

## A List of Danish Aphids

### 8.: Lachnidae, Chaitophoridae, and Callaphididae.

By

Ole E. Heie

Skive Seminarium, Skive.

Parts 1—7 dealing with the family Aphididae (with 212 Danish species) appeared in Entomologiske Meddelelser 1960 (29: 193—211), 1961 (31: 77—96), 1962 (31: 205—224), 1964 (32: 341—357), 1967 (35: 125—141), and 1969 (37: 70—94, 373—385). The present paper, the 8th part of the list, comprises records of the Danish species belonging in the families Lachnidae, Chaitophoridae, and Callaphididae (sensu Börner 1952).

#### List of the species

##### L a c h n i d a e

213. *Eulachnus brevipilosus* Börner, 1940
214. *E. rileyi* (Williams, 1910)
215. *Schizolachnus obscurus* Börner, 1940
216. *S. pineti* (Fabricius, 1781)
217. *Cinara bogdanowi* Mordvilko, 1895
218. *C. grossa* (Kaltenbach, 1843)
219. *C. kochiana* (Börner, 1939)
220. *C. laricis* (Walker, 1848)
221. *C. piceicola* (Cholodkovsky, 1896)
222. *C. pilicornis* (Hartig, 1841)
223. *C. pinea* (Mordvilko, 1895)
224. *C. pini* (Linné, 1758)
225. *C. (Cupressobium) juniperi* (de Geer, 1773)
226. *C. (Cupr.) juniperina* (Mordvilko, 1895)
227. *C. (Dinolachnus) piceae* (Panzer, 1801)
228. *C. (Lachniella) costata* (Zetterstedt, 1828)
229. *C. (Todolachnus) pectinatae* (Nördl., 1880)
230. *Tuberolachnus salignus* (Gmel., 1788)
231. *Lachnus roboris* (Linné, 1758)
232. *L. (Schizodryobius) exsicicator* Altum, 1882
233. *L. (S.) longirostris* (Mordvilko, 1901)

- 234. *Stomaphis quercus* (Linné, 1758)
- 235. *Protrama flavescens* (Koch, 1856)
- 236. *P. ranunculi* (del Guercio, 1909)
- 237. *Neotrama caudata* (del Guercio, 1909)
- 238. *Trama rara* Mordvilko, 1908
- 239. *T. troglodytes* v. Heyden, 1837

#### Chaitophoridae

- 240. *Periphyllus aceris* (Linné, 1758) subsp. *acericola* (Walker, 1848)
- 241. *P. lyropictus* (Kessler, 1886)
- 242. *P. testudinaceus* (Ferne, 1852)
- 243. *Chaitophorus beuthani* (Börner, 1950)
- 244. *Ch. capreae* (Mosley, 1841)
- 245. *Ch. leucomelas* (Koch, 1854)
- 246. *Ch. parvus* Hille Ris Lambers, 1935
- 247. *Ch. populeti* (Panzer, 1805)
- 248. *Ch. populiabae* (Boyer d. Fonscolombe, 1841)
- 249. *Ch. salicti* (Schränk, 1801)
- 250. *Ch. tremulae* (Koch, 1854)
- 251. *Laingia psammae* Theobald, 1922
- 252. *Atheroides serrulatus* Haliday, 1838
- 253. *Sipha glyceriae* (Kaltenbach, 1843)
- 254. *S. (Rungsia) kurdjumovi* Mordvilko, 1921
- 255. *S. (R.) arenarii* Mordvilko, 1921
- 256. *Chaetosiphella berleseii* (del Guercio, 1905)

#### Callaphididae

- 257. *Drepanosiphum acerinum* (Walker, 1848)
- 258. *D. aceris* Koch, 1855
- 259. *D. platanoidis* (Schränk, 1801)
- 260. *Symydobius oblongus* (v. Heyden, 1837)
- 261. *Clethrobium comes* (Walker, 1848)
- 262. *Euceraphis punctipennis* (Zetterstedt, 1828)
- 263. *Phyllaphis fagi* (Linné, 1767)
- 264. *Callipterinella callipterus* (Hartig, 1841)
- 265. *C. tuberculata* (v. Heyden, 1837)
- 266. *Calaphis betulicola* (Kaltenbach, 1843)
- 267. *C. flava* Mordvilko, 1928
- 268. *Betulaphis brevopilosa* Börner, 1940
- 269. *B. quadrituberculata* (Kaltenbach, 1843)
- 270. *Callaphis juglandis* (Goetze, 1778)
- 271. *Chromaphis juglandicola* (Kaltenbach, 1843)
- 272. *Eucallipterus tiliae* (Linné, 1758)
- 273. *Myzocallis carpini* (Koch, 1855)
- 274. *M. castanicola* Baker, 1917
- 275. *M. coryli* (Goetze, 1778)
- 276. *M. myricae* (Kaltenbach, 1843)
- 277. *Tuberculoides annulatus* (Hartig, 1841)
- 278. *Tuberculatus querceus* (Kaltenbach, 1843)

279. *Pterocallis albidus* Börner, 1940  
 280. *Pt. alni* (de Geer, 1773)  
 281. *Pt. maculatus* (v. Heyden, 1837)  
 282. *Ctenocallis setosus* (Kaltenbach, 1846)  
 283. *Therioaphis luteola* (Börner, 1949)  
 284. *Th. ononidis* (Kaltenbach, 1846)  
 285. *Th. trifolii* (Monell, 1882)  
 286. *Trichocallis cyperi* (Walker, 1848)  
 287. *Allaphis verrucosa* (Gillette, 1917)  
 288. *Subsalsusaphis flava* (Hille Ris Lambers, 1939)  
 289. *Iziphya bufo* (Walker, 1848)  
 290. *I. leegei* Börner, 1940

Genus **EULACHNUS** del Guercio, 1909

213. *Eulachnus brevipilosus* Börner, 1940

Protolachnus brevipilosus: Börner 1952, p. 40, no. 4

**Distribution:** Germany, England, Scotland, Czechoslovakia, Sweden, Norway, and Denmark in Europe, Washington, USA, in North America.

