

Second contribution to the sawflies of Belső Somogy (Hymenoptera: Symphyta)

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HARIS, A.: *Second contribution to the sawflies of Belső Somogy (Hymenoptera: Symphyta)*.

Abstract: 105 species were collected in Belső Somogy. With the present results, the known number of sawflies of this area increased up to 164. 11 rare species were captured: *Pamphilius marginatus* (Serville, 1823), *Dolerus (Cyperolerus) anticus* ssp. *anticus* (Klug, 1818), *Strongylogaster mixta* (Klug, 1817), *Strongylogaster xanthocera* (Stephens, 1835), *Claremontia uncta* (Klug, 1816), *Periclista (Periclista) albida* (Klug, 1816), *Periclista (Periclista) pubescens* (Zaddach, 1859), *Periclista (Periclista) lineolata* (Klug, 1816), *Rhadinoceraea (Rhadinoceraea) micans* (Klug, 1816), *Dineura virididorsata* (Retzius, 1783) and *Pristiphora (Gymnonychus) abbreviata* (Hartig, 1837).

Keywords: Hymenoptera, Symphyta, fauna, Belső Somogy, Hungary.

Introduction

In 2012, we published the first investigation of the sawfly fauna of Belső Somogy, titled: Sawflies of Belső Somogy (Hymenoptera: Symphyta) (HARIS, 2012). The first investigation resulted 1 new species for the Carpathian Basin and 1 species new for the Hungarian fauna and high number of rare species. Therefore after 5 years, we returned to this area to continue the investigation and have better picture on its sawfly fauna.

Material and methods

We spent 10 days in April and 5 days in May and 1-1-days in July, August, September and October with collecting in 13 sampling sites in the forest area of Belső Somogy.

In the highest collecting season, in April, the weather was extreme and 2 times broke or approached the 100 years temperature records. On 19th and 20th of April, the min-max. temperatures were 0-4 and 0-3 °C with snowfalls. In opposite, on 1st, 2nd and 3rd of April, the temperature was nearly double than the usual in this time (22-6, 23-10 and 23-8 °C).

For identification, Zhelochovtsev's work on the sawflies of the European part of the former USSR (ZHELOCHOVTSEV 1988) was consulted. We also used some recent revisions and works to make the identifications even more precise (BLANK & RITZAU 1998, HARIS 2006, KOCH 1988, ZOMBORI 2016).

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), the most recent European checklist of species (TAEGER et al. 2006) augmented by other faunistic records from the Carpathian Basin (ROLLER 1993, 1994, 1996, 1998, 1999a, b, c, d, e, 2000, b, c, 2001, 2004, 2005, 2006a, b, ROLLER & LUKÁŠ, 1999. ROLLER et al. 2006).

The higher classification of sawflies applied in this work follows the Hymenoptera part of Fauna Europaea (ACHTERBERG 20013).

The dominant collection method was the sweep netting. It was completed in May with individual collection of sawflies.

Sampling sites

1. Berzence: Alsó-Gyóta erdő (Alsó-Gyóta forest), Western side of Filagoria. Between 46°11'45.33"N, 17°13'56.51"E and 46°11'49.19"N, 17°13'45.97"E.
2. Bolhás: Hókamalom: Fishing pond, between 46°13'24.20"N, 17°16'52.59"E and 46°13'17.34"N, 17°16'51.48"E.
3. Iharosberény: Pine and birch forest between 46°20'56.64"N, 17°10'17.83"E and 46°21'4.87"N, 17°10'9.34"E.
4. Kaszó: Kanizsaberek North, between 46°19'42.33"N, 17°11'54.91"E and 46°19'46.80"N, 17°12'6.18"E.
5. Kaszó: Pine forest between 46°20'25.47"N, 17°12'0.59"E and 46°20'20.33"N, 17°11'58.39"E.
6. Nagyatád: Somogyszob Street lake, between 46°14'9.69"N, 17°21'1.58"E and 46°14'16.34"N, 17°21'7.14"E.
7. Segesd: Pine line 46°19'50.12"N, 17°20'6.27"E.
8. Somogycsicsó: Vadető between 46°18'50.94"N, 17°10'29.91"E and 46°18'48.04"N, 17°10'23.27"E.
9. Somogyszob: meadow at Segesd side of the village, between 46°17'58.70"N, 17°17'28.07"E and 46°18'3.10"N, 17°17'29.19"E.
10. Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), between 46°13'29.72"N, 17°15'5.23"E and 46°13'7.96"N, 17°15'3.13"E.
11. Szenta: Forest at Szenta-Tarany border between 46°13'5.63"N, 17°15'1.05"E and 46°12'50.62"N, 17°14'53.73"E.
12. Tarany: Kettős-tó forest between 46°13'6.30"N, 17°15'28.77"E and 46°12'48.20"N, 17°15'27.77"E
13. Vése, Csöpröndi út (Csöpröndi road), between 46°24'31.88"N, 17°18'55.08"E and 46°24'29.74"N, 17°18'40.02"E.

Results

List of species

Pamphiliidae

Pamphilius hortorum (Klug, 1808): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 28. 04. 2017, 1 female. Sporadic in the Carpathian Basin, rather rare in Hungary. Larva on *Rubus idaeus*.

Pamphilius marginatus (Serville, 1823): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 05. 2017. Rare. Hostplants: *Corylus avellana* and *Carpinus betulus*.

Pamphilius sylvaticus (Linné, 1758): Tarany: Forest at Kettős Tó, 22. 04. 2017, 1 female; Kaszó: Kanizsaberek North, 30. 04. 2017, 1 female; Vése: Csöpröndi forest, 30. 04. 2017, 1 female. One of the commonest Pamphiliidae species. Hostplants: *Sorbus aucupariae*, *Malus* spp., *Prunus* spp. and *Crataegus* spp.

Argidae

Aproceros leucopoda Takeuchi, 1939: Vése: Csöpröndi forest, 23. 04. 2017, 1 female. Frequent. Larva on *Ulmus* spp. Recently invaded Europe, known from Hungary, Poland, Slovakia, Austria, Romania, Ukraine and the Russian Far East.

Arge cyanocrocea (Forster, 1771): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 14. 04. 2017, 1 male, 28. 04. 2017, 1 male, 06. 05. 2017, 1 female; Tarany: Forest at Kettős Tó, 06. 05. 2017, 1 male; Nagyatád: Lake at Somogyszob Street, 06. 05. 2017, 1 female. Common species. Known hostplants: *Rubus idaeus* and *Sanguisorba officinalis*.

