

Notes on Norwegian sawflies (Hymenoptera, Symphyta) II. 13 species new to the Norwegian Fauna

OLE JØRGEN LØNNVE

Lønnve, O. J.. 2009. Notes on Norwegian sawflies (Hymenoptera, Symphyta) II.
13 species new to the Norwegian Fauna. *Norw. J. Entomol.* 56, 50–56

A sawfly material, mainly from the collections at Natural History Museum, Oslo, is published. In this paper comments on 20 sawfly species with notes on their biology are given, 13 species are reported new to the Norwegian fauna.

Key words: Hymenoptera, Symphyta, faunistics, Norway

Ole Jørgen Lønnve, BioFokus, Gaustadalleen 21, NO-0349 Oslo, Norway. E-mail: ole@biofokus.no

Introduction

In course of the preparation of a Norwegian check list on sawflies, the author has been able to confirm more than 450 species so far published from Norway. The knowledge on the sawfly fauna in Norway has been a subject for very little attention for many decades. Most of the faunistic works concerning this insect group was published from 1880 to 1920. The main publications from this period is: Siebke (1880), Schøyen (1880, 1887), Kiær (1892, 1893, 1895, 1898) and Strand (1898a, 1898b, 1900, 1901, 1903, 1906, 1912, 1919). In recent time work has been carried out on Xyelidae, Pamphiliidae, Siricidae and Xyphidiidae (Midgaard, 1987, 1988). Nuorteva et al. (2005) gives a species list from the Østfold County with many new additions to the fauna. Some Norwegian species was also included by Anderson (1962).

Sawflies were surveyed for the 2006 Norwegian Red List (Kålås, et al., 2006). A total of 232 species was evaluated for listing, of which 38 are on the 2006 Red List.

For the last ten years or so, a great effort in collecting sawflies has been carried out by many

entomologists in Norway, and this has increased the faunistic knowledge on this insect group dramatically. Here comments on 20 species with notes on their biology are given. 13 species are new additions to the Norwegian fauna, 4 species are previously published in reports and 3 species are previously published as other species or other synonyms.

Material

Most of the material examined is kept at the Natural History Museum, Oslo. Material that belongs to or partly belongs to other collections is specified in the text. The nomenclature is after Taeger et al. (2006).

Records of each species include the EIS-grid number, based on 50 x 50 km squares (Endrestøl 2005). Regional abbreviations are identical to those given by Økland (1981).

Abbreviations: * (New to Norway), EH (Erik Heibo private collection), FØ (Frode Ødegaard private collection), NHMO (Natural History Museum, Oslo), OJL (Ole J. Lønnve private collection), ZMB (Zoological Museum, University of Bergen).

The species

CIMBICIDAE

Abia candens Konow, 1887 and *A. sericea* (Linnaeus, 1767)

The records of *A. candens*: Ø, Hvaler: Asmaløy, EIS 12, 18 June 2005, 1♂ leg Sørlibråten, O.; AK, Oslo: Bekkelaget, EIS 28, 30 June 1847, 1♂ leg. Siebke, J. H. S.; Oslo: Tøyen, EIS 28, before 1890, 1♀ leg. Moe, N. G.; HES, Kongsvinger: Kongsvinger, EIS 38, 27 June 2002, 1♂ leg. Lønnve, O. J.

The records of *A. sericea*: AK, Oslo: Abildsø, EIS 28, before 1880, 1♀ leg. Esmark, L. M.; HOI, Hardanger, 7 July 1874, 1♀ leg. Sparre Schneider, H. J.; HOY, Bergen: Bergen, EIS 30, 1870, 1♀ leg. Sparre Schneider, H. J.; HES, Elverum: Grundset, EIS 55, before 1875, 1♂ leg. Siebke, J. H. S.; MRY, Gjemnes: Batnfjorden, Knutset (UTMwgs8432VMQ359793), EIS 84, 13 August 2006, 1♀ leg. Hatlen, H.