**Occurrence in Denmark:** Jutland: On *Pinus silvestris* at Brunshåb near Viborg (12-7-59), specimens gone astray from *Pinus* at Skive (6-7-59, Hille Ris Lambers det.) and Blokhus (6-7-62). Sealand: On *Pinus* at Ordrup Strand at Fårevejle (9-12-64, J. Reitzel leg.).

214. *Eulachnus rileyi* (Williams, 1910)

*Eulachnus bluncki* Börner, 1940, p. 1

Protolachnus bluncki: Börner 1952, p. 40, no. 3

*Eulachnus rileyi*: Pintera 1968, p. 103; Szelegiewicz 1968, p. 21

**Distribution:** Europe, Turkey, and North America. It is known from Sweden and Norway.

**Occurrence in Denmark:** Jutland: On *Pinus mugo* at Blokhus (8-7-65). The Danish Islands: On *Pinus nigra* at Drejet on Ærø (8-7-57).

Genus **SCHIZOLACHNUS** Mordvilko, 1909

215. *Schizolachnus obscurus* Börner, 1940

*Schizolachnus obscurus*: Börner 1952, p. 40, no. 7

**Distribution:** Central Europe.

**Occurrence in Denmark:** Jutland: On *Pinus nigra* at Femmøller, Mols (8-8-59) and at Ulstrup in Djursland (6-7-60). The Danish Islands: On *Pinus nigra* at Drejet on Ærø (8-7-57).

Pintera (1968) and Szelegiewicz (1968) regard *obscurus* as a

synonym of *pineti* Fabr., but there is a morphological difference; the Vth rostral segment is longer in *obscurus* than in *pineti* as pointed out by Börner.

216. *Schizolachnus pineti* (Fabricius, 1781)

*Schizolachnus tomentosus* (Villers, 1789): Mordvilko, 1909

*Schizolachnus pineti*: Börner 1952, p. 40, no. 6

**Distribution:** Europe, Asia, and North America. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Pinus* (*mugo*, *silvestris*) at Blokhús (31-7-63, 2-7-65), Legind Bjerger, Mors (3-6-59), Brunshåb near Viborg (12-7-59), and Dalgas Plantation between Skive and Viborg (16-6-59). Sealand: On *Pinus* at Dragerup near Holbæk (7-7-1890, Meinert leg.), Hornbæk (9-8-17, M. Thomsen leg. et det.), and Copenhagen (8-10-17, M. Thomsen leg. et det.).

Genus **CINARA** Curtis, 1835

217. *Cinara* (*Cinara*) *bogdanowi* Mordvilko, 1895

*Cinaropsis* (*Pityaria*) *pruinosa*: Börner 1952, p. 43, no. 25

*Cinara bogdanowi*: Szelegiewicz 1968, p. 15

**Distribution:** Europe, Asia, and North America. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Picea sitchensis* at Blokhús (8-8-65, 3-6-67, 24-7-68) and Hune in Vendsyssel (19-6-61), and on *Picea abies* at Madum Lake in Himmerland (10-6-58, 25-5-60).

218. *Cinara* (*Cinara*) *grossa* (Kaltenbach, 1843)

*Cinaropsis* (*Mecinaria*) *piceae*: Börner 1952, p. 44, no. 30

*Cinara grossa*: Pintera 1966, p. 314; Szelegiewicz 1968, p. 16

*Cinara piceae*: auct., nec Panzer, 1801, according to Pintera 1966

**Distribution:** Europe, Asia, and North America. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Picea sitchensis* at Ydby, Thy (21-6-59) and Blokhús (24-7-68), on *Picea glauca* at Ville, Salling (26-7-59), on *Picea* or gone astray from *Picea* at Jellinge (16-6-48, Bayer leg.) and Legind Bjerger, Mors (4-6-59). Sealand: On *Picea abies* at Lyngby (17-6-38, the collection of the State Experiment Station).

219. *Cinara (Cinara) kochiana* (Börner, 1939)

*Cinaria kochiana*: Börner, 1939

*Laricaria kochiana*: Börner 1952, p. 42, no. 16

*Cinara kochiana*: Szelegiewicz 1968, p. 16

**Distribution**: Outside Denmark known from Sweden, England, Czechoslovakia, Poland, Austria, Italy, and Mongolia.

**Occurrence in Denmark**: Sealand: On *Larix* at Holte (26-7-64, J. Reitzel leg.).

220. *Cinara (Cinara) laricis* (Walker, 1848)

*Cinaria laricis*: Börner 1952, p. 42, no. 21

*Cinaria laricis* (Hartig, 1837): Szelegiewicz 1968, p. 16

**Distribution**: Europe, Asia, and North America. It is known from Sweden and Finland.

**Occurrence in Denmark**: Jutland: On *Larix* at Femmøller, Mols (3-8-59). Sealand: On *Larix* at Rude Forest (22-9-17, M. Thomsen leg. et det.).