Arge melanochra (Gmelin, 1790): Bolhás: Hókamalom: Fishing pond, 27. 05. 2017, 1 female. Common species. Hostplant: *Crataegus oxyacantha*.

Xiphydriidae

Xiphydria longicollis (Geoffroy, 1785): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 08. 10. 2017, 1 male. Sporadic. Hostplants: *Acer*, *Quercus*, *Pinus* and *Betula* spp.

Cephidae

Calameuta (Calameuta) filiformis (Eversmann, 1847): Kaszó: Kanizsaberek North, 30. 04. 2017, 1 female; Nagyatád: Lake at Somogyszob Street, 06. 05. 2017, 1 female; Vése: Csöpröndi forest, 20. 05. 2017, 1 female. Generally common species. Larva lives in stems of *Arrhenatherum elatius*, *Phalaris arundinacea*, *Calamagrostis epigeios*, *Elytrigia repens* and *Phragmites communis*.

Calameuta (Calameuta) pallipes (Klug, 1803): Kaszó: Kanizsaberek North, 30. 04. 2017, 1 female. Frequent species. Hostplants: diverse Poaceae.

Cephus pygmeus (Linné, 1767): Vése: Csöpröndi forest, 20. 05. 2017, 1 male; Segesd: Pinus line, 27. 05. 2017, 1 male. Common. Insect pest of cereals and Gramineae.

Cephus runcator (Konow, 1896): Bolhás: Hókamalom: Fishing pond, 12. 05. 2017, 1 female; Vése: Csöpröndi forest, 12. 05. 2017, 1 female; Somogyszob: meadow at Segesd side of the village, 27. 05. 2017, 1 female; Nagyatád: Lake at Somogyszob Street, 27. 05. 2017, 1 female. Sporadic.

Tenthredinidae

Dolerinae

Dolerus (Cyperolerus) anticus ssp. *anticus* (Klug, 1818): Vése: Csöpröndi forest, 23. 04. 2017, 1 female. Rare. Larva on *Eleocharis palustris*.

Dolerus (Dolerus) bajulus (Serville, 1823) (*Dolerus aericeps* Thomson, 1871): Bolhás: Hókamalom: Fishing pond, 12. 06. 2017, 1 female. Frequent. Larva on *Equisetum palutris*.

Dolerus (Achaetoprion) madidus (Klug, 1818): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 08. 04. 2017, 1 female, 1 male; Sporadic. Larva on *Juncus effusus*.

Dolerus (Achaetoprion) triplicatus (Klug, 1818): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 04. 2017, 1 male, 08. 04. 2017, 2 females, 1 male, 22. 04. 2017, 1 female, 06. 05. 2017, 1 female Tarany: Forest at Kettős Tó, 22. 04. 2017, 1 female. Sporadic, locally frequent. Larva on *Juncus filiformis* and *J. effusus*.

Dolerus (Dicrodolerus) vestigialis (Klug, 1818): Kaszó: Kanizsaberek North, 23. 04. 2017, 1 male; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 05. 2017, 1 female; Segesd: Pine line, 27. 05. 2017, 1 female. Common. Hostplants: *Equisetum palustre*, *E. sylvaticum*, *E. arvense* and *E. pratense*.

Dolerus (Poodolerus) aeneus (Hartig, 1837): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 17. 04. 2017, 1 female; Vése: Csöpröndi forest, 23. 04. 2017, 1 female. Sporadic. Hostplants: Gramineae.

Dolerus (Poodolerus) fumosus (Stephens, 1835): Somogycsicsó: Vadetető, 16. 04. 2017, 3 males; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 17. 04. 2017, 1 male; Nagyatád: Lake at Somogyszob Street, 14. 04. 2017, 1 male; Vése: Csöpröndi forest, 23. 04. 2017, 1 male. Sporadic.

Dolerus (Poodolerus) gonager (Fabricius, 1781): Somogyszob: meadow at Segesd side of the village, 08. 04. 2017, 2 females; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 14. 04. 2017, 2 females, 01. 05. 2017, 2 females. Common. Larva on *Gramineae*.

Dolerus (Poodolerus) haematodes (Schrank, 1781): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 22. 04. 2017, 1 female. Frequent. Larva on *Juncus*, *Scirpus*, *Carex* and *Gramineae*.

Dolerus (Poodolerus) niger (Linné, 1767): Tarany: Forest at Kettős Tó, 14. 04. 2017, 1 female; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 05. 2017, 1 female. Sporadic. Larva on *Gramineae*.

Dolerus (Poodolerus) migratus (O. F. Müller, 1776): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 04. 2017, 1 female, 08. 04. 2017, 2 females, 14. 04. 2017, 2 males, 17. 04. 2017, 1 male, 22. 04. 2017, 1 male, 01. 05. 2017, 2 females; Somogyszob: meadow at Segesd side of the village, 08. 04. 2017, 1 female, 1 male; Kaszó: Kanizsaberek North, 23. 04. 2017, 2 males; Vése: Csöpröndi forest, 23. 04. 2017, 1 male, 30. 04. 2017, 2 females. Common. Larva on *Gramineae* including cereals.

Dolerus (Poodolerus) picipes (Klug, 1818): Kaszó: Kanizsaberek North, 30. 04. 2017, 2 females; Bolhás: Hókamalom: Fishing pond, 06. 05. 2017, 5 females. Frequent. Larva on *Gramineae*.

Dolerus (Poodolerus) puncticollis (C. G. Thomson, 1871): Somogyszob: meadow at Segesd side of the village, 08. 04. 2017, 1 female; Kaszó: Pine forest, 23. 04. 2017, 1 female. Common. Larva on *Gramineae* including cereals.

Dolerus (Poodolerus) sanguinicollis (Klug, 1818): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 05. 2017, 1 female. Sporadic.

Selandriinae

Aneugmenus coronatus (Klug, 1818): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 05. 2017, 1 female; Tarany: Forest at Kettős Tó, 06. 05. 2017, 1 female. Sporadic. Larva on *Dryopteris filix-mas*, *Aspidium* sp., *Athyrium filix-femina* and *Pteridium aquilinum*.

Nesoselandria morio (Fabricius, 1781): Tarany: Forest at Kettős Tó, 17. 04. 2017, 1 female; Vése: Csöpröndi forest, 20. 05. 2017, 1 female; Nagyatád: Lake at Somogyszob Street, 14. 04. 2017, 1 male, 20. 05. 2017, 3 males. Frequent. Hostplants: *Brachytecium reflexum*, *Ceratodon purpureus*, *Chenopodium album*, *Dicranum scoparium*, *Fragaria vesca*, *Hedwigia ciliata*, *Myosotis arvensis*, *Plagiomnium cuspidatum*, *Plagiothecium denticulatum*, *Polygonum aviculare*, *Polytrichum commune*, *Pseudobryum cinclidioides*, *Sanionia uncinata*, *Stellaria media*, *Veronica chamaedrys* and *V. officinalis*.