Notes: In Siebke (1880), *Abia nitens* (Linnaeus, 1758) is regarded as a Norwegian species. This is not right. All the material of *Abia* (including Siebke's material) exanimate belongs to *A. candens* Konow, 1887 and *A. sericea* (Linnaeus, 1767). The hostplant to *A. nitens* is reported to be *Scabiosa columbaria* and *S. canescens* (Liston & Späth 2006). *S. canescens* don't occur in Norway (Mosseberg & Steinberg, 2007). *A. columbaria* is newly reported from Norway at one single spot at Moss, Jeløya (Engan et al. 2006), therefore is it not very likely that *A. nitens* are present here. *A. nitens* is therefore deleted from the Norwegian list. Though widespread, the records of *A. candens* and *A. sericea* are few and scattered. The hostplant for both species is *Succisa pratensis* (Liston & Späth 2006), a plant that occurs over a greater part of Norway. *A. candens* and *A. sericea* where assessed for the 2006 Red List. *A. candens* was given the category endangered (EN) based on small area of occupancy. *A. sericea* was given the category date deficient (DD).

TENTHREDINIDAE

Allantus togatus (Panzer, 1801)

Records: Ø, Fredrikstad: Onsøy, Ødegård (UTMwgs8432VPL03356404), EIS 20, 24 July 2007, 1♀ leg. Lønnve, O. J.; AK, Oslo: Aker, EIS 28, unknown collecting date, 1♀ leg. Anonymous; Nesodden: Bekkebråten (UTMwgs8432VNM9438132491), EIS 28, 7 June 2008, 1♀ leg. Lønnve, O. J.; BV, Rollag: Veggli, EIS 35, 20 June 1997, 1♀ leg. Sagvolden, B. A.

Notes: *A. togatus* was assessed for the 2006 Red List, and it was given the category vulnerable (VU) based on small area of occupancy and restricted number of localities. Polyphagous; *Betula*, *Quercus*, *Salix* spp. (Taeger et al. 1998).

Apethymus spp.

Notes: The knowledge on *Apethymus* is very insufficient in Norway. Species in this genus flies in late autumn, and they are rarely collected. In Europe, 7 species or so are known (Taeger et al., 2006). The taxonomic status for the species in this genus has been a subject for some confusion. The Palaearctic species has been revised by Koch (1988). Three species occurs in Norway, two are new to the fauna.

Apethymus apicalis (Klug, 1818)

Records: AK, Bærum: Storøykilen (UTMwgs8432 VNM895407), EIS 28, July–August 2002, 1♂ leg. Hansen, L. O.; Oslo: Ekebergskråninga (UTMwgs8432VNM98454100), 8 August–11 December 2007, 2♂ leg. Endrestøl, A. & Hansen, L. O.; TEY, Kragerø: Kragerø, EIS 11, unknown collecting date, 1♂ leg. Ullmann, A. C.

Notes: Schøyen (1887) mention one male specimen of *Emphytus filiformis* Klug collected by Ullmann from Kragerø. This specimen still exists in the collection at NHM, and clearly is an *A. apicalis* male. The hostplant is *Rosa* spp. (Taeger et al., 1998).

**Apethymus filiformis* (Klug, 1818)

Records: Ø, Halden; Rødsparken (UTMwgs84 32VPL361563), EIS 20, 17 September 2008, 1♀ leg. Olsen, T. J. (OJL); VAY, Kristiansand: Nedre Timenes (UTMwgs8432VMK470470), EIS 2, 1

October 2006, 1♀ leg. Berggren, K.; Kristiansand: Karlsmoen (UTMwgs8432VMK490546), EIS 5, 2 October 2005, 1♂ leg. Berggren, K.

Note: The hostplant is *Quercus robur* (Taeger et al., 1998).

***Apthymus serotinus (Müller, 1776)**

Records: Ø, Sarpsborg: Tune, Råkil (UTMwgs8432VPL24896754), 20 August 2006, 1♀ leg. Olsen, T. J.; VE, Stokke: Melsomvik, EIS 19, 22 July–27 August 1995, 1♂ leg. Hansen, L. O. & Hanssen, O.; VAY, Kristiansand: Nedre Timenes (UTMwgs8432VMK470470), EIS 2, 27 August 2007, 1♂ leg. Berggren, K.