221. *Cinara (Cinara) piceicola* (Cholodkovsky, 1896)

*Cinaropsis cistata*: Börner 1952, p. 43, no. 26

*Cinara piceicola*: Stroyan 1964, p. 30; Szelegiewicz 1968, p. 17

**Distribution**: Europe, Asia, and North America. It is known from Sweden and Norway.

**Occurrence in Denmark**: Jutland: On *Picea abies* at Madum Lake, Himmerland (21-5-57, 11-6-58, 2-9-58), Rold Forest (19-6-58), Kronhede Plantation (27-5-58), Hvidemose at Rønbjerg south of Skive (18-9-58), Estvadgård Plantation at Flyndersø (18-9-58), and Femmøller, Mols (6-7-60), on *Picea glauca* at Blokhus (24-7-65), and on *Picea sitchensis* at Blokhus (4-8-63, 6-6-66) and Buderupholm, Himmerland (12-6-58). Sealand: On *Picea abies* at Geel Forest (24-9-50), Grib Forest (17-10-65), and Tokkekøb Hegn (2-6-66).

222. *Cinara (Cinara) pilicornis* (Hartig, 1841)

*Cinaropsis pilicornis*: Börner 1952, p. 43, no. 28

*Cinara pilicornis*: Szelegiewicz 1968, p. 17

**Distribution**: Europe, Asia, and North America. It is known from Sweden, Norway, Finland, and Iceland.

**Occurrence in Denmark**: Jutland: On *Picea abies* at Sødal Forest near Viborg (16-6-57), south of Skive (24-7-58), Dalgas Plantation between Skive and Viborg (16-6-59), Brunshåb near Viborg (12-7-59), east of Holstebro (30-6-58), and Brassø near

Silkeborg (12-7-60), on *Picea glauca* at Blokhus (2-7-65) and Sejstrup near Skive (16-6-59), and on *Picea sitchensis* at Blokhus (20-6-61, 31-7-66), Rold Forest (19-6-58), Krabbesholm Forest at Skive (25-6-57), and Kølsen near Viborg (26-6-57). Funen: On *Picea sitchensis* at Hylkedam (28-5-57). Other islands: On *Picea abies* at Nørre Alslev on Falster (23-6-64, J. Reitzel leg.) and on *Picea sitchensis* at Hventgård on Læsø (11-8-57).

223. *Cinara (Cinara) pinea* (Mordvilko, 1895)

*Cinara pini*: Börner 1952, p. 41, no. 8

*Cinara (Cinarella) pinea*: Szelegiewicz 1968, p. 14

**Distribution:** Europe, Asia, and North America. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Pinus (mugo, silvestris, sp.)* at Blokhus (18-6-60, 13-7-64, 10-7-65, 7-6-66, 24-7-68), Madum Lake, Himmerland (28-5-59), Borup at Skals (26-6-57), Bruddals Bakker at Skive (3-8-57), Skive (22-6-60, 6-7-63), south of Skive (1-8-58, 13-5-59), Skørsø at Vinderup (24-6-57), Hald Lake at Viborg (20-5-59), and Femmøller, Mols (3-8-59, 6-7-60). The Danish Islands: West of Byrum, Læsø (6-8-57) and Hventgård, Læsø (6-8-57).

224. *Cinara (Cinara) pini* (Linné, 1758)

*Cinaria nuda*: Börner 1952, p. 42, no. 22 (The true *Lachnus nudus* Mordvilko, 1895, is according to Szelegiewicz (1968) another species, of which *Cinaria escherichi* Börner, 1950, is a synonym)

*Cinaria pini*: Szelegiewicz 1968, p. 17

**Distribution:** Europe, Asia, and North America. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Pinus mugo* at Legind Bjerger, Mors (21-5-60), Skive (11-5-59), south of Skive (13-5-59), and Skørsø near Vinderup (24-6-57), and a single alate individual on *Abies* (gone astray from *Pinus*) at Blokhus (4-8-63).

225. *Cinara (Cupressobium) juniperi* (de Geer, 1773)

*Cupressobum juniperi*: Börner 1952, p. 44, no. 33

*Cinara (Cupressobium) juniperi*: Szelegiewicz 1968, p. 19

**Distribution:** Europe, Asia, North America, and New Zealand. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Juniperus communis* at Blokhus (29-7-60, 17-7-65), Hammer Bakker, Vendsyssel (1-8-68), Lundby Bakker south of Ålborg (10-7-68), Rebild

(3-8-64), Skive (2-9-56, 16-5-59, 7-6-63), and Femmøller, Mols (3-8-59, 7-7-60). The Danish Islands: On *Juniperus communis* at Hventgård on Læsø (6-8-57).

226. *Cinara (Cupressobium) juniperina* (Mordvilko, 1895)

*Cupressobium juniperinum*: Börner 1952, p. 44, no. 34

*Cinara (Cupressobium) juniperina*: Szelegiewicz 1968, p. 19

**Distribution**: Nearly all over the world. It is known from Sweden.

**Occurrence in Denmark**: Sealand: On *Chamaecyparis* at Sundby, Copenhagen (17-10-51, the collection of the State Experiment Station, Lyngby). Bovien (1950, p. 223) mentions attacks of *Cinara tujae* (= *C. juniperina*) on thuja in two cemeteries in Copenhagen in October, 1947.