Selandria serva (Fabricius, 1793): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 08. 04. 2017, 1 male, 14. 04. 2017, 1 female, 1 male; Bolhás: Hókamalom: Fishing pond, 12. 06. 2017, 1 male. Frequent. Host plants: *Poaceae*, *Carex* spp. and *Juncus* spp.

Strongylogaster multifasciata (Geoffroy, 1985): Tarany: Forest at Kettős Tó, 22. 04. 2017, 1 female, 01. 05. 2017, 3 females, 06. 05. 2017, 3 females. Frequent. Hostplants: *Dryopteris* sp., *Mattuccia struthiopteris*, *Aspidium* sp., *Polystichum* sp. and *Pteridium aquilinum*.

Strongylogaster mixta (Klug, 1817): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 14. 04. 2017, 2 males, 22. 04. 2017, 1 female, 1 male. Rare. Hostplants: *Athyrium filix-femina*, *Pteridium aquilinum* and *Aspidium* sp.

Strongylogaster xanthocera (Stephens, 1835): Tarany: Forest at Kettős Tó, 17. 04. 2017, 1 female. Rare. Hostplant: *Pteridium aquilinum*.

Allantinae

Allantus (Emphytus) cinctus (Linné, 1758): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 17. 04. 2017, 1 male. Frequent. Hostplants: *Rosa* spp.

Ametastegia (Ametastegia) equiseti (Fallén, 1808): Somogyszob: meadow at Segesd side of the village, 08. 04. 2017, 1 male; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 14. 04. 2017, 1 male, 06. 05. 2017, 1 male; Vése: Csöpröndi forest, 16. 04. 2017, 1 male; Tarany: Forest at Kettős Tó, 01. 05. 2017, 1 female, 12. 06. 2017, 1 male; Segesd: Pine line, 27. 05. 2017, 1 male. Frequent. Larva on *Chenopodium album*, *Lythrum salicaria*, *Polygonum persicaria* and *Rumex acetosella*.

Ametastegia (Protemphytus) pallipes (Spinola, 1808): Tarany: Forest at Kettős Tó, 17. 04. 2017, 1 female. Frequent. Larva on *Viola* spp.

Ametastegia (Protemphytus) tener (Fallén, 1808): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 04. 2017, 1 female. Frequent. Larva on *Filipendula*, *Cirsium* and *Rumex* spp.

Athalia bicolor (Serville, 1823): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 28. 04. 2017, 1 female; Vése: Csöpröndi forest, 30. 04. 2017, 1 female, 20. 05. 2017, 1 female, 2 males, 27. 05. 2017, 2 females; Tarany: Forest at Kettős Tó, 06. 05. 2017, 1 male; Nagyatád: Lake at Somogyszob Street, 06. 05. 2017, 1 female, 12. 05. 2017, 1 female. Frequent. Hostplant unknown.

Athalia circularis (Klug, 1815): Tarany: Forest at Kettős Tó, 14. 04. 2017, 1 male; Bolhás: Hókamalom: Fishing pond, 14. 04. 2017, 1 female; Vése: Csöpröndi forest, 23. 04. 2017, 2 males, 20. 05. 2017, 1 male, 27. 05. 2017, 1 male. 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): Somogyszob: meadow at Segesd side of the village, 08. 04. 2017, 1 female; Vése: Csöpröndi forest, 23. 04. 2017, 1 female; 3 males, 30. 04. 2017, 2 males, 12. 05. 2017, 1 male; Kaszó: Kanizsaberek North, 30. 04. 2017, 2 females; Tarany: Forest at Kettős Tó, 01. 05. 2017, 1 male, 06. 05. 2017, 1 male, 12. 06. 2017, 1 female; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 05. 2017, 1 male; Common. Larva on *Misopates orontinum*, *Antirrhinum majus*, *Ajuga reptans*, *Teucrium scorodonia* and *Plantago* spp.

Athalia liberta (Klug, 1815): Somogycsicsó: Vadetető, 16. 04. 2017, 1 male; Vése: Csöpröndi forest, 23. 04. 2017, 1 male. Frequent. Feeding on *Alliaria petiolata*, *Arabidopsis thaliana*, *Cardamine hirsuta* and *Sisymbrium officinale*.

Athalia rosae (Linné, 1758): Vése: Csöpröndi forest, 23. 04. 2017, 1 female, 1 male; Bolhás: Hókamalom: Fishing pond, 12. 05. 2017, 1 female; Nagyatád: Lake at Somogyszob Street, 20. 05. 2017, 2 females; Szenta: Felső-Gyóta erdő, 01. 05. 2017, 1 female. 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 liturata (Gmelin, 1790): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 04. 2017, 1 male, 14. 04. 2017, 1 female, 1 male, 17. 04. 2017, 2 males; Kaszó: Kanizsaberek North, 09. 04. 2017, 1 male, 16. 04. 2017, 1 male; Bolhás: Hókamalom: Fishing pond, 14. 04. 2017, 1 male; Vése: Csöpröndi forest, 16. 04. 2017, 1 male. Frequent. Hostplants: *Fragaria* and *Geum* spp.

Empria parvula (Konow, 1892): Kaszó: Kanizsaberek North, 16. 04. 2017, 1 male; Tarany: Forest at Kettős Tó, 17. 04. 2017, 1 male. Sporadic.

Empria sexpunctata (Serville, 1823) (syn.: *Empria klugii* (Stephens, 1835)): Kaszó: Kanizsaberek North, 09. 04. 2017, 1 male, 16. 04. 2017, 1 male, 30. 04. 2017, 1 female; Bolhás: Hókamalom: Fishing pond, 14. 04. 2017, 1 male; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 17. 04. 2017, 3 males, 28. 04. 2017, 2 males, 28. 04. 2017, 1 female, 2 males, 01. 05. 2017, 1 male, 06. 05. 2017, 1 male; Tarany: Forest at Kettős Tó, 17. 04. 2017, 2 females, 1 male, 22. 04. 2017, 2 males, 29. 04. 2017, 1 female, 01. 05. 2017, 1 female; Vése: Csöpröndi forest, 16. 04. 2017, 1 female. Frequent. Larva on *Geum* spp.