Note: The hostplant is *Quercus* spp. (Taeger et al., 1998).

Dineura testaceipes (Klug, 1816)

Records: Ø, Moss: Jeløya, Nes, EIS 19, 2005, 1♀ leg. Sørlibråten, O.; Halden: Nokkedal sjø (UTMwgs84PL3696152142), EIS 20, 29 May 2008, 1♀ leg. Lønnve, O. J. (OJL); Halden: Nokkedal sjø (UTMwgs84PL3685452453), EIS 20, 29 May–4 July 2008, 1♀ leg. Lønnve, O. J. (OJL); Sarpsborg: Vister, Tune, EIS 20, 10 June 2005, 1♀ leg. Olsen, T. J.; AK, Nesodden: Skoklefall (UTMwgs8432VNM935935869), 2–3 June 2003, 1♀ leg. Lønnve, O. J.; Nesodden: Skoklefall (UTMwgs8432VNM935935869) EIS 28, 1 June 2006, 4♂1♀ leg. Lønnve, O. J.; Oslo, Bygdøy, Dronningberget, 29 May 2006, 1♂ leg. Olberg, S.; AAY, Birkenes: Nordåsen (UTMwgs8432VMK555660), EIS 6, June 2006, 1♀ leg. Svendsen, S.

Notes: *D. testaceipes* was first reported from Norway by Endrestøl et al. (2006). The hostplants are *Sorbus aucuparia* and *Crataegus* (Taeger et al., 1998).

***Eurhadinoceraea ventralis (Panzer, 1799)**

Records: AK: Nesodden: Hellyvik, EIS 28, 3 June 2006, 1♀ leg. Olberg, S.; Nesodden: Skoklefall (UTMwgs8432VNM935359), EIS 28, 11–23 June 2005, 5♀ leg. Lønnve, O. J.; Nesodden: Skoklefall (UTMwgs8432VNM935359), EIS 28, 9–10 June 2007, 1♂ leg. Lønnve, O. J.; Ås: Rustad (UTMwgs8432VPM016164), EIS 28, 6 June 2003, 1♀ leg. Aarvik, L.; Ås: Rustad

(UTMwgs8432VPM016164), EIS 28, 29 May 2004, 1♀ leg. Aarvik, L.; BØ: Drammen: Underlia, EIS 28, May 1999, 1♀ leg. Hansen, L. O.; Lier: Rypevegen, Lierskogen, EIS 28, 24 June–2 August 2002, 1♀ leg. Heibo, E. & Lønnve, O. J. (EH); OS, Lunner: Gruakollen (UTMwgs8432VNM916809), EIS 36, 19 June 2005, 1♂4♀ leg. Gammelmo, Ø.; STI, Trondheim: Stokkanhaugen, EIS 92, 15 June 2005, 2♀ leg. Ødegaard, F. (FØ/NHM).

Notes: The hostplant is *Clematis* spp. (Taeger et al., 1998). At Skoklefall, larvae of *E. ventralis* was collected in numbers on cultivated *Clematis alpina*. Cultivated *Clematis* spp. is common in gardens. *C. alpina* is natural, but very rare in Norway. Only known from some river-valleys in Gudbrandsdalen, Oppland. An interesting feature of the Norwegian records is the presence of males. In Europa *E. ventralis* is a parthogenetic species (Müller et al. 2004).

***Fenusa dohrnii (Tischbein, 1846)**

Records: BØ, Kongsberg: Klopffoss (UTMwgs8432VNM36701159), EIS 27, 20 May 2007, 1♀ leg. Sagvolden, B. A.; AAY, Grimstad: Reddalsvann; EIS 6, 16 July–2 August 1996, 1♀ leg. Berggren, K.

Notes: The hostplant is *Alnus* spp. (Taeger et al., 1998). *A. incana* and *A. glutinosa* are the only *Alnus*-species natural in Norway, both widespread and common many places.

