daucus carota*.

*Macrophya (Macrophya) crassula* (Klug, 1817): Pusztavám: Égeres (Alder Woodland), 21. 05. 2010, 2 females. Sporadic. Hostplant: *Sambucus ebulus*.

*Macrophya (Macrophya) duodecimpunctata* (Linné, 1758): Pusztavám: Égeres (Alder Woodland), 29. 05. 2010, 1 male. Generally common but only sporadic or rare in the Vértes Mts.. Hostplants: *Poaceae*, *Cyperaceae* and *Carex* spp.

*Macrophya (Macrophya) militaris* (Klug, 1817): Pusztavám: Égeres (Alder Woodland), 12. 06. 2010, 1 female. Sporadic. Hostplant: *Rubus caesius*.

*Macrophya (Macrophya) montana* (Scopoli, 1763): Gánt: Vérteskozma: Kaszapkút, 22. 05. 2010, 1 female, 29. 05. 2010, 3 females, 2 males, 06. 06. 2010, 1 female, 12. 06. 2010, 1 female, 1 male, 19. 06. 2010, 1 female, 1 male, Vértesboglár: Fáni-völgy (Fáni Valley), 22. 05. 2010, 1 female, Pusztavám: erdei tisztás (forest clearing), 24. 05. 2010, 1 female, Gánt: Fáni-völgy (Fáni Valley), 29. 05. 2010, 1 male, Pusztavám: Égeres (Alder Woodland), 06. 06. 2010, 2 females, 1 male, Oroszlány: Kőhányás-erdő (Kőhányás Forest), 06. 06. 2010, 1 female, 1 male, Gánt: Vérteskozma: Fáni-völgy (Fáni Valley), 12. 06. 2010, 2 males, 26. 06. 2010, 1 female, Pusztavám: Égeres (Alder Woodland), 19. 06. 2010, 2 females, Csákvár: Vásár-oldal, 26. 06. 2010, 1 female, 1 male, 27. 06. 2010, 1 female, 1 male, Vértes : Hajdúvágás, 08. 06. 1961, 2 males, Csákvár, 19. 06. 1961, 1 female. Common. Hostplant: *Rubus caesius*.

*Macrophya (Macrophya) postica* (Brullé, 1832): Pusztavám: Égeres (Alder Woodland), 19. 06. 2010, 1 female. Generally frequent, rare in the Vértes Mts. Hostplant unknown.

*Macrophya (Pseudomacrophya) punctumalbum* (Linné, 1767): Hajdúvágás, 12. 05. 1961, 1 female, Fánien-völgy, 16. 05. 1961, 1 female. Sporadic. Hostplants: *Fraxinus* spp. and *Ligustrum* spp.

*Macrophya (Macrophya) ribis* (Schrank, 1781): Gánt: Vérteskozma: Fáni-völgy (Fáni Valley), 12. 06. 2010, 1 female. Generally frequent, rare in the Vértes Mts. Larva on *Sambucus nigra*.

*Macrophya (Macrophya) rufipes* (Linné, 1758): Csákvár: Vásár-oldal, 27. 06. 2010, 1 male. Sporadic. Larva on *Agrimonia eupatoria*.

*Macrophya (Macrophya) sanguinolenta* (Gmelin, 1790): Gánt: Páskom, 01. 05. 2010, 1 female, Várgesztes: Lófő Észak, 08. 05. 2010, 1 female. Sporadic. Larva on *Galeopsis* spp., *Senecio* spp. and *Veronica* spp.

*Pachyprotasis rapae* (Linné, 1767): Mór: szőlőhegyek (vineyard hills), 24. 04. 2010, 4 males, 30. 04. 2010, 1 female, Gánt: Vérteskozma: Kaszapkút, 08. 05. 2010, 1 female, 14. 08. 2010, 1 female, 17. 08. 2010, 2 females, Vértes hgs.: Horog-v., 19. 05. 1993, 1 male. Generally common but only frequent in the Vértes Mts. Hostplants: *Solanum tuberosum*, *Pedicularis palustris*, *Angelica sylvestris*, *Veronica beccabunga*, *Betonica officinalis*, *Corylus avellana*, *Salix caprea*, *Fraxinus excelsior*, *Tussilago farfara*, *Symphoricarpos albus*, *Scrophularia*, *Solidago*, *Verbascum*, *Origanum*, *Atropa*, *Sarothamnus*, *Senecio*, *Polygonum*, *Aspidium*, *Epilobium*, *Hypericum*, *Galeopsis*, *Mentha*, *Polystichum*, *Plantago*, *Quercus* and *Stachys* spp.