Empria tridens (Konow, 1896): Berzence: Alsó-Gyóta erdő (Alsó-Gyóta forest): Western side of Filagoria, 01. 04. 2017, 1 female; Kaszó: Kanizsaberek North, 08. 04. 2017, 1 female, 09. 04. 2017, 1 male; Tarany: Forest at Kettős Tó, 17. 04. 2017, 1 female, 1 male. Frequent. Hostplants: *Geum* spp. and *Rubus idaeus*.

Eriocampa ovata (Linné, 1761): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 05. 2017, 1 female. Frequent on *Alnus glutinosa* and *A. incana*.

Eriocampa umbratica (Klug, 1816): Tarany: Forest at Kettős Tó, 17. 04. 2017, 1 female, 22. 04. 2017, 1 female; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 06. 05. 2017, 1 female; Bolhás: Hókamalom: Fishing pond, 06. 05. 2017, 1 female. Frequent on *Alnus glutinosa* and *A. incana*.

Monostegia abdominalis (Fabricius, 1798): Tarany: Forest at Kettős Tó, 29. 04. 2017, 1 female. Sporadic. Larva on *Lysimachia* spp., *Anagallis* spp. and *Glaux maritima*.

Taxonus agrorum (Fallén, 1808): Tarany: Forest at Kettős Tó, 14. 04. 2017, 1 male; Vése: Csöpröndi forest, 23. 04. 2017, 1 female. Frequent. Hostplants: *Rubus idaeus* and *R. caesius*.

Heterarthrinae

Fenusia (Kaliofenusa) ulmi (Sundevall, 1847): Tarany: Forest at Kettős Tó, 06. 05. 2017, 1 female. Rare. Hostplant: *Ulmus glabra*.

Blennocampinae

Claremontia alternipes (Klug, 1816): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 04. 2017, 1 female, 08. 04. 2017, 1 male, 14. 04. 2017, 1 female, 28. 04. 2017, 2 females; Tarany: Forest at Kettős Tó, 17. 04. 2017, 2 females, 22. 04. 2017, 2 females, 29. 04. 2017, 1 male, 01. 05. 2017, 1 male; Vése: Csöpröndi forest, 30. 04. 2017, 1 female; Szenta: Forest at Szenta-Tarany border, 01. 05. 2017, 1 male. Sporadic. Hostplant: *Rubus idaeus*.

Claremontia puncticeps (Konow, 1886): Tarany: Forest at Kettős Tó, 01. 05. 2017, 2 females. Sporadic. Hostplants: *Fragaria* spp., *Sanguisorba* spp. and *Potentilla reptans*.

Claremontia waldheimii (Gimmerthal, 1847): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 14. 04. 2017, 1 male; Tarany: Forest at Kettős Tó, 29. 04. 2017, 1 female. Frequent. Hostplant: *Geum urbanum*.

Claremontia uncta (Klug, 1816): Tarany: Forest at Kettős Tó, 17. 04. 2017, 1 male, 22. 04. 2017, 1 male, 29. 04. 2017, 1 female, 12. 05. 2017, 1 male. Rare. Hostplant: *Alchemilla* spp.

Eutomostethus ephippium (Panzer, 1798): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 14. 04. 2017, 1 female, 28. 04. 2017, 3 males, 01. 05. 2017, 2 males, 2 females, 06. 05. 2017, 5 males, 22. 04. 2017, 1 male, 20. 05. 2017, 1 male; Nagyatád: Lake at Somogyszob Street, 14. 04. 2017, 1 female, 14. 04. 2017, 1 male; Kaszó: Pine forest, 16. 04. 2017, 1 female; Tarany: Forest at Kettős Tó, 17. 04. 2017, 2 females, 1 male, 29. 04. 2017, 1 female, 7 males, 12. 05. 2017, 1 female, 01. 05. 2017, 3 males, 2 females, 22. 04. 2017, 4 males, 14.

04. 2017, 1 male, 06. 05. 2017, 7 males, 1 female, 12. 05. 2017, 7 males, 4 female; Vése: Csöpröndi forest, 30. 04. 2017, 1 female, 2 males, 23. 04. 2017, 4 males, 12. 05. 2017, 3 males, 20. 05. 2017, 1 male, 27. 05. 2017, 2 females, 1 male; Kaszó: Kanizsaberek North, 09. 04. 2017, 2 males, 30. 04. 2017, 1 male, 16. 04. 2017, 2 males; Iharosberény: Pine and birch forest, 30. 04. 2017, 1 male; Somogycsicsó: Vadetető, 16. 04. 2017, 2 males; Somogyszob: meadow at Segesd side of the village, 08. 04. 2017, 1 male; Bolhás: Hókamalom: Fishing pond, 12. 05. 2017, 1 male. Common species. Larva on *Graminae*.

Eutomostethus gagathinus (Klug, 1816): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 22. 04. 2017, 1 male, 01. 05. 2017, 3 males, 06. 05. 2017, 1 male; Vése: Csöpröndi forest, 30. 04. 2017, 1 male, 20. 05. 2017, 1 male; Tarany: Forest at Kettős Tó, 12. 05. 2017, 1 female. Sporadic.

Eutomostethus luteiventris (Klug, 1816): Berzence: Alsó-Gyóta erdő (Alsó-Gyóta forest): Western side of Filagoria, 01. 04. 2017, 3 females; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 04. 2017, 1 female, 08. 04. 2017, 11 females, 14. 04. 2017, 18 females, 17. 04. 2017, 5 females, 22. 04. 2017, 4 females, 17. 04. 2017, 5 females, 22. 04. 2017, 4 females, 28. 04. 2017, 3 females, 01. 05. 2017, 10 females, 06. 05. 2017, 1 female; Tarany: Forest at Kettős Tó, 14. 04. 2017, 2 females, 12. 05. 2017, 1 female, 01. 05. 2017, 5 females; Vése: Csöpröndi forest, 23. 04. 2017, 1 female, 23. 04. 2017, 1 female, 30. 04. 2017, 2 females; Kaszó: Kanizsaberek North, 30. 04. 2017, 1 female; Iharosberény: Pine and birch forest, 30. 04. 2017, 1 female. Locally frequent, one of the dominant species of Belső Somogy. Larva on *Juncus effusus*.

Eutomostethus punctatus (Konow, 1887): Tarany: Forest at Kettős Tó, 01. 05. 2017, 8 males, 06. 05. 2017, 7 males, 12. 05. 2017, 3 females. Sporadic species, relatively frequent in Belső Somogy. Hostplant: *Carex paniculata*.