Fenusa ulmi (Sundevall, 1844)

Records: AK, Bærum: Kolsås (UTMwgs8432VNM849432), EIS 28, May–24 June 2005, 1♀ leg. Gammelmo, Ø. & Hansen, L.O.; Oslo: Hovedøya (UTMwgs8432VNM968414), EIS 28, 27 May 2005, 1♀ leg. Lønnve, O. J.; Ås: Storebrand (UTMwgs8432VPM000154), EIS 28, 8 July 1985, 1♀ Andersen, A.

Notes: *F. ulmi* was first reported from Norway by Endrestøl et al. (2006). The hostplant is *Ulmus* spp. (Taeger et al., 1998). *U. glabra* is the only *Ulmus*-species natural in Norway. *U. glabra* is widespread in the Oslofjord district, and abundant at all three localities.

Fenusella glaucopsis (Konow, 1907)Messa glaucopsis* (Konow, 1907)

Records: Ø, Hvaler: Vesterøy, Guttormsvauen, EIS 20, 27 May 2006, 1♀ Sørlibråten, O.; VAY, Kristiansand: Nedre Timenes (UTMwgs8432VMK470470), EIS 2, 2 June 2007, 1♀ leg. Berggren, K.; AAY, Lillesand: Kjøstvedt (UTMwgs8432VMK549496), EIS 6, 2 June 2007, 1♀ leg. Berggren, K.

Notes: The hostplant are *Populus* spp. (Taeger et al. 1998). *P. tremula* is the only *Populus*-species natural in Norway.

***Hinataria recta (Thomson, 1871)**

Records: Ø, Sarpsborg: Skjeberg, Sandbakken, EIS 20, 23 April 2002, 2♂ leg. Olsen, T. J.; AK, Nesodden: Røer (UTMwgs8432VNM945316), EIS 28, 19 May 2006, 1♀ leg. Lønnve, O. J.; Oslo: Tøyen, Botanisk hage (UTMwgs8432VNM988436), 15–17 April 2007, 3♀ leg. Endrestøl, A., Oslo: Sørkedalen, Ringerike (UTMwgs8432VNM907523), EIS 36, 13 May–1 June 2002, 1♂1♀ leg. Heibo, E. & Lønnve, O. J. (EH/NHM); BØ, Lier: Gjellebekk landskapsvernområde, EIS 28, 26 April–19 May 2002, 1♂ leg. Heibo, E. & Lønnve, O. J. (EH); Lier: Gjellebekk naturreservat, EIS 28, 26 April–19 May 2002, 1♂ leg. Heibo, E. & Lønnve, O. J.; TEI, Tinn: Håkanes, EIS 26, May 1995, 1♀ leg. Sagvolden, B. A.; VAY, Kristiansand: Nedre Timenes (UTMwgs8432VMK470470), EIS 2, 1 May 2005, 1♀ leg. Berggren, K.

Notes: The hostplant is *Acer platanoides* (Taeger et al., 1998). At Tøyen, Botanisk hage, imago of *H. recta* was seen in numbers on the flowers of *A. platanoides*.

Metallus lanceolatus (Thomson, 1870)Metallus gei* Brischke, 1883

Records: AK, Bærum: Storøykilen, Oksenøya (UTMwgs8432VNM895407), EIS 28, July–August 2002, 1♀ leg. Hansen, L. O.; Bærum: Kirkerud (UTMwgs8432VNM830419), EIS 28, 13 June–9 August 2007, 4♀ leg. Olsen, K. M. (OJL); VE, Nøtterøy: Østre Bolærne (UTMwgs8432VNL89386380), EIS 19, 16 June–21 July 2007, 1♀ leg. Endrestøl, A.; HES, Kongsvinger: Abborhøgda (UTMwgs84

33VUG591746), EIS 38, 29 July–10 August 2003, 1♀ leg. Hansen, L. O. & Sund, K.; Kongsvinger: Abborhøgda (UTMwgs8433VUG591746), EIS 38, 20–29 July 2003, 1♀ leg. Sund, K.; Kongsvinger: Åranstorpet (UTMwgs8433VUG578768), 23 July–8 August 2004, 1♀ leg. Sund, K.