*Pachyprotasis variegata* (Fallén, 1808): Csákvár, 16. 05. 1961, 1 female. Sporadic. Hostplants: *Solanum tuberosum*, *Leontodon hispidus*, *Leucanthemum vulgare* and *Digitalis* spp.

*Rhogogaster (Rhogogaster) viridis* (Linné, 1758): Gánt: Vérteskozma: Kaszapkút, 08. 05. 2010, 1 male. Frequent but sporadic in the Vértes Mts. Hostplants: *Chamaerion angustifolium*, *Salix* spp., *Populus* spp., *Alnus* spp., *Quercus* spp., *Filipendula* spp., *Stellaria* spp. and *Circaea* spp.

*Sciapteryx consobrina* (Klug, 1816): Csákberény: Meszes Valley (Meszes-völgy), 17. 04. 2010, 1 female, Mór: szőlőhegyek (vineyard hills), 24. 04. 2010, 1 female, 1 male, Oroszlány: Gerencséri-erdő (Gerencséri Forest) 02. 04. 2010, 1 male, Szár: 03. 04. 2010, 1 male, Oroszlány: Bányászati múzeum (Mining Museum), 18. 04. 2010, 1 male. Generally common but only frequent in the Vértes Mts. Larval hosts: *Adoxa* spp., *Anemone* spp. and *Ranunculus ficaria*.

*Tenthredo (Zonuledo) amoena* Gravenhorst, 1807: Gánt: Vérteskozma: Kaszapkút, 05. 08. 2010, 1 male, 08. 08. 2010, 2 females, 1 male, 12. 08. 2010, 1 female, 3 males, 14. 08. 2010, 1 male, 17. 08. 2010, 1 female, Pusztavám: Égeres (Alder Woodland), 08. 08. 2010, 1 male. Sporadic. Hostplants: *Hypericum perforatum* and *H. maculatum*.

*Tenthredo (Tenthredella) atra* Linné, 1758: Bokod: Hütő-tó, 02. 05. 2010, 1 female, Kumli-völgy, 09. 05. 1961, 2 females. Frequent. Larval hosts: *Lamium*, *Mentha*, *Plantago*, *Vicia*, *Ranunculus*, *Scabiosa*, *Brassica* and *Solanum* spp.

*Tenthredo (Cephalredo) bifasciata ssp. rossii* (Panzer, 1804): Zámoly: Kerekszenttamás, 29. 05. 2010, 1 male, 06. 06. 2010, 1 male, Gánt: Vérteskozma: Kaszapkút, 19. 06. 2010, 2 females, 05. 08. 2010, 1 male, 08. 08. 2010, 1 male, Gánt-Bányatelep, 27. 06. 2010, 2 females. Frequent. Hostplants: *Scrophularia* and *Verbascum* spp.

*Tenthredo (Cephalredo) bifasciata ssp. violacea* (Ed. André, 1881): Gánt: Vérteskozma: Kaszapkút, 10. 07. 2010, 1 male, Gánt: Vérteskozma, 01. 08. 2010, 1 female. Frequent. Hostplant unknown.

*Tenthredo (Endotethyrix) campestris* Linné, 1758: Pusztavám: Égeres (Alder Woodland), 21. 05. 2010, 1 female, 06. 06. 2010, 1 female, 12. 08. 2010, 1 female, Gánt: Vérteskozma: Fáni-völgy (Fáni Valley), 19. 06. 2010, 2 females, Gánt: Vérteskozma: Fáni-völgy (Fáni Valley), 26. 06. 2010, 2 males. Frequent. Hostplant: *Aegopodium podagraria*.

*Tenthredo (Cephaledo) costata* Klug, 1817: Vértes hgs.: Hajdúvágás, 29. 05. 1961, 1 female, Csákvár, 19. 06. 1961, 1 female. Hostplant unknown. Frequent in Balkan and South-East Europe. It has not been collected in Hungary for 50 years.

*Tenthredo (Zonuledo) distinguenda* (Stein, 1885): Vértesomló: Gesztesi-patak (Gesztesi Brook), 09. 05. 2010, 1 male, Vértesboglár: Fáni-völgy (Fáni Valley), 22. 05. 2010, 2 males, 29. 05. 2010, 1 female, Oroszlány: Kőhányás-erdő (Kőhányás Forest), 24. 05. 2010, 1 male, Vértes : Kőhányás puszta, 08. 05. 1961, 1 female, 1 male, Csákvár, 19. 06. 1961, 1 female, 1 male, Gánt, 30. 05. 1993, 1 male. Frequent. Hostplant unknown.