Monophadnoides ruficruris (Brulle, 1832): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 04. 2017, 1 male, 17. 04. 2017, 1 female, 22. 04. 2017, 2 males, 28. 04. 2017, 1 females; Somogyszob: meadow at Segesd side of the village, 08. 04. 2017, 5 females; Vése: Csöpröndi forest, 16. 04. 2017, 1 female; Tarany: Forest at Kettős Tó, 22. 04. 2017, 1 female; Kaszó: Kanizsaberek North, 23. 04. 2017, 1 male; Kaszó: Pine forest, 23. 04. 2017, 1 male. Sporadic, but frequent in Belső Somogy. Hostplant: *Rubus idaeus*.

Monophadnus monticola (Hartig, 1837): Nagyatád: Lake at Somogyszob Street, 14. 04. 2017, 1 female. Frequent. Larva on *Helleborus* spp. and *Ranunculus acris*.

Monophadnus pallescens (Gmelin, 1790): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 14. 04. 2017, 1 female; Vése: Csöpröndi forest, 23. 04. 2017, 1 female. Common. Hostplants: *Ranunculus acris*, *R. repens*, *R. lanuginosus* and *Anemone nemorosa*.

Periclista (Periclista) albida (Klug, 1816): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 08. 04. 2017, 1 female. Rare. Hostplant: *Quercus* spp.

Periclista (Periclista) albiventris (Klug, 1816): Tarany: Forest at Kettős Tó, 29. 04. 2017, 1 female, 01. 05. 2017, 1 female. Sporadic.

Periclista (Periclista) pubescens (Zaddach, 1859): Tarany: Forest at Kettős Tó, 22. 04. 2017, 1 female. Rare. Larva on *Quercus* spp.

Periclista (Periclista) lineolata (Klug, 1816): Vése: Csöpröndi forest, 16. 04. 2017, 1 female. Rare. Larva on *Quercus* spp.

Phymatocera aterrima (Klug, 1816): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 22. 04. 2017, 1 male. Frequent. Hostplants: *Polygonatum* spp.

Rhadinoceraea (Rhadinoceraea) micans (Klug, 1816): Tarany: Forest at Kettős Tó, 01. 05. 2017, 1 male. Sporadic species but rare in Hungary. Reported only from Kőszeg, Simontornya, Budapest and Nadap. Larva on *Iris laevigatus*, *Iris pseudacorus* and *Iris spuria*.

Rhadinoceraea (Rhadinoceraea) reitteri (Konow, 1890): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 14. 04. 2017, 1 female. Frequent. Larva on *Iris pumila*, *I. germanica* and *I. sambucina*.

Stethomostus fuliginosus (Schrank, 1781): Vése: Csöpröndi forest, 30. 04. 2017, 1 female; Bolhás: Hókamalom: Fishing pond, 06. 05. 2017, 1 female. Frequent. Larva on *Ranunculus acris*, *R. repens* and *R. sceleratus*.

Tenthredininae

Aglaostigma (Astochus) aucupariae (Klug, 1817): Somogyszob: meadow at Segesd side of the village, 08. 04. 2017, 1 female; Tarany: Forest at Kettős Tó, 14. 04. 2017, 1 male; Nagyatád: Lake at Somogyszob Street, 14. 04. 2017, 1 female; Kaszó: Kanizsaberek North, 30. 04. 2017, 1 female, Bolhás: Hókamalom: Fishing pond, 06. 05. 2017, 1 female. Common. Larva on *Galium mollugo* and *G. boreale*.

Aglaostigma (Astochus) fulvipes (Scopoli, 1763): Nagyatád: Lake at Somogyszob Street, 14. 04. 2017, 1 female, 1 male; Kaszó: Kanizsaberek North, 23. 04. 2017, 1 male, 30. 04. 2017, 1 female. Common. Larva on *Galium mollugo* and *G. verum*.

Macrophyia (Macrophyia) albicincta (Schrank, 1776): Kaszó: Kanizsaberek North, 30. 04. 2017, 1 female; Vése: Csöpröndi forest, 30. 04. 2017, 1 female; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 05. 2017, 1 male. Common. Hostplants: *Sambucus ebulus*, *S. nigra*, *S. racemosa*, *Valeriana officinalis* and *Viburnum opulus*.

Macrophyia (Macrophyia) annulata (Geoffroy, 1785): Somogyszob: meadow at Segesd side of the village, 27. 05. 2017, 1 male. Frequent. Larva on *Potentilla reptans*, *Origanum vulgare*, *Euphorbia*, *Rosa*, *Rubus* and *Sambucus* spp.

Macrophyia (Macrophyia) duodecimpunctata (Linné, 1758): Tarany: Forest at Kettős Tó, 29. 04. 2017, 2 males, 06. 05. 2017, 1 female, 12. 05. 2017, 5 females, 5 males; Vése: Csöpröndi forest, 30. 04. 2017, 1 male; Bolhás: Hókamalom: Fishing pond, 01. 05. 2017, 1 male, 06. 05. 2017, 1 female, 27. 05. 2017, 2 females; Nagyatád: Lake at Somogyszob Street, 06. 05. 2017, 1 female; Somogyszob: meadow at Segesd side of the village, 27. 05. 2017, 1 male. Common. Hostplants: *Gramineae*, *Cyperaceae* and *Carex* spp.

Macrophyia (Macrophyia) montana (Scopoli, 1763): Bolhás: Hókamalom: Fishing pond, 12. 05. 2017, 1 female, 20. 05. 2017, 2 females, 4 males, 27. 05. 2017, 1 female; Nagyatád: Lake at Somogyszob Street, 12. 05. 2017, 1 female, 20. 05. 2017, 1 male; Vése: Csöpröndi forest, 27. 05. 2017, 5 females, 1 male. Common. Hostplant: *Rubus caesius*.

Macrophyia (Macrophyia) postica (Brullé, 1832): Bolhás: Hókamalom: Fishing pond, 27. 05. 2017, 1 female. Frequent. Hostplant unknown.

Macrophyia (Macrophyia) rufipes (Linné, 1758): Nagyatád: Lake at Somogyszob Street, 20. 05. 2017, 1 female, 1 male. Larva on *Agrimonia eupatoria* and *Vitis vinifera*.

Macrophyia (Macrophyia) sanguinolenta (Gmelin, 1790): Bolhás: Hókamalom: Fishing pond, 12. 05. 2017, 1 female; 27. 05. 2017, 1 male. Frequent. Larva on *Galenopsis*, *Senecio* and *Veronica*.