Notes: The hostplants are *Geum urbanum* and *G. rivale* (Taeger et al. 1998). Both common in Norway.

***Monophadnus monticola (Hartig, 1837)**

Records: BØ, Lier: Gjellebekk naturreservat, EIS 28, 26 April–19 May 2002, 3♀ leg. Heibo, E. & Lønnve, O. J.; Lier: Lierskogen, EIS 28, 26 April–17 May 2002, 25♀ leg. Heibo, E. & Lønnve, O. J. (EH/NHM); HES, Sør-Odal: Sør-Odal, EIS 37, 31 May 1970, 1♀ leg. Sæther, T.; HEN, Trysil: Lutnes, EIS 56, 26 April–18 May 2002, 3♀ leg. Heibo, E. & Lønnve, O. J.; TEI, Tinn: Spjeldset (UTMwgs8432VNM02064485), EIS 27, 15 May 2005, 1♀ leg. Lønnve, O. J.; MRY, Sykkylven: Vik, EIS 76, 4–15 May 2001, 11♀ Skartveit, J.; MRI, Rauma: Isfjorden, Pundet (UTMwgs8432VMQ382397), EIS 77, 4–13 May 2000, 1♀ leg. Hatlen, H.

Notes: The taxonomic status to this species is unclear, and need to be revised (Blank & Taeger, 1998). The hostplant is *Ranunculus acris* ? (Liston, 1995).

***Monophadnoides ruficruris (Brullé, 1832)**

Records: AK, Nesodden: Skoklefall (UTMwgs8432VNM935359), EIS 28, 10 May 2006, 1♀ leg. Lønnve, O. J.; Oslo: Tøyen, 10 June EIS 28, 1846, 1♀ leg. Siebke, J. H. S.

Note: The hostplant is *Rubus idaeus* (Taeger et al. 1998).

***Nematus lucidus* Panzer, 1801**

Records: AK, Nesodden: Røer (UTMwgs8432VNM943318), EIS 28, 6 June 2006, 1♀ leg. Lønnve, O. J.; Oslo: Lindøya (UTMwgs8432VNM95984048), EIS 28, 1–19 June 2006, 1♀ leg. Endrestøl, A.; Oslo: Tøyen, Oslo (UTMwgs8432VNM995439), 21 May 2002, 1♀ leg. Lønnve, O. J.; BØ, Lier: Lierskogen, Rypevegen 34, (UTMwgs8432VNM750323), EIS 28, 11 May–17 August 2003, 1♀, leg. E. Heibo,

coll. E. Heibo. **VE**: Tønsberg: Slagentangen (UTMwgs8432VNL867766), EIS 19, 30 April–29 May 2008, 1♀ leg. Olberg, S. (OJL); Tjøme: Moutmarka (UTMwgs8432VNL800487), EIS 19, 11 May 2009, 1♂1♀ leg. Olberg, S. (OJL); **HOY**, Os: Lysekloster, EIS 30, 17 June 1965, 1♂ leg. Midttun, B. (det. Benson, R.) (ZMB).

Notes: *N. lucidus* was first reported from Norway by Endrestøl et al. (2006). The hostplants are *Prunus spinosa* and *Crataegus* (Taeger et al. 1998). At Lindøya *P. spinosa* is abundant. At Røer the specimen was collected while basking on a *P. padus* leaf. May be *N. lucidus* are able to utilize *P. padus* as a hostplant? *P. spinosa* and *Crataegus* was not present at this collecting site.