*Tenthredo (Cephaledo) excellens* (Konow, 1886): Gánt: Vérteskozma, 08. 05. 2010, 1 female. Sporadic. Hostplant unknown.

*Tenthredo (Tenthredella) livida* Linné, 1758: Pusztavám, 31. 05. 1979, 1 female. Frequent, but rare in the Vértes Mts. Hostplants: *Epilobium* spp., *Rosa* spp., *Sorbus aucuparia*, *Salix* spp., *Corylus avellana*, *Carpinus betulus*, *Plantago* spp., *Fraxinus excelsior*, *Viburnum album*, *Lonicera* spp., *Symphoricarpos alba*, *Arctium* spp., *Lamium album*, *Melissa officinalis*, *Pteridium aquilinum* and *Athyrium filix-femina*.

*Tenthredo (Maculedo) maculata* Geoffroy, 1785: Mór: szőlőhegyek (vineyard hills), 30. 04. 2010, 1 female, Oroszlány: Vérteszentkereszt: Oak forest, 04. 05. 2010, 1 male, Vértesboglár: Fáni-völgy (Fáni Valley), 22. 05. 2010, 1 male, 16. 05. 1961, 1 female. Sporadic. Host plants: *Brachypodium* spp. and *Dactylis* spp.

*Tenthredo (Tenthredella) mandibularis* Fabricius, 1804: Vértes hgs.: Fánien-völgy, 27. 07. 1961, 1 male. Sporadic. Hostplants: *Petasites* and *Tussilago* spp.

*Tenthredo (Tenthredo) marginella* Fabricius, 1793: Gánt: Vérteskozma: Kaszapkút, 12. 08. 2010, 1 female, 17. 08. 2010, 2 females. Frequent. Hostplants: *Mentha* spp., *Ocimum* spp.

*Tenthredo (Eurogaster) mesomela* Linné, 1758: Gánt: Vérteskozma: Fáni-völgy (Fáni Valley), 19. 06. 2010, 2 females. Generally frequent but sporadic in the Vértes Mts. Larval hosts: *Polygonum persicaria*, *Arctium lappa*, *Heracleum* spp., *Ranunculus* spp., *Epilobium* spp., *Rumex* spp., *Salix* spp., *Veronica* spp., *Tussilago* spp., *Petasites* spp., *Senecio* spp., *Solidago* spp., and *Stachys* spp.

*Tenthredo (Cephaledo) neobesa* Zombori, 1980: Gánt: Vérteskozma: Kaszapkút, 08. 08. 2010, 1 female. Sporadic. Larva on *Sonchus arvensis* and *Hieraceum* spp.

*Tenthredo (Tenthredo) notha* Klug, 1817: Pusztavám: Égeres (Alder Woodland), 08. 08. 2010, 1 female, 12. 08. 2010, 1 female, 14. 08. 2010, 1 female, 17. 08. 2010, 1 female. Frequent. Hostplants: *Trifolium repens* and *Vicia cracca*.

*Tenthredo (Tenthredo) omissa* (Förster, 1844): Vértesboglár: Fishing pond, 20. 08. 2010, 1 female, Szár: Sósi-ér (Sósi Brook), 23. 08. 2010, 4 females. Frequent. Hostplants: *Plantago media* and *P. lanceolata*.

*Tenthredo (Tenthredo) scrophulariae* Linné, 1758: Vértes: Kőhegy, 1979 05. 27. 1 female, Pusztavám: Égeres (Alder Woodland), 08. 08. 2010, 1 female. Sporadic. Larva on *Scrophularia* and *Verbascum* spp.

*Tenthredo (Tenthredella) solitaria* Scopoli, 1763: Vértesomló: Somló-hegy, 09. 05. 2010, 1 female. Montane species, sporadic in Hungary. Larva on *Euphorbia cyparissias*.



*Tenthredo (Temuledo) temula* Scopoli, 1763: Mór: szőlőhegyek (vineyard hills), 30. 04. 2010, 1 female, Zámoly: Kerekszenttamás, 04. 05. 2010, 1 female, Csákberény: Strázsa-hegy alja (Strázsa Hill), 21. 05. 2010, 1 female, Gánt: Vérteskozma: Kaszapkút, 29. 05. 2010, 1 female, 06. 06. 2010, 3 females, Vértes: Köhegy, 27. 05. 1979, 2 males, 2 females, Gánt, 26. 05. 1979, 1 female. Common. Larva on *Ligustrum* and *Origanum* spp.