227. *Cinara (Dinolachnus) piceae* (Panzer, 1801)

*Todolachnus abieticola* (Cholodkovsky, 1899): Börner 1952, p. 44, no. 31

*Cinara (Dinolachnus) piceae*: Szelegiewicz 1968, p. 18

*Cinara grossa*: auct., nec Kaltenbach, 1843 (according to Szelegiewicz 1968)

**Distribution**: Europe and North America. It is known from Sweden and Finland.

**Occurrence in Denmark**: Jutland: On *Abies alba* at Blokhus (6-8-65, 5-7-68, 15-7-68) and Brårup Plantation at Skive (24-5-67). Sealand: On *Abies* sp. at Rude Forest (22-9-17, M. Thomsen leg.) and Tisvilde (6-9-59, C. Bisgaard leg.).

228. *Cinara (Lachniella) costata* (Zetterstedt, 1828)

*Lachniella costata*: Börner 1952, p. 45, no. 37

*Cinara (Lachniella) costata*: Szelegiewicz 1968, p. 20

**Distribution**: Europe and North America. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark**: Jutland: On *Picea glauca* at Blokhus (4-8-63, 30-6-64, 6-8-65), on *P. sitchensis* at Oddense, Salling (15-8-65) and near Varde (29-6-59, the collection of the State Exper. Station, Lyngby), and gone astray from *Picea* at Blære, Himmerland (27-6-67). Sealand: On *Picea abies* at Grib Forest (17-10-65).

229. *Cinara (Todolachnus) pectinatae* (Nördl., 1880)

*Lachnus pichtae* Mordvilko, 1895

*Buchneria pectinatae*: Börner 1952, p. 41, no. 15

*Cinara (Todolachnus) pectinatae*: Szelegiewicz 1968, p. 15

**Distribution:** Europe. It is known from Sweden and Norway.

**Occurrence in Denmark:** Jutland: On *Abies alba* at Hune, Vendsyssel (12-8-60), Hammer Bakker (29-7-64), Legind Bjerge, Mors (26-9-56), coniferous plantation west of Viborg (2-5-57), Brassø near Silkeborg (12-7-60), and Vind south of Holstebro (5-9-68). Funen: On *Abies alba* at Hylkedam (28-5-57). Sealand: On *Abies* at Bøgeholm Lake (10-8-17, M. Thomsen leg. et det.).

Genus **TUBEROLACHNUS** Mordvilko, 1909

230. *Tuberolachnus salignus* (Gmel., 1788)

*Tuberolachnus salignus*: Börner 1952, p. 45, no. 38

**Distribution:** All over the world. It is known from Sweden and Norway.

**Occurrence in Denmark:** Jutland: On *Salix* sp. at Brønderslev (25-10-31, the collection of the State Exper. Station, Lyngby). The species is mentioned by Bovien & Thomsen (1950).

Genus **LACHNUS** Burmeister, 1835

231. *Lachnus (Lachnus) roboris* (Linné, 1758)

*Lachnus roboris*: Börner 1952, p. 46, no. 42

**Distribution:** Palaearctic. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Quercus* (*robur*, sp.) at Blokhush (29-7-60), Hammer Bakker, Vendsyssel (29-7-64), Lundby Krat south of Ålborg (29-7-68), Højris on Mors (10-7-60), Øster Assels, Mors (1944, Sigurd Nielsen coll.), Hvalpsund (27-8-66), Krabbesholm Forest at Skive (28-8-58, 28-9-58, 9-5-59, 13-5-59, 1-7-59), Estvadgård Plantation south of Skive (18-9-58), Fly south of Skive (26-9-68), Hald Lake at Viborg (27-8-64), Himmelbjerget (22-7-18, M. Thomsen leg. et det.), Nørre Feldborg Plantation (11-10-65), Ginneskov Krat (11-10-65), Femmøller, Mols (3-8-59, 8-8-59), and Auning, Djursland (17-7-68). Funen: On *Quercus robur* at Morud (10-7-58). Other islands: On *Quercus* sp. at Ulfshale on Møen (8-5-67, Anfred Pedersen coll.).

The species is mentioned by Boas (1923) and Heie (1965).

232. *Lachnus (Schizodryobius) exsiccator* Altum, 1882

*Schizodryobius pallipes* (Hartig, 1841): Börner 1952, p. 46, no. 40



*Lachnus* (*Schizodryobius*) *pallipes*: Szelegiewicz 1968, p. 23

*Lachnus excicator*: Ossiannilsson 1969, p. 38

**Distribution**: Europe, USSR. It is known from Sweden.

**Occurrence in Denmark**: Jutland: On *Fagus silvatica* at Femmøller, Mols (7-8-59) and Lundby Bakker south of Ålborg (10-7-68).

This species and its harmful effects on beech is mentioned by Boas (1923, p. 646), who says that it is common in Denmark.