***Pachynematus scutellatus (Hartig, 1837)**

Pikonema scutellatum (Hartig, 1837)

Records: **AK**, Bærum: Lysaker, EIS 28, 25 May 1891, 1♂ leg. Anonymous.; Nesodden: Skoklefall (UTMwgs8432VNM935359), EIS 28, 19–23 May 2004, 1♀ leg. Lønnve, O. J.; Nesodden: Skoklefall (UTMwgs8432VNM935359), EIS 28, 27–29 May 2005, 1♀ leg. Lønnve, O. J.; Lørenskog: Losbydalen, EIS 29, 9 June 1997, 1♀ leg. Sørlibråten, O.; Rælingen: Løvenstad (UTMwgs8432VPM133469), EIS 29, 11 June 2004, 1♀ leg. Sund, K.; **BØ**, Modum: Buskerud landbruksskole (UTMwgs8432VNM502384), EIS 28, June 2003, 2♀ leg. Eikeland, A.; Lier, Lierskogen, Vestre Kjenner vei, EIS 28, 10 May 2009, 2♂♂, leg. E. Heibo, coll. E. Heibo; Heiabeitet sør, 10 May 2008, 7♂♂, leg. E. Heibo, coll. E. Heibo; **FØ**, Sør-Varanger: Sør-Varanger, EIS 169, June 1892, 1♂ leg. Anonymous.

Note: All *P. scutellatus* was taken swarming on the outside of Norwegian spruce *Picea abies*. In both collection situations there were more swarming approximately 5–7 meters over the ground in trees that were approximately 15–20 meters high (Heibo pers. com.).

***Paracharactus gracilicornis (Zaddach, 1859)**

Record: **AK**, Frogne: Bonn (UTMwgs8432NM964217), EIS 28, 14 April 2007, 1♀ leg. Lønnve, O. J.

Note: The hostplant is *Adoxa moschatellina* (Taeger et al., 1998).

***Pristiphora angulata Lindqvist, 1974**

Records: **AK**, Nesodden: Skoklefall (UTMwgs8432NM935359), EIS 28, May 2008, many specimens leg. Lønnve, O. J. (OJL); **OS**, Jevnaker: Jevnaker centre (UTMwgs8432VNM7676979063), EIS 36, 2 May 2009, 3♂6♀ leg. Lønnve, O. J. (OJL).

Notes: The hostplant to this species is according to Laucort (1999) *Spirea chamaedryfolia*. Like many places in Norway, at Skoklefall *S. chamaedryfolia* is used as ornamental bush in gardens and along streets. *S. chamaedryfolia* is also naturalised many places. On both localities adults of *P. angulata* occurred in great numbers swarming around the foodplant, During June at Skoklefall, the bushes where full of its larvae.

***Pristiphora subbifida (Thomson, 1871)**

Record: **AK**, Oslo: Gressholmen, 9 May 1993, 1♀ leg. Berg, Ø.

Notes: The hostplant is *Acer campestre* (Liston, 2008). *A. campestre* is introduced and naturalised some places in Norway. As far as known, *A. campestre* is not present at Gressholmen (Bjøreke per. com.). Gressholmen is one of many small islands in the inner part Oslofjord, and the conditions here should be good for *A. campestre*. *A. pseudoplatanoides* can also probably be utilized as a hostplant for *P. subbifida*, but this requires confirmation (Liston, 2008). *A. pseudoplatanoides* is also introduced and naturalised many places in Norway, and reported at some of the islands nearby Gressholmen.

Acknowledgements. I want to thank all colleagues for collecting sawfly material, especially: Kai Berggren, Tor Jan Olsen, Erik Heibo, Øivind Gammelmo, Lars Ove Hansen, Stefan Olberg, Anders Endrestøl, Halvard Hatlen, Svein Svendsen, Bjørn A. Sagvolden, Leif Aarvik, Frode Ødegaard, Øistein Berg, Kjell Magne Olsen, Karsten Sund, John Skartveit and Audun Eikeland.