*Tenthredo (Tenthredo) thompsoni* (Curtis, 1839): Gánt: Vérteskozma: Kaszapkút, 08. 08. 2010, 1 female, 1 male, 12. 08. 2010, 1 female, 14. 08. 2010, Oroszlány: Kőhányás, 20. 08. 2010, 1 female, Bodmér, 20. 08. 2010, 1 female. Frequent. Hostplant unknown.

*Tenthredo (Tenthredo) vespa* Retzius, 1783: Vértes hgs.: Fánien-völgy, 08. 08. 1961, 1 female, Gánt: Vérteskozma: Kaszapkút, 01. 08. 2010, 2 females, 1 male, 05. 08. 2010, 1 female, 08. 08. 2010, 2 males, 12. 08. 2010, 1 female, 2 males, Gánt: Fáni-völgy (Fáni Valley), 01. 08. 2010, 1 female, Csákberény: Horog-völgy (Horog Valley), 05. 08. 2010, 2 females, Oroszlány: Kőhányás, 17. 08. 2010, 1 female. Frequent. Hostplants: *Lonicera caprifolium*, *Syringa vulgaris*, *Viburnum opulus*, *Fraxinus excelsior*, *Jasminum officinale*, *Rosa*, *Spiraea*, *Acer platanoides*, *Ligustrum vulgare*, *Symphoricarpos albus*, *S. alba*.

*Tenthredo (Maculedo) vespiformis* Schrank, 1781: Vértes: Köhegy, 27. 05. 1979, 1 male. Rare in Hungary. Hostplant unknown.

*Tenthredo (Zonuledo) zonula* Klug, 1817: Csákberény: Strázsa-hegy alja (Strázsa Hill), 21. 05. 2010, 2 females, 1 male, Gánt: Vérteskozma: Kaszapkút, 22. 05. 2010, 1 male, 12. 06. 2010, 2 males, Gánt: Fáni-völgy (Fáni Valley), 22. 05. 2010, 1 female, Vértesboglár: Fáni-völgy (Fáni Valley), 22. 05. 2010, 1 female, 29. 05. 2010, 1 female, Oroszlány: Kőhányás-erdő (Kőhányás Forest), 29. 05. 2010, 1 female, 06. 06. 2010, 1 female, Zámoly: Kerekszenttamás, 29. 05. 2010, 1 male, Csákvár: Vásár-oldal, 26. 06. 2010, 2 females, Csákvár, 19. 06. 1961, 1 female, 1 male, Vértes: Petrecser, 16. 05. 1961, 5 females, 4 males, Vértes: Hajdúvágás, 08. 06. 1961, 1 female, 1 male, Vértes : Kőhányás pusztja, 08. 05. 1961, 1 female. Frequent. Hostplant: *Hypericum perforatum*.

*Tenthredopsis friesei* (Konow, 1884): Tatabánya: Síkvölgy, 21. 05. 2010, 1 female, Vértessomló: Somló-hegy, 21. 05. 2010, 1 female, Oroszlány: Vértresszentkereszt: Oak forest, 07. 05. 2010, 1 female, Kumli-völgy, 09. 05. 1961, 1 female, Csókakő, 12. 05. 1974, 2 males. Frequent. Hostplants: *Holcus mollis* and other *Poaceae*.

*Tenthredopsis lactiflua* (Klug, 1817): Vértesboglár: Regália Fields (Regália földek), 25. 04. 2010, 1 male, Csákberény, 06. 05. 1979, 1 female. Sporadic. Hostplant unknown.

*Tenthredopsis nassata* (Linné, 1767): Oroszlány: Kőhányás-erdő (Kőhányás Forest), 24. 05. 2010, 1 female. Frequent, but rare in the Vértes Mts. Hostplants: *Dactylis glomerata*, *Deschampsia cespitosa*, *D. calmagrostis*, *Flexuosa* spp., *Holcus* spp., *Lolium perenne*, *Agropyron* spp., *Carex* spp., *Anthriscus silvestris* and *Artemisia* spp.

*Tenthredopsis ornata* (Serville, 1823) (syn. *Tenthredopsis excisa* (C. G. Thomson, 1870)): Csákberény: Buckahegy (Bucka Hill), 30. 04. 2010, 1 female, Oroszlány: Vértresszentkereszt: Oak forest, 07. 05. 2010, 1 female, Csákvár, 26. 04. 1961, 1 female, Csákvár, 09. 05. 1961, 1 male. Sporadic. Larva on *Brachypodium sylvaticum*.