233. *Lachnus* (*Schizodryobius*) *longirostris* (Mordvilko, 1901)

*Schizodryobius longirostris*: Börner 1952, p. 46, no. 41

*Lachnus* (*Schizodryobius*) *longirostris*: Szelegiewicz 1968, p. 23

**Distribution**: Europe, USSR. It is known from Sweden.

**Occurrence in Denmark**: Jutland: On *Quercus robur* at Hammer Bakker, Vendsyssel (1-8-68).

Genus **STOMAPHIS** Walker, 1870

234. *Stomaphis quercus* (Linné, 1758)

*Stomaphis quercus*: Börner 1952, p. 47, no. 46

**Distribution**: Europe. It is known from Sweden and Norway.

**Occurrence in Denmark**: Sealand: On *Quercus robur* at Tikøb (17-10-65, 2-6-66, J. Reitzel and Heie leg.). The species was first recorded from Denmark by Reitzel (1965) from the same locality (11-6-65).

Genus **PROTRAMA** Baker, 1920

235. *Protrama flavescens* (Koch, 1856)

*Protrama ranunculi*: Börner 1952, partim, p. 48, no. 50

*Protrama flavescens*: Eastop 1953, p. 391

**Distribution**: Germany, England, USSR, Poland, Italy, Sweden, and Denmark.

**Occurrence in Denmark**: Funen: On *Artemisia vulgaris* east of Fåborg (13-7-57).

236. *Protrama ranunculi* (del Guercio, 1909)

*Protrama ranunculi*: Börner 1952, partim, p. 48, no. 50

*Protrama ranunculi*: Eastop 1953, p. 395

**Distribution**: England, Italy, Netherlands, Germany, Poland, Sweden, Norway, Finland, and Denmark.

**Occurrence in Denmark**: Jutland: Yellow Moericke-trays at Tylstrup, Vendsyssel (20-7-56), Borris (3-8-56), Jyndevad

(10-8-56), Rønhave, Als (21-6-57), and Spangsbjerg at Esbjerg (1-8-58). Funen: Yellow tray at Årslev (22-6-56, 27-7-56). Sealand: Yellow trays at Lyngby (26-8-55) and Ørslev at Ringsted (July and August, 1956). Bornholm: On *Ranunculus bulbosus* at Hammeren (June 1956).

Genus **NEOTRAMA** Baker, 1920

237. *Neotrama caudata* (del Guercio, 1909)

*Protrama caudata*: Börner 1952, p. 48, no. 52

*Protrama (Neotrama) flavescens*: Börner 1952, p. 48, no. 53

*Neotrama caudata*: Eastop 1953, p. 399

**Distribution**: USSR, Germany, Italy, France, England, Netherlands, and Denmark.

**Occurrence in Denmark**: Jutland: On *Hypochoeris radicata* at Femmøller, Mols (5-8-59, 5-7-60). These finds are mentioned by Heie (1965).

Genus **TRAMA** v. Heyden, 1837

238. *Trama rara* Mordvilko, 1908

*Trama rara*: Börner 1952, p. 49, no. 56; Eastop 1953, p. 403

**Distribution**: USSR, Germany, Czechoslovakia, Netherlands, England, Poland, Denmark, Japan, and North America.

**Occurrence in Denmark**: Jutland: On *Taraxacum* (cultivated) at Odder (October 1958, M. Clausen coll.). Sealand: On *Taraxacum* at Holte (22-8-49).

239. *Trama troglodytes* v. Heyden, 1837

*Trama troglodytes* + *T. centaureae* + *T. mordvilkoii* + *T. pubescens* + *T. longitarsis*: Börner 1952, p. 49, nos. 55, 57, 58, 59, and 60

*Trama troglodytes*: Eastop 1953, p. 405

**Distribution**: Europe, USSR. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark**: Jutland: On *Achillea millefolium* at Store Vildmose (26-7-68) and Femmøller, Mols (5-7-60), on *Matricaria chamomilla* at Resen, Skive (18-7-57), on *Leontodon autumnalis* at Lyby, Salling (23-6-68), and on *Hieracium pilosella* at Henne (1-7-58). Sealand: On *Carduus* at Jonstrup (23-8-63, J. Reitzel leg.), on *Artemisia vulgaris* at Benløse near Ringsted (14-8-58), and on *Matricaria inodora* at Marbjerg Forest near Næstved (14-8-58, Børge Petersen leg.). Other Islands: On *Artemisia vulgaris* at Brundby on Samsø (10-8-58) and on *Tanacetum vulgare* at Rudkøbing on Langeland (5-7-57).

Genus **PERIPHYLLUS** v. d. Hoeven, 1863

240. *Periphyllus aceris* (Linné, 1758) subsp. *acericola* (Walker, 1848)

*Chaetophoria acericola*: Börner 1952, p. 50, no. 63

**Distribution**: Europe. It is known from Norway and Sweden.

**Occurrence in Denmark**: Jutland: On *Acer pseudo-platanus* at Lønstrup (24-7-60), Legind Bjerger, Mors (4-6-59, 30-5-60), Femmøller, Mols (4-7-60, 8-9-60), and on *Acer* sp. at Råsted, western Jutland (10-9-67). Funen: On *Acer pseudoplatanus* at Morud (10-7-58). Other islands: On *Acer pseudoplatanus* at Vesterø on Læsø (9-8-57) and Nordby on Samsø (11-8-58).

The finds belong to subsp. *acericola*, which lives on *Acer pseudo-platanus*, whereas *aceris* s. str. (= *xanthomelas* Koch, 1854) lives on *A. platanoides*.