REFERENCES

- Anderson, H. 1962. Bidrag till kännedomen om de skandinaviska växtsteklarnas utbredning (Hym. Phytophaga). *Opuscula Entomologica* 27, 28–34.
Blank, S. M. & Taeger, A. 1998. Comments on the taxonomy of Symphyta (Hymenoptera) (Preliminary

- studies for a catalogue of Symphya, part 4). Pp. 141–174 in Taeger, A. & Blank, S. M. (Eds): Pflanzenwespen Deutschlands (Hymenoptera, Symphyta). Kommentierte Bestandsaufnahme. Verlag Goecke & Evers, Kelttern.
- Endrestøl, A. 2005. Ny versjon av EIS-systemet for Norge. Fauna (Oslo) 58, 92–97.
- Endrestøl, A., Gammelmo, Ø., Hansen, L. O. Lønnve, O. J., Olberg, S., Olsen, K. M. & Aarvik, L. 2006. Registrering og overvåking av utvalgte insekter i Oslo kommune 2006 II. Nasjonal sentraliseringsprosjekt. Rapport. NHM-rapport.
- Engan, G., Båtvik, J. I. I. & Lindberg, C. 2006. Oppsiktsvekkende funn av solrose *Helianthemum nummularium*, fagermyske *Asperula tinctoria*, bakkeknapp *Scabiosa columbaria* og hvitmure *Drymocallis rupestris* på Jeløy i Moss. Varmetidsrelikter eller dyktig forfalskning? Blyttia 64 (1), 15–32.
- Kiær, H. 1892. Fortegnelse over nogle for Norges Fauna nye Arter af phytophage Hymenoptera. Entomologisk Tidsskrift, Stockholm 1892, 69–70.
- Kiær, H. 1893. Indberetning om en i det sydlige Norge foretagen entomologisk Reise sommeren 1891. Entomologisk Tidsskrift, Stockholm 1893, 225–234.
- Kiær, H. 1895. Fortegnelse over Bladvæpse indsamlede i det sydlige Norge i 1893. Entomologisk Tidsskrift, Stockholm 1895, 155–156.
- Kiær, H. 1898. Uebersicht der phytophagen Hymenopteren des arktischen Norwegens. Tromsø Mus. Aarsh. 19 (1896), 13–112.
- Kock, V. F. 1988. Die palearktischen Arten der Gattung *Apethymus* Benson, 1939 (Hymenoptera, Symphyta; Allantinae). Mitt. Münch. Ent. Ges. 78, 155–178.
- Kålås, J. A., Viken, Å. & Bakken, T. (red.) 2006. Norsk Rødliste 2006 – 2006 Norwegian Red List. Artsdatabanken, Norway.
- Lacourt, J. 1999. Répertoire des Tenthredinidae oust-paléarctiques (Hymenoptera, Symphyta). Mémoires de la SEF, vol. 3, 432 pp.
- Liston, A. 1995. Compendium of European Sawflies. List of species, modern nomenclature, distribution, foodplants, identification, literature. Gottfrieding, Chalastos Forestry, 190 pp.
- Liston, A. 2008. On the sawflies of Cyprus, with a revision of the *Pristiphora subbifida* species group. Mitt. Münch. Ent. Ges. 98, 99–120.
- Liston, A. & Späth, J. 2006. On the Biology of *Abia nitens* (Linné, 1758) (Hymenoptera: Symphyta: Cimbicidae): a Thermophile Sawfly with Diurnal Larval Feeding-Pattern. Pp. 129–138 in Blank, S. M., Schmidt, S. & Taeger, A. (eds) 2006. Recent sawfly Research: Synthesis and Prospects. 704 pp., 16 pl. Goecke & Evers, Kelttern.
- Mossberg, B. & Stenberg, L. 2007. Gyldendals Store Nordiske Flora. Revidert og utvidet utgave. Gyldendal. 928 pp.
- Midtgaard, F. 1987. The Norwegian Xyelidae and Pamphilidae (Hymenoptera). Fauna norv. Ser. B. 34 (3). 125–130.
- Midtgaard, F. 1988. The Norwegian Siricoidea (Hymenoptera). Fauna norv. Ser. B. 35 (2). 53–60.
- Müller, C., Barker, A., Boevé, J.-L., De Jong, P. W., De Vos, H. & Brakefield, P. M. 2004. Phylogeography of two parthenogenetic sawfly species (Hymenoptera: Tenthredinidae): relationship of population genetic differentiation to host plant distribution. Biological Journal of the Linnean Society 83, 219–227.
- Nuorteva, M., Nuorteva, J. & Olsen, T. J. 2005. Records of sawflies (Hymenoptera: Symphyta) from Østfold, Southern Norway. Sahlbegia 10, 68–79.
- Schøyen, W. M. 1880. Bemærkninger til H. Siebke's Enumeratio Insectorum Norvegicorum, Fasciculus V, Pars I (Hymenoptera phytophaga aculeata), edidit J. Sp. Schneider. Christiania Videnskabselskabs Forhandling 10, 1–15.
- Schøyen, W. M. 1887. Supplement til H. Siebke's Enumeratio Insectorum Norvegicorum, Fasc. V. Pars I (Hymenoptera phytophaga & aculeata). Christiania Videnskabselskabs Forhandling 5, 1–11.
- Siebke, H. 1880. Enumeratio Insectorum Norvegicorum Fasc. V, Pars I. Catalogum Hymenopterorum Continent. Christiania.
- Strand, E. 1898 a. Enumeratio Hymenopterorum Norvegicorum. Ent. Tidskr. 19, 71–112.
- Strand, E. 1898 b. Coleopterologische und hymenopterologische Untersuchungen in Hallingdal und Lyngør (Norwegen) 1897. Arch. Math. Naturv. 1896/97 (6), 65–83.
- Strand, E. 1900. Om nogle staphylinider og phytophage Hymenoptera. Arch. Math. Naturv. B. 22 (3), 1–15.
- Strand, E. 1901. Orthoptera og Hymenoptera samlede i 1900. Arch. Math. Naturv. B 23 (6), 1–7.
- Strand, E. 1903. Hymenopterologisk bidrag til Norges fauna. Arch. Math. Naturv. (8), 1–8.
- Strand, E. 1906. Nye bidrag til Norges hymenopter- og dipterfauna. Nyt magasin for naturvidenskaperne 44, 95–104.
- Strand, E. 1912. Neue Beiträge zur Arthropodenfauna Norwegens nebst gelegentlichen Bemerkungen über deutsche Arten. (Unter Mitwirkung von Spezialisten).