*Tenthredopsis sordida* (Klug, 1817): Pusztavám: Égeres (Alder Woodland), 21. 05. 2010, 1 female, Zámoly: Kerekszenttamás. 02. 05. 2010, 1 female, 04. 05. 2010, 1 female, 07. 05. 2010, 1 male, Oroszlány: Vértresszentkereszt: Oak forest, 07. 05. 2010, 1 female, Vértessomló: Gesztesi-patak (Gesztesi Brook), 09. 05.

2010, 1 female, Bokod: Hütő-tó, 02. 05. 2010, 1 male, Gánt: Vérteskozma, 08. 05. 2010, 1 male. Frequent. Larva on *Arrhenatherum elatius*, *Lolium perene*, *Carex* spp., *Calamagrostis* spp. and *Dactylis glomerata*.

*Tenthredopsis stigma* (Fabricius, 1798): Csákberény: Strázsa-hegy alja (Strázsa Hill), 21. 05. 2010, 3 females, Vértesboglár: Fáni-völgy (Fáni Valley), 22. 05. 2010, 1 female, 29. 05. 2010, 1 female, 03. 05. 2010, 1 male, Gánt: Páskom, 21. 05. 2010, 1 female, Mór: szőlőhegyek (vineyard hills), 02. 05. 2010, 1 female, 09. 05. 2010, 1 male, Csákberény: Buckahegy (Bucka Hill), 30. 04. 2010, 1 female, Oroszlány: Kőhányáspuszta, 24. 05. 2010, 1 female, Zámoly: Kerekszenttamás, 29. 05. 2010, 1 female, 02. 05. 2010, 1 male, Gánt: Fáni-völgy (Fáni Valley), 22. 05. 2010, 1 male, Gánt, 26. 05. 1979, 1 female. Frequent. Hostplant: *Triticum intermedium*.

*Tenthredopsis tarsata* (Fabricius, 1804): Bokod: Hütő-tó, 01. 05. 2010, 1 male, Zámoly: Kerekszenttamás, 02. 05. 2010, 1 male, 03. 05. 2010, 1 male, Oroszlány: Vérteszentkereszt: Oak forest, 04. 05. 2010, 2 males, 07. 05. 2010, 3 females, 3 males, Óbarok, 09. 05. 2010, 1 male, Várgesztes: Lőfő Dél, 08. 05. 2010, 2 males, Mór: szőlőhegyek (vineyard hills), 09. 05. 2010, 3 males, Vértes hgs.: Kőhányás puszta., 08. 05. 1961, 1 male, Gánt: Som-hegy, 11. 05. 1961, 1 male, Csókakő, 12. 05. 1974, 1 female, 1 male. Frequent. Hostplants: *Poaceae* particularly *Brachypodium silvaticum*.

*Tenthredopsis tessellata* (Klug, 1817): Szár: Kálvária-domb (Kálvária Hill), 24. 04. 2010, 1 male, Vértes hgs.: Petrecser, 16. 05. 1961, 1 female, Vértes hgs.: Kőhányás pta., 08. 05. 1961, 1 female, Csákberény, 06. 05. 1979, 1 female, Gánt, 06. 05. 1979, 3 females, 1 male. Sporadic. Larva on *Deschampsia*, *Dactylis*, *Aira* and *Lolium* spp.

### *Nematinae*

*Amauronematus (Amauronematus) humeralis* (Serville, 1823): Csákvár, 16. 04. 2000, 1 female. New record for Hungary. Hostplant: *Salix atrocinerea*.

*Cladius (Priophorus) compressicornis* (Fabricius, 1804) (syn. *Priophorus pallipes* (Serville, 1823)): Gánt: Vérteskozma: Kaszapkút, 08. 05. 2010, 1 male, Csákvár, 26. 04. 1961, 1 female. Frequent pest. Hostplants: *Betula*, *Cotoneaster*, *Prunus*, *Rubus*, *Sorbus*, *Fragaria*, *Crataegus*, *Corylus* and *Rosa* spp.

*Cladius (Cladius) pectinicornis* (Geoffroy, 1785): Zámoly: Kerekszenttamás, 30. 04. 2010, 1 female, 02. 05. 2010, 3 females, 04. 05. 2010, 2 females, Gánt, 26. 05. 1979, 1 female, 26. 07. 1978., 1 male, Csákberény, 27. 04. 1999, 1 male, Csákvár, 26. 05. 1999, 1 male, Vértes hgs., 22. 04. 2002, 1 female, Kőhányás, 22. 04. 2003, 1 male, Bokod: Hütő-tó, 18. 07. 2010, 1 male, Gánt: Vérteskozma: Kaszapkút, 08. 08. 2010, 1 female, 12. 08. 2010, 1 female, Oroszlány: Kőhányás, 20. 08. 2010, 1 female, Vértesboglár: Fishing pond, 20. 08. 2010, 1 male. Frequent. Larval hosts: *Fragaria*, *Rosa*, *Filipendula* spp., *Poterium sanguisorba*, *Lamiastrum galeobdolon* and *Comarum palustre*.