Pachyprotasis rapae (Linné, 1767): Nagyatád: Lake at Somogyszob Street, 14. 04. 2017, 1 female; Somogycsicső: Vadetető, 16. 04. 2017, 1 male; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 22. 04. 2017, 1 male; Kaszó: Kanizsaberek North, 23. 04. 2017, 1 male, 30. 04. 2017, 1 male; Tarany: Forest at Kettős Tó, 29. 04. 2017, 1 male, 01. 05. 2017, 1 female, 06. 05. 2017, 1 male; Vése: Csöpröndi forest, 30. 04. 2017, 2 females. Common. Hostplants: *Solanum tuberosum*, *Pedicularis palustris*, *Angelica sylvestris*, *Veronica beccabunga*, *Betonica officinalis*, *Corylus avellana*, *Salix caprea*, *Fraxinus excelsior*, *Tussilago farfara*, *Symporicarpos albus*, *Scrophularia*, *Solidago*, *Verbascum*, *Origanum*, *Atropa*, *Sarrothamnus*, *Senecio*, *Polygonum*, *Aspidium*, *Epilobium*, *Hypericum*, *Galeopsis*, *Mentha*, *Polystichum*, *Plantago*, *Quercus* and *Stachys* spp.

Pachyprotasis antennata (Klug, 1817): Tarany: Forest at Kettős Tó, 29. 04. 2017, 2 females. Sporadic. Larva on *Filipendula ulmaria* and *Fraxinus* spp.

Perineura rubi (Panzer, 1805): Tarany: Forest at Kettős Tó, 14. 04. 2017, 1 male. Sporadic. Hostplant unknown.

Rhogogaster scalaris (Klug, 1817): Vése: Csöpröndi forest, 20. 05. 2017, 1 female. Frequent. Hostplants: *Pteridium aquilinum*, *Alnus glutinosa*, *Circaea*, *Prunus* spp., *Ranunculus* spp., *Rosa* spp., *Salix alba*, *S. purpurea*, *Stellaria* spp., *Filipendula ulmaria*, *Populus tremula*, *Padus* spp., *Betula* spp., *Corylus avellana* and *Sorbus* spp.

Sciapteryx consobrina (Klug, 1816): Nagyatád: Somogyszobi Street: Lake, 01. 04. 2017, 2 females, 14. 04. 2017, 1 female; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 14. 04. 2017, 1 female. Common. Larval hosts: *Adoxa* spp., *Anemone* spp. and *Ranunculus ficaria*.

Tenthredo (Endotethryx) campestris (Linné, 1758): Szenta: Felső-Gyóta erdő, 01. 05. 2017, 1 male; Bolhás: Hókamalom: Fishing pond, 01. 05. 2017, 1 male, 20. 05. 2017, 1 female. Frequent. Hostplant: *Aegopodium podagraria*.

Tenthredo (Tenthredella) atra (Linné, 1758): Vése: Csöpröndi forest, 30. 04. 2017, 1 female. Frequent. Larval hosts: *Lamium*, *Mentha*, *Plantago*, *Vicia*, *Ranunculus*, *Scabiosa*, *Brassica* and *Solanum* spp.

Tenthredo (Tenthredella) solitaria (Scopoli, 1763): Nagyatád: Lake at Somogyszob Street, 06. 05. 2017, 1 female, 1 male. Sporadic in Hungary. Larva on *Euphorbia cyparissius*.

Tenthredo (Zonuledo) distinguenda (Stein, 1885): Nagyatád: Lake at Somogyszob Street, 12. 05. 2017, 1 female. Sporadic. Hostplant unknown.

Tenthredopsis ornata (Serville, 1823) (syn. *Tenthredopsis excisa* (C. G. Thomson, 1870)): Kaszó: Kanizsaberek North, 30. 04. 2017, 3 female; Iharosberény: Pine and birch forest, 30. 04. 2017, 1 female. Frequent. Larva on *Brachypodium sylvaticum*.

Tenthredopsis nassata (Linné, 1767): Kaszó: Kanizsaberek North, 23. 04. 2017, 1 male; Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 06. 05. 2017, 1 male. Common. Hostplants: *Dactylis glomerata*, *Deschampsia cespitosa*, *D. calmagrostis*, *Flexuosa* spp., *Holcus* spp., *Lolium perenne*, *Agropyron* spp., *Carex* spp., *Anthriscus silvestris* and *Artemisia* spp.

Tenthredopsis stigma (Fabricius, 1798): Kaszó: Pine forest, 23. 04. 2017, 1 female; Nagyatád: Lake at Somogyszob Street, 06. 05. 2017, 2 females, 12. 05. 2017, 2 females; Szenta: Forest at Szenta-Tarany border, 20. 05. 2017, 1 female, 1 male. Frequent. Hostplant: *Triticum intermedium*.

Nematinae

Cladius (Priophorus) brullei (Dahlbom, 1835): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 22. 04. 2017, 1 male; Tarany: Forest at Kettős Tó, 22. 04. 2017, 3 females. Frequent. Hostplant: *Rubus* spp.

Cladius (Priophorus) compressicornis (Fabricius, 1804) (syn. *Priophorus pallipes* (Serville, 1823)): Kaszó: Kanizsaberek North, 16. 04. 2017, 1 female; Vése: Csöpröndi forest, 30. 04. 2017, 1 female. Frequent pest. Hostplants: *Betula*, *Cotoneaster*, *Prunus*, *Rubus*, *Sorbus*, *Fragaria*, *Crataegus*, *Corylus* and *Rosa* spp.

Cladius (Cladius) pectinicornis (Geoffroy, 1785): Tarany: Forest at Kettős Tó, 14. 04. 2017, 1 female. Common. Hostpalnts: *Rosa*, *Fragaria*, *Poterium sanguisorba*, *Filipendula*, *Lamiastrum galeobdolon*.

Dineura virididorsata (Retzius, 1783): Kaszó: Kanizsaberek North, 16. 04. 2017, 1 female, 23. 04. 2017, 2 females. Rare. Larva on *Betula* spp.

Hoplocampa crataegi (Klug, 1816): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 28. 04. 2017, 1 female. Frequent. Hostplants: *Crataegus* spp.

Mesoneura opaca (Fabricius, 1775): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 17. 04. 2017, 1 female, 22. 04. 2017, 1 female; Tarany: Forest at Kettős Tó, 29. 04. 2017, 2 females. Sporadic. Hostplant: *Quercus robur*.

Nematus (Nematus) lucidus (Panzer, 1801): Kaszó: Kanizsaberek North, 16. 04. 2017, 1 male. Frequent. Larva on *Crataegus* spp., *Prunus spinosa* and occasionally on cultivated *Prunus*.