241. *Periphyllus lyropictus* (Kessler, 1886)

*Periphyllus lyropictus*: Theobald 1929, p. 42

*Chaetophorella aceris*: Börner 1952, p. 50, no. 66

**Distribution**: Europe, USSR, and North America. It is known from Sweden and Finland.

**Occurrence in Denmark**: Jutland: On *Acer pseudo-platanus* at Århus (7-9-60) and on *Alnus glutinosa* (1 alate individual; this is not a host) east of Struer (25-7-57). The Danish Islands: On *Acer pseudo-platanus* at Onsbjerg on Samsø (13-8-58).

242. *Periphyllus testudinaceus* (Ferne, 1852)

*Periphyllus testudinatus* (Thornton): Theobald 1929, p. 37

*Periphyllus villosus* (Hartig): Börner 1952, p. 51, no. 67

*Periphyllus testudinacea* (Ferne): Essig & Abernathy 1952, p. 121

**Distribution**: Holarctic. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark**: Jutland: On *Acer pseudo-platanus* at Komdrup, Himmerland (4-10-57), Tingbæk, Himmerland (19-6-58), Skørping (21-6-58), Krabbesholm Forest at Skive (27-10-57, 22-4-59), Fur (22-6-58), Legind Bjerger on Mors (3-6-58, 4-6-59), Lundø near Skive (7-7-59), Avnsbjerg (13-8-59), and Arild near Løgumkloster (5-7-58), on *Acer platanoides* at Krabbesholm Forest (27-10-57), Kjellerup (14-6-59), and Århus (14-5-59), on *Acer campestre* at Løvel, Himmerland (16-6-57), Rebild (27-5-59), Skive (several finds), Brårup Plantation at Skive (6-5-59), Fur

(22-6-58), Grinderslev, Salling (11-7-58, 11-8-59), Kongenshus (16-10-60), Kjellerup (25-10-64), Lemvig (4-7-59), Studsgård (9-7-59), and Kolding (1-6-64), on *Acer pennsylvanicus* at Studsgård (18-6-64), and in yellow Moericke-trays at Tylstrup, Vendsyssel (1-6-56) and Hornum, Himmerland (31-5-57). Funen: On *Acer platanoides* at Morud (20-10-59) and Hofmangave near Otterup (28-5-65), on *A. campestre* at Odense (14-5-58), and in yellow tray at Årslev (1-6-56). Sealand: On *Acer pseudoplatanus* at Holte (21-5-50) and Gentofte (26-5-68, H. Enghoff coll.), on *A. campestre* at Forsthaven (7-7-18, M. Thomsen leg.), Bagsværd (12-7-65), Dragør (19-10-57), and Kongelunden, Amager (in the collection of the State Exper. Station, Lyngby), and on *Acer* sp. in Copenhagen (6-11-17, M. Thomsen leg.). Other islands: On *Cornus* (1 alate individual; this is not a host) at Sophiehøj, Lolland (20-5-53, Børge Petersen coll.) and on *Acer platanoides* at Klemensker, Bornholm (28-5-64, J. Reitzel leg.).

#### Genus **CHAITOPHORUS** Koch, 1854

##### 243. *Chaitophorus beuthani* (Börner, 1950)

*Tranaphis beuthani*: Börner 1952, p. 53, no. 84

*Chaitophorus beuthani*: Szelegiewicz 1961, p. 245

**Distribution**: Germany, Austria, Poland, England, Sweden, and Denmark.

**Occurrence in Denmark**: On *Salix viminalis* and other *Salix* spp. with narrow leaves in Jutland at V. Vandet, Thy (14-10-64), Skive (14-9-58), Højslev at Skive (3-8-57), and Højer (8-8-56), on Funen at Fåborg (13-7-57), and on Læsø at Hventgård (10-8-57).

##### 244. *Chaitophorus capreae* (Mosley, 1841)

*Tranaphis capreae*: Börner 1952, p. 52, no. 83

*Chaitophorus capreae*: Szelegiewicz 1961, p. 249

**Distribution**: Europe and Asia. It is known from Sweden and Norway.

**Occurrence in Denmark**: On *Salix* (*caprea*, *aurita*, *cinerea*; species with broad leaves) in Jutland at Blokhus (24-7-65), Store Vildmose (5-10-57), Ålestrup, Himmerland (28-8-68), Harrevig, Salling (15-10-56), Sundsøre (14-8-68), Haderup (1-10-59), and Femmøller (5-7-60), on Sealand at Tikøb (17-10-65), and on the island of Strynø south of Funen (7-7-57).

245. *Chaitophorus leucomelas* (Koch, 1854)

*Eichochaitophorus versicolor* (Koch): Börner 1952, p. 52, no. 77

*Chaitophorus leucomelas*: Szelegiewicz 1961, p. 254

**Distribution:** Europe and Asia. It is known from Sweden and Norway.

**Occurrence in Denmark:** Jutland: On *Populus italica* at Skive (9-9-56 and — in galls of *Pemphigus spirothecae* Pass. — 12-9-56). Sealand: On *Populus* sp. at Forsthaven near Copenhagen (7-7-18, M. Thomsen leg. et det.) and Lammefjord (24-9-59, J. Jørgensen leg.). Other islands: On *Populus* sp. at Hventgård on Læsø (7-8-57).