*Cladius (Priophorus) rufipes* (Serville, 1823): Mór: szőlőhegyek (vineyard hills), 24. 04. 2010, 1 male. Sporadic. Larva on *Ulmus* spp.

*Euura (Euura) atra* (Jurine, 1807): Bokod: Hütő-tó, 02. 05. 2010, 1 male. Frequent. Larva on *Salix* spp.

*Hoplocampa brevis* (Klug, 1816): Tatabánya (Nagy, 1994). Sporadic pest of *Pyrus* and *Malus* spp.

*Hoplocampa chrysoorrhoea* (Klug, 1816): Zámoly: Kerekszenttamás, 17. 04. 2010, 1 female, Gánt: Őz Valley (Őz-völgy), 17. 04. 2010, 2 females, Gánt: Róka-hegyi völgy (Valley of Róka Hill), 18. 04. 2010, 1 female, Gánt: Vérteskozma, 18. 04. 2010, 1 female, Oroszlány: Bányászati múzeum (Mining Museum),

18. 04. 2010, 1 female, Csákvár, 01. 05. 1980, 1 female. Sporadic, locally frequent. Hostplants: *Prunus* spp., particularly *Prunus spinosa* and *P. avium*.

*Hoplocampa crataegi* (Klug, 1816): Csákberény: Halom-völgy (Halom Valley), 01. 05. 2010, 2 females, 1 male, Mór: Árkipusztá, 01. 05. 2010, 4 females, 1 male, Zámoly: Kerekszenttamás. 02. 05. 2010, 1 female, Oroszlány: Vértesszentkereszt: Abbey, 04. 05. 2010, 1 female, Csákvár: Hajdúvágás, 09. 05. 1961, 1 female, Vértes: Kaszapkút, 17. 05. 1995, 1 female, Csákberény, 01. 05. 1977, 1 female. Frequent. Hostplants: *Crataegus* spp.

*Hoplocampa flava* (Linné, 1761): Zámoly: Kerekszenttamás. 02. 05. 2010, 1 female. Sporadic pest. Hostplants: *Prunus domestica* and *P. spinosa*.

*Hoplocampa fulvicornis* (Panzer, 1801) (syn.: *Hoplocampa rutilicornis* (Klug, 1816)): Zámoly: Kerekszenttamás, 17. 04. 2010, 4 females, Gánt-Bányatelep, 18. 04. 2010, 1 male, Csákvár, 01. 05. 1980, 1 female. Generally sporadic but frequent in the Vértes Mts.. Larva on *Prunus spinosa*.

*Nematinus bilineatus* (Klug, 1819): Pusztavám: Égeres (Alder Woodland), 07. 05. 2010, 1 female, Vértes hgs.: Kumli-völgy, 09. 05. 1961, 1 female. Sporadic. Hostplants: *Alnus* spp.

*Nematus (Pteronidea) bergmanni* Dahlbom, 1835: Vértes: Kumli-völgy, 09. 05. 1961, 1 male. Frequent. Hostplant: *Salix*.

*Nematus (Pteronidea) myosotidis* (Fabricius, 1804): Bokod: Hütő-tó, 04. 05. 2010, 1 male, 02. 05. 2010, 1 male, Pusztavám: Égeres (Alder Woodland), 07. 05. 2010, 1 male, Vértesboglár: Fishing pond, 20. 08. 2010, 1 male. Common. Hostplants: *Onobrychis* and *Trifolium* spp.

*Pachynematus (Pachynematus) clitellatus* (Serville, 1823): Szár: Zuppa-hegy, 19. 04. 1989, 1 female. Frequent. Larval hosts: *Poaceae*, *Carex* and *Juncus* spp.

*Pachynematus (Pachynematus) vagus* (Fabricius, 1781): Vérteskozma, 02. 06. 1941, 1 female, Gánt: Vérteskozma: Kaszapkút, 17. 08. 2010, 1 female. Sporadic. Larva on *Carex* spp.

*Platycampus luridiventris* (Fallén, 1808): Pusztavám: Égeres (Alder Woodland), 02. 05. 2010, 1 female. Sporadic. Larva on *Alnus glutinosa*.

*Pontania (Pontania) proxima* (Serville, 1823): Bokod: Hütő-tó, 04. 05. 2010, 1 female. Frequent, larva on *Salix fragilis* and *S. alba*.