Nematus (Pteronidea) myosotidis (Fabricius, 1804): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 14. 04. 2017, 1 male, 17. 04. 2017, 1 male; Nagyatád: Lake at Somogyszob Street, 14. 04. 2017, 1 female. Common. Larval hosts: *Onobrychis* and *Trifolium* spp.

Nematus (Pteronidea) tibialis (Newman, 1837): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 01. 05. 2017, 1 female. Frequent. Larva on *Robinia pseudacacia*.

Nematus (Pteronidea) viridissimus (Möller, 1882): Tarany: Forest at Kettős Tó, 29. 04. 2017, 1 female. Sporadic. Hostplant: *Alnus* spp.

Pachynematus (Pachynematus) obductus (Hartig, 1837) (currently *Euura obducta* (Hartig, 1837)?: Vése: Csöpröndi forest, 30. 04. 2017, 1 female. Recently genus *Pachynematus* synonymised under *Euura*, therefore its valid name shall be *Euura obductus* Htg. or more likely *Euura obducta* Htg. depending on the next edition of the Symphyta Catalogue. Sporadic. Larva on *Gramineae* (*Poa*, *Festuca* spp.) and *Carex*.

Pachynematus (Pachynematus) vagus (Fabricius, 1781) (currently *Euura vaga* (Fabricius, 1781)?: Tarany: Forest at Kettős Tó, 14. 04. 2017, 1 female, 22. 04. 2017, 1 female; Kaszó: Kanizsaberek North, 30. 04. 2017, 1 female. Sporadic. Larva on *Carex* spp.

Pristiphora (Gymnonychus) abbreviata (Hartig, 1837): Kaszó: Pine forest, 16. 04. 2017, 1 female. Rare. Hostplant: *Pyrus* and *Malus* spp.

Pristiphora (Lygaeotus) pallidiventris (Fallén, 1808): Tarany: Forest at Kettős Tó, 06. 05. 2017, 1 female. Frequent. Larva on *Geum*, *Potentilla*, *Rubus* and *Filipendula* spp.

Pristiphora (Micronematus) monogyniae (Hartig, 1840): Vése: Csöpröndi forest, 23. 04. 2017, 1 female. Sporadic. Hostplant: *Prunus spinosa* occasionally *P. domestica*.

Pristiphora (Pristiphora) armata (C. G. Thomson, 1863): Szenta: Felső-Gyóta erdő (Felső-Gyóta forest), 06. 05. 2017, 1 male. Frequent. Larva on *Crataegus* spp.

Discussion

747 specimen of 105 species were collected in 13 sites in the investigated area.

The following 33 species are recorded firstly from Belső Somogy: *Pamphilus marginatus* (Serville, 1823); *Cephus runcator* Konow, 1896; *Dolerus (Cyperolerus) anticus* ssp. *anticus* (Klug, 1818); *Dolerus (Dolerus) bajulus* Serville, 1823; *Dolerus (Poodolerus) fumosus* Stephens, 1835; *Dolerus (Poodolerus) haematodes* (Schrank, 1781); *Strongylogaster mixta* (Klug, 1817); *Strongylogaster xanthocera* (Stephens, 1835); *Ametastegia (Protemphytus) pallipes* (Spinola, 1808); *Ametastegia (Protemphytus) tener* (Fallén, 1808); *Empria parvula* (Konow, 1892); *Monostegia abdominalis* (Fabricius, 1798); *Fenusia (Kaliosfenusa) ulmi* Sundevall, 1847; *Claremontia puncticeps* (Konow, 1886); *Claremontia uncta* (Klug, 1816); *Monophadnus monticola* (Hartig, 1837); *Periclistista (Periclistista) albida* (Klug, 1816); *Periclistista (Periclistista) albiventris* (Klug, 1816); *Periclistista (Periclistista) pubescens* (Zaddach, 1859); *Periclistista (Periclistista) lineolata* (Klug, 1816); *Rhadinoceraea (Rhadinoceraea) reitteri* Konow, 1890; *Macrophyia (Macrophyia) rufipes* (Linné, 1758); *Macrophyia (Macrophyia) sanguinolenta* (Gmelin, 1790); *Pachyprotasis antennata* (Klug, 1817); *Rhogogaster scalaris* (Klug, 1817);

Tenthredopsis nassata (Linné, 1767); *Cladius (Priophorus) brullei* (Dahlbom, 1835); *Cladius (Cladius) pectinicornis* (Geoffroy, 1785); *Dineura virididorsata* (Retzius, 1783); *Nematus (Nematus) lucidus* (Panzer, 1801); *Nematus (Pteronidea) viridissimus* (Möller, 1882); *Pachynematus (Pachynematus) obductus* (Hartig, 1837) (*Euura obducta* (Hartig, 1837)) and *Pristiphora (Gymnonychus) abbreviata* (Hartig, 1837).

Dominant species

Eutomostethus ephippium (Panzer, 1798) with 83 collected specimens, and *Eutomostethus luteiventris* (Klug, 1816) with 79 collected specimens are the dominant species of the region.

This year, we collected only 4 *Eriocampa umbratica* (Klug, 1816) specimens due to the local gradation of its competitor, *Agelastica alni* (Linné, 1758).

Rare species

Pamphilus marginatus (Serville, 1823): Known in the Carpathian Basin from the following sites: Devínska Kobyla (Pozsony: Dévény), Resinár (Rasinari), Budapest, Aggtelek, Perkupa, Szin, Mecsek hgs.: Takányó-völgy and: Růžd'ka.

Dolerus (Cyperolerus) anticus ssp. *anticus* (Klug, 1818): Its distribution in the Carpathian Basin: Ban. Štiavnica-Bot. Gard. (Selmecbánya), Viničky (Szöllóske), Szeged, Budapest, Kalocsa, Kecskemét, Szeged, Dunaörs, Dömsöd, Kelebia, Szabadszállás, Miskolc, Nagyvárad, Nagyfalu (Nusfalau), Ulma, Mons Alion, Arad, Subcarpathia, NE Croatia, Vukán, Pomáz, Niedzica, Lastonia. More than 60% of the specimens listed above, were collected in the 19th century.

Strongylogaster mixta (Klug, 1817): Fig. 2. From Hungary, this species is known only from Miskolc. Other places of capture from the Carpathian Basin: Javorina (Balázsvágás), Poľana Mt. (Polánahegy), Nagyszeben (Hermannstadt, Sibiu), Balánbányai hgs., Retyezát (Mt. Retezat), Tiszabogdány, Brebenyeszkul (Bogdan), Croatian Karst, Trzy Korony-Pieniny, Frenštát, Trojáčka, Tatranská Lomnica (Tátralomnic) – Štart, Sekule (Székelyfalva), Vysoké Tatry: Zadná Javorová dolina (Magas Tátra: Hátsó Jávor völgy), Királymező (Ust-Tschorna).