246. *Chaitophorus parvus* Hille Ris Lambers, 1935

*Pseudomicrella parva*: Börner 1952, p. 52, no. 75

*Chaitophorus parvus*: Szelegiewicz 1961, p. 276

**Distribution:** Outside Denmark only in Poland and Netherlands.

**Occurrence in Denmark:** Jutland: On *Salix repens* in the dunes at Blokhuis (2-7-64, 30-6-69). The Danish islands: On *Salix repens* in the dunes at Danzigmand on Læsø (8-8-57).

247. *Chaitophorus populeti* (Panzer, 1805)

*Chaitophorus populeti*: Börner 1952, p. 53, no. 81

*Chaitophorus populialbae* (B. d. Fonsc.): Börner 1952, p. 53, no. 82

*Chaitophorus betulinus* (v. d. Goot): Börner & Heinze 1957, p. 70

*Chaitophorus populialbae*: Börner & Heinze 1957, p. 70

*Chaitophorus populeti*: Stroyan 1957, p. 338; Szelegiewicz 1961, p. 278

**Distribution:** Europe, Asia, and North America. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Populus tremula* at Madum Lake, Himmerland (13-6-58), Lundby Bakker south of Ålborg (29-7-68), Legind Bjerge, Mors (4-6-59), and Femmøller, Mols (6-7-60). Funen: On *Populus alba* at Fåborg (16-7-57). Sealand: On *Populus alba* at Luknam at Holte (15-8-57, 16-8-58). Other islands: On *P. alba* at Frellesvig on Langeland (6-7-57).

248. *Chaitophorus populialbae* (Boyer d. Fonscolombe, 1841).

*Eichochaitophorus albus* (Mordv.): Börner 1952, p. 52, no. 78

*Chaitophorus albus*: Stroyan 1957, p. 338

*Chaitophorus populi-albae*: Szelegiewicz 1961, p. 285

**Distribution:** Europe, Asia, and North Africa. It is known from Sweden and Norway.

Occurrence in Denmark: Jutland: On *Populus tremula* at Madum Lake in Himmerland (29-5-59).

249. *Chaitophorus salicti* (Schrank, 1801)

*Pseudomicrella salicti*: Börner 1952, p. 52, no. 72

*Chaitophorus salicti*: Stroyan 1957, p. 340; Szelegiewicz 1961, p. 295

Distribution: Europe and Asia. It is known from Sweden and Finland.

Occurrence in Denmark: Jutland: On *Salix cinerea* at Madum Lake in Himmerland (2-9-58).

250. *Chaitophorus tremulae* (Koch, 1854)

*Eichochoaitophorus tremulae*: Börner 1952, p. 52, no. 76

*Eichochoaitophorus populeti* (Panz.): Börner 1952, p. 220

*Chaitophorus tremulae*: Stroyan 1957, p. 338; Szelegiewicz 1961, p. 300

Distribution: Europe and Asia. It is known from Sweden, Norway, and Finland.

Occurrence in Denmark: Jutland: On *Populus tremula* at Strandby at Frederikshavn (19-8-56), Madum Lake, Himmerland (14-9-60), north of Brande (20-8-67), Lyngballe Forest near Århus (6-10-60), Femmøller, Mols (8-8-59), and Fuglsø, Mols (14-9-62).

Genus **LAINGIA** Theobald, 1922

251. *Laingia psammae* Theobald, 1922

*Laingia psammae*: Börner 1952, p. 53, no. 85

Distribution: Europe. It is known from Sweden and Finland.

Occurrence in Denmark: Jutland: On *Ammophila (Psamma) arenaria* at Blokhus (several finds, July-September 1959-69) and Hune, Vendsyssel (5-8-68), and at Sønder Lem Vig, Salling (19-8-69).

Genus **ATHEROIDES** Haliday, 1839

252. *Atheroides serrulatus* Haliday, 1838

*Atheroides serrulatus*: Börner 1952, p. 54, no. 88

Distribution: Europe. It is known from Sweden and Norway.

Occurrence in Denmark: Jutland: Collected by sweeping (it lives on grasses) at Skiveren, Vendsyssel (28-7-64),

Blokhus (4-8-63, 14-7-64, 17-7-65), Madum Lake in Himmerland (5-9-58, 28-5-59), Skive (6-7-63), Hanbjerg near Struer (16-7-59), and Femmøller, Mols (7-8-59).

Genus **SIPHA** Passerini, 1860

253. *Sipha (Sipha) glyceriae* (Kaltenbach, 1843)

*Sipha glyceriae*: Börner 1952, p. 54, no. 90

**Distribution**: Europe and Asia. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark**: Jutland: On *Glyceria* at Blokhus (17-7-65), on *Phleum* at Oddense, Salling (13-7-63), on *Poa* at Krabbesholm Forest at Skive (8-7-59), and collected by sweeping at Skive (6-7-63) and Kongsø near Bryrup (11-7-58). Sealand: Collected by sweeping at Tikøb (17-10-65).

254. *Sipha (Rungisia) kurdjumovi* Mordvilko, 1921

*Sipha agropyrella* Hille Ris Lambers, 1939, p. 82

*Rungisia kurdjumovi*: Börner 1952, p. 55, no. 93

*Sipha (Rungisia) kurdjumovi*: Szelegiewicz 1968, p. 71

**Distribution**: Europe, Asia, and North America. It is known from Sweden and Finland.

**Occurrence in Denmark**: Jutland: On *Agropyrum repens* at Vodskov in Vendsyssel (18-8-62) and at Egeris, Skive (23-8-62).