*Pristiphora (Pristiphora) appendiculata* (Hartig, 1837): Zámoly: Kerekszenttamás, 30. 04. 2010, 1 female. Generally common but sporadic in the Vértes Mountains. Hostplants: *Ribes uva-crispa* and *R. rubrum*.

*Pristiphora (Pristiphora) armata* (C. G. Thomson, 1863): Fánien-völgy, 08. 08. 1961, 1 female. Frequent. Larva on *Crataegus* spp.

*Pristiphora (Pristiphora) bifida* (Hellén, 1947): Óbarok, 24. 04. 2010, 1 female, Gánt: Vérteskozma, 08. 05. 2010, 1 female, Várgesztes: Lőfő Dél, 08. 05. 2010, 1 female. Sporadic. Larva on *Salix* spp.

*Pristiphora (Gymnonychus) biscalis* (Förster, 1854): Gánt: bauxitbánya (bauxite mine), 25. 04. 2010, 1 female. New record for Hungary. Hostplant: *Prunus spinosa*.

*Pristiphora (Micronematus) monogyniae* (Hartig, 1840): Óbarok, 24. 04. 2010, 1 female. Sporadic. Hostplant: *Prunus spinosa* occasionally *P. domestica*.

*Pristiphora (Pristiphora) subbifida* (C. G. Thomson, 1871): Mór: szőlőhegyek (vineyard hills), 24. 04. 2010, 1 female, Zámoly: Kerekszenttamás, 03. 05. 2010, 1 female. Sporadic. Hostplants: *Acer campestre*, perhaps occasionally *A. pseudoplatanus*.

## Discussion of the results

The recorded 167 species is a respectable number, although the results from one year of intensive collection augmented with some other material are not adequate to assess the real species richness.

These 167 species represent 28% of the Hungarian sawfly fauna (594 species in total) and 21% of that of the Carpathian Basin (783 species in total).

*Arge melanochra* (Gmelin, 1790) and *Athalia rosae* (Linné, 1758) are the dominant species of the Vértes Mountains. Other common species are: *Macrophya (Macrophya) albicincta* (Schrank, 1776), *Macrophya (Macrophya) montana* (Scopoli, 1763), *Tenthredo (Zonuledo) zonula* Klug, 1817 and *Tenthredopsis tarsata* (Fabricius, 1804).

The 12 rarest species are discussed below.

*Arge frivaldszkyi* (Tischbein, 1852): Known distribution in the Carpathian Basin: Budapest, Budapest: Gellérthegy, Diósd, Facskói hágó, Garamkövesd, Martonvásár, Párkány, Simontornya, Sukoró (PÁDR 1990, MOCSÁRY 1900, PILLICH 1930, ROLLER and HARIS 2008). It is known from Albania, Macedonia, Bulgaria, Greece, Romania, Slovakia and Ukraine. This specimen is deposited in the collection of the Hungarian Natural History Museum.

*Sterictiphora longicornis* Chevin, 1982: Recently described species. Known places of capture: Balatoncsicsó, Ihelnik: Pap-kő, Pernek, Széleskút, Vágluka, Vöröskő: Oroszlánkő (ROLLER and LUKÁS 1999, ROLLER 1999a, ROLLER 2004, ROLLER and HARIS 2008).

*Gilpinia socia* (Klug, 1812): Fig. 11. Gánt (the present locality) is the only known definite place of capture in the Carpathian Basin, collected by Dr. Kálmán Szeőke. Known distribution in the Carpathian Basin: at River Piesting in Austria next to Várvidék (Burgeland), Nyírség (NE. Hungary) and the Polish Tatra (NIEZABITOWSKY 1899, GYÖRFI 1957, STROBL 1895). This is the voucher specimen for Hungary (specimen(s) collected by Györfi are lost).

*Tremex magus* (Fabricius, 1787): Fig. 14. Rare Siricid wasp, known from Laxenburg from Austria, Szentgyörgy (Nature Reserve Sur), Újhely in Slovakia, furthermore from Leányfalu, Szár, Irsa and Hévíz (LUKÁS 1991, GREGOR and BATA 1940, BENES 1989, FRANZ 1982, MÓCZÁR and ZOMBORI 1973, ROLLER 2010). Rare species, known from Central and Eastern Europe only. The old specimen from the Vértes was collected in 1906 by Ferenc Wachsmann, amateur entomologist, and deposited in the Hungarian Natural History Museum, Budapest.