Strongylogaster xanthocera (Stephens, 1835): From Hungary, it is known only from Darány and Fenyőfő. Out of Hungary from Mošovce (Mosóc), Ihelník, Magura, Nagyszeben (Sibiu) and Bálványosfüred (Baile Bálványos).

Claremontia uncta (Klug, 1816): From Hungary, it is recorded only from Aggtelek, Dobogókő and Ócsa. In the higher mountainous part of the Carpathian Basin, it is more widely distributed: Hriňová (Herenecsvölgy), Javorina (Balázsvágás), Limbach (Limpak), Mošovce (Mosóc), Štefanová (Istvánkirályfalva), Ihelník, Lúka (Vágluka), Bystrá (Szentiván)-sedlo Javorie (Jávori hágó), Rovná hoľa, Tiszabogdány, Brebenyeszkul (Bogdan), Trebusafejérpatak (Dilove), Pieniny Mts, Nový Jičín, Tatranská Lomnica (Tátralomnic) - Štart and Retyezát (Mt. Retezat).

Periclista (Periclista) albida (Klug, 1816): From Hungary, it is reported from Budapest, Aggtelek, Dobogókő and Nadap. Other places of capture in the Carpathian Basin: Lučenec (Losonec), Ihelník, Kňaží vrch (Pap kő), Buhusi, Bákó (Bacau), Klastromalja (Podmonastyr), Zakarpatskaya oblast, Hodslavice and Šaštín (Sasvár). We have also indefinite records from NE Croatia and Galicia.

Periclista (Periclista) pubescens (Zaddach, 1859): Only one specimen was collected more than 120 years in Hungary, in Budapest. It is also rare in the Carpathian Basin: Čaradice (Csárad), Bojná (Nyitrabajna), Pata, Štúrovo (Párkány), Beluja (Belugya), Sitno (Szitnya), Kňaží vrch (Pap kő), Nagyszeben (Hermannstadt, Sibiu), Resica, Arad, Bílé Karpaty PLA: NNR Čeretoryje and Borosjenő (Ineu).

Periclista (Periclista) lineolata (Klug, 1816): In Hungary, it is known from Simontornya, Zirc, Cekeháza and Balk. It is also known from Čifáre (Csiffár), Ihelník, Ivano-Frankivska obl., Ukrainian Carpathians, Podčetrtek and Bílé Karpaty PLA: NNR Čeretoryje, NR Hute.

Rhadinoceraea (Rhadinoceraea) micans (Klug, 1816): Captured again in this area. We discussed its distribution in Haris, 2012.

Dineura virididorsata (Retzius, 1783): Fig. 3. Extremely rare in the Carpathian Basin. It is known only from Bátoraligeti láp and Nagyszeben (Sibiu).

Pristiphora (Gymnonychus) abbreviata (Hartig, 1837): Although, its hostplants (*Pyrus* and *Malus* spp.) are common, this species is still rare. Known places of capture are Újszentmargita and Nagykovácsi. It was also reported from Brebenyeszkul, Ukraine.

Evaluation of the sampling sites

The investigated area is clearly separated into core and marginal areas.

The core area involves the sand-dunes consist of acidic sand. In some spots, these sand dunes are covered by clay. In deeper areas, where this clay is accumulated between dunes, it prevents the infiltration of the water to the deeper layers and supports wetlands, moors and even lakes (Fig. 4).

The sand dunes are dominantly covered with Hornbeam, Turkey oak and Sessile oak forests (*Querceto robori-cerris carpinetosum* and *Quercetum robori-cerris pteridietosum*) Ferns are the dominant underbrush of these dry areas (Fig. 5), which consists mainly *Pteridium aquilinum* (Bracken), *Athyrium filix-femina* (Lady fern) and *Dryopteris filix-mas* (Male Fern). In these forests birch (Fig. 6) and pine spots makes the vegetation more diverse. In the wet areas, the Alder vegetation is dominant.

In the marginal area, the sand dunes are not present, the soil is harder, generally brown earths (cambisol) holding various vegetations: oak forests (*Quercus cerris* and *Quercus petrea*) with lime trees (*Tilia tomentosa*), wet meadows, creek willow vegetation.

The marginal area holds the richest sawfly fauna, however, in these spots, dominantly common, frequent and sometimes sporadic species were captured. Only 4 rare species were collected in these sites (mostly in Vése: Csöpröndi forest) of the 20 rare species.

The investigation is very important of these sampling sites to get complete picture on the sawfly fauna, however, the most valuable faunistic elements restricted to certain spots of the core area.

The richest sampling sites of the marginal area are: Bolhás: Hókamalom: Fishing pond; Somogyszob: marshy meadow at Segesd side of the village and Vése, Csöpröndi forest.

In interesting way, 70 percent of the rare faunistic elements were captured in 4 sampling sites of the investigated 31 sampling sites only (!) in 2012 and 2017, these are: Berzence: Filagoria, Szenta: Felső-Gyóta forest, Tarany: Kettős-tó forest (Fig. 1) and Kaszó: Kanizsaberek (only the small Northern part). The most valuable parts of Szenta: Felső-Gyóta forest, where 1 specimen of *Blasticotoma filiceti* Klug, 1834 and 1 specimen of *Heptamelus ochroleucus* (Stephens, 1835) were captured in 2012, was clear cut probably 1 or 2 years later (Fig. 7).

The other 21 sampling sites dominantly in the core area but also in the marginal areas resulted only few specimens of few (mostly lower than 10) species.

Usually, there is a second but definitely smaller peak of sawflies in the end of July and early August (dominantly *Arge*, *Athalia* and *Tenthredo* spp.). In interesting way, in this aspect of the year, we found only 2 specimens of *Athalia rosae* (Linné, 1758) and 2 specimens of *Arge melanochra* (Gmelin, 1790), only at Hókamalom: Fishing pond.



Fig. 1: Map of Tarany: Kettős Tó



Fig. 2: *Strongylogaster mixta* (Klug, 1817)



Fig. 3: *Dineura virididorsata* (Retzius, 1783)



Fig. 4: Small lake on the way from Kaszó to Iharosberény



**Fig. 5: Ferns are the dominant underbrushes of oak forests
(Tarany: Kettős-tó)**



Fig. 6: Birch spot in the oak forest



Fig 7: Clear cut at Felső-Gyóta forest

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