- VI–XII. (Plecoptera, 7 Schlupfwespenfamilien, Vespidae, Formicidae, Chalcididae). *Nyt magasin for naturvitenskaberne* (50), 1–51.
- Strand, E. 1919. Neue Beiträge zur Arthropodenfauna Norwegens nebst gelegentlichen Bemerkungen über deutsche Arten. (Unter Mitwirkung von Spezialisten). XXII–XXVI. (Chalcididae, Braconidae, Weiteres über Hymenoptera. Cynipidae (2. Teil). Neue Kleinsmetterlings aus Ranen in Nordland). *Nyt magasin for naturvitenskaberne* (56), 107–127.
- Taeger, A., Altenhofer, E., Blank, S. M., Jansen, E., Kraus, M., Pschorn-Walcher, H. & Ritzau, C. 1998. Kommentare zur Biologie, Verbreitung und Gefährdung der Pflanzenwespen Deutschlands (Hymenoptera, Symphyta). Pp. 49–136 in Taeger, A. & Blank, S. M. (Eds): *Pflanzenwespen Deutschlands (Hymenoptera, Symphyta). Kommentierte Bestandsaufnahme*. Verlag Goecke & Evers, Keltern.
- Taeger, A., Blank, S. M. & Liston, A. D. 2006. European Sawflies (Hymenoptera: Symphyta) –A Species Checklist for the Countries. Pp. 399–504 in Blank, S. M., Schmidt, S. & Taeger, A. (eds) 2006. *Recent sawfly Research: Synthesis and Prospects*. 704 pp., 16 pl. Goecke & Evers, Keltern.
- Økland, K. A. 1981. Inndelingen av Norge til bruk ved biografiske oppgaver – et revidert Strand-system. *Fauna (Oslo)* 34, 167–178.

Received: 30 April 2009

Accepted: 14 May 2009