*Aneugmenus temporalis* (C. G. Thomson, 1871): Borló, Berlebán, Feketevág Nature Conservation Area, Járdánháza: Gyepes-völgy, Kisazar, Kőszegi hgs., Karánsebes, Nagymuzsaj, North-East Croatia, Uzsa, (PEROVIC and LEINER 1996, BÍRÓ 1885, CHYZER, 1901, MOCSÁRY 1900, ROLLER et al., 2006, ERMOLENKO 1975, ZOMBORI and ERMOLENKO 1999, MÓCZÁR 1938).





Fig. 11: *Gilpinia socia* (Klug, 1812)



Fig. 12: *Eurhadinoceraea sanguinicollis* (Mocsáry, 1880)



Fig. 13: *Periclista albipennis* (Zaddach, 1859)



Fig. 14: *Tremex magus* (Fabricius, 1787)

*Empria hungarica* (Konow, 1895): Known distribution: Arad, Budakeszi, Brebenyeshkul, Fertő tó (Lake Fertő), Hármashatárhegy, Homoródfürdő, Jósavfő, Köveskál, Krassó-Szörény County, Lébény, Mehádia, Ócsa, Párkány, Pozsony: Dévény, Simontornya, Szentersébet Tiszabogdány, Zeteváralja: Szencsed patak (FRANZ 1982, JENDEKOVÁ 1988, HARIS 1998b, LUKÁS 1992a, MOCSÁRY 1900, ROLLER 2005, PILLICH 1918, ZOMBORI 1982a, 1985c, 1999, 2002, ZOMBORI and PASCU 1998, ZOMBORI and ERMOLENKO 1999, SCOBIOLOA-PALADE 1981). Known from Hungary, Austria, Bosnia-Hercegovina, Czech Republic, Estonia, Southern Germany, France, Italy, Romania, Russia, Slovakia, Kazakhstan, Northern Caucasus, West Ciscaucasia and Ukraine (HEIDEMAA and VIITASAAARI 1999 and ACHTERBERG 2004).

*Ardis sulcata* (Cameron, 1882): Recorded from Békásmegyer, Budaörs, Dunaörs, Herencsvölgy, Ihelnik, Jeselnycica, Mehedinc, Mosóc, Szentgyörgy (Nature reserve Sur) (ROLLER 1993, 1999a, 2004, 2010, ROLLER and HARIS 2008, SCOBIOLOA-PALADE 1981, IONESCU 1974, ZOMBORI 1990a). It is widely distributed, rare species.

*Eurhadinoceraea sanguinicollis* (Mocsáry, 1880): Fig. 12. Budapest: Sváb hegy, Kerecsend: Fácános berek, Nagykovácsi, Nagyvisnyó (MOCSÁRY 1900, ZOMBORI 1990a, ROLLER and HARIS 2008). It is known only from Hungary. In all of places of capture, only one specimen was collected except at Kerecsend. One of the rarest species in Europe. This specimen was collected by Dr. Kálmán Szeőke and deposited in the Deutsches Entomologisches Institut, Müncheberg.

*Periclista albipennis* (Zaddach, 1859): Fig. 13. Known distribution in the Carpathian Basin: Párkány and Kéménd (JENDEKOVÁ 1988, PATOCKA et al., 1962). According to Pesarini and Turrisi, it is a rare species with scattered distribution in Central and South Europe (PESARINI and TURRISI 2002). New record for Hungary. Place of capture in Fig. 6.

*Periclista lineolata* (Klug, 1816): It is recorded from Balk, Cekeháza, Csiffár, Ihelnik, Ivano-Frankivska obl., Simontornya, Zirc, Ukrainian Carpaths (ERMOLENKO 1966, HRUBÍK et al. 1995, ZOMBORI 1979a, 1990a, ROLLER 2004, PILLICH 1930). Hostplants: *Quercus* spp.

*Amauronematus humeralis* (Serville, 1823): We know this species from Királymező, Prahova and Rahó (ROLLER and HARIS 2008, SCOBIOLOA-PALADE 1981). Widely distributed in Europe. New record for Hungary.

*Pristiphora biscais* (Förster, 1854): Known distribution in the Carpathian Basin: Herencsvölgy, Istvánkirályfalva, Ihelnik, Körmöcbánya, Magura, North-East Croatia, Mosóc, Pernek, Pozsonyivánka, Pozsony: Dévény, Szeben, Széleskút, Szentgyörgy (Nature Reserve Sur), Vággluka, (PEROVIC and LEINER 1996, ROLLER 1996, 1999a, 2004, 2010, ROLLER and HARIS 2008, SCOBIOLOA-PALADE 1968, 1981). Widely distributed in Europe. New record for Hungary.

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