255. *Sipha (Rungisia) arenarii* Mordvilko, 1921

*Rungisia arenarii*: Börner 1952, p. 55, no. 94

*Sipha (Rungisia) arenarii*: Szelegiewicz 1968, p. 71

**Distribution**: USSR, Poland, Sweden, Norway, Finland, and Denmark.

**Occurrence in Denmark**: Sealand: On *Elymus arenarius* at Humlebæk (6-10-66, J. Reitzel leg., D. Hille Ris Lambers det.).

Genus **CHAETOSIPHELLA** Hille Ris Lambers, 1939

256. *Chaetosiphella berlesei* (del Guercio, 1905)

*Chaetosiphella berlesei*: Hille Ris Lambers 1939, p. 84; Börner 1952, p. 55, no. 97; Stroyan 1955, p. 326

**Distribution**: Netherlands, Belgium, Germany, Poland, England, Italy, Sweden, Norway, Finland, and Denmark.

**Occurrence in Denmark**: Jutland: Collected by

sweeping in the coniferous plantation in the dunes at Blokhus (9-8-63). The species lives on *Festuca* and *Aira*.

Genus **DREPANOSIPHUM** Koch, 1855

257. *Drepanosiphum acerinum* (Walker, 1848)

*Drepanosiphon gracilis* Börner, 1940; Börner 1952, p. 59, no. 115  
*Drepanosiphum acerinum*: Hille Ris Lambers 1963

**Distribution**: England, Netherlands, Germany, Poland, Czechoslovakia, and Denmark.

**Occurrence in Denmark**: Jutland: On *Acer pseudo-platanus* at Ålborg (12-7-68). The find consists of one immature specimen, only. The identification with *acerinum* (= *gracilis* Börner) is based on one character which by Börner is said to be diagnostic: "Spinal and pleural hairs of young larva very small from vertex of head to 4th and 5th abdominal segments".

258. *Drepanosiphum aceris* Koch, 1855

*Drepanosiphon acerinus* (Walker): Börner 1952, p. 59, no. 113  
*Drepanosiphum aceris*: Hille Ris Lambers 1963

**Distribution**: Europe and Asia. It is known from Sweden.

**Occurrence in Denmark**: Jutland: On *Acer campestre* at Skive (16-10-56, 4-8-57, 4-5-59), Rebild (29-6-60), Kjellerup (25-10-64), Kolding (12-9-68), and Løgumkloster (6-9-68), on *Acer pseudoplatanus* (1 alate specimen; this is not a host) at Århus (7-9-60), and in yellow Moericke-tray at Borris (20-7-56).

259. *Drepanosiphum platanoidis* (Schrank, 1801)

*Drepanosiphon platanoidis*: Börner 1952, p. 59, no. 114

**Distribution**: Europe, Asia, and North America. It is known from Sweden, Norway, Finland, and the Faroes.

**Occurrence in Denmark**: Very common in all parts of the country from May till October on *Acer pseudoplatanus*. Collected or only observed at the following localities:

Jutland: Hammer Bakker and Tylstrup in Vendsyssel, Ålborg, Komdrup and Hornum in Himmerland, Skørping, Bejstrup in Han Herred, V. Vandet in Thy, Frøslev and Legind Bjerger on Mors, Fur, Grinderslev and Oddense in Salling, Skive, Krabbesholm Forest at Skive, Lundø near Skive, Lemvig, Mønsted, Skjelhøje, Råsted, Kjellerup, Ring Forest south of Brædstrup, Århus, Femmøller, Gjerrild, Borris, Kolding, Arrild near Løgumkloster, and Store Jydevad.



Funen: Strib, Odense, Hofmangave near Otterup, Årslev, and Svendborg.

Sealand: Hundested, Espergærde, Tokkekøb Hegn, Malmlose at Holte, Ny Himmelev at Roskilde, Ringsted, Ørslev, Næstved, and Skelskør.

Other islands: Nordby on Samsø, Tranekær on Langeland, and Marstal on Ærø.

**Genus SYMYDOBIUS** Mordvilko, 1894

260. *Symydobius oblongus* (v. Heyden, 1837)

*Symydobius oblongus*: Börner 1952, p. 56, no. 100

— *Symydobius piceus* (Börner): Börner 1952, p. 56, no. 101

**Distribution**: Europe and Asia. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark**: Common in all parts of the country from May till October on *Betula verrucosa* (= *pendula*) and *B. pubescens* (= *alba*). Jutland: Dannerhøj in Vendsyssel, Blokhus, Store Vildmose, Hammer Bakker, Oksholm Forest on Øland in Han Herred, Rold Forest, Madum Lake and Lundby Bakker in Himmerland, Legind Bjerger and Højris Forest on Mors, Skive, Krabbesholm Forest, Højslev at Skive, Tastum at Skive, Flyndersø and Hjerl Hede, Aulum, Kjellerup, Femmøller, Bryrup, Hampen, Juelsminde, Blåbjerg at Henne, and Store Jyndevad. Funen: Fåborg. Sealand: Tokkekøb Hegn and Marbjerg Forest near Næstved. Other islands: Kanehave and Brattingborg on Samsø.

**Genus CLETHROBIUS** Mordvilko, 1928

261. *Clethrobium comes* (Walker, 1848)

*Clethrobium comes*: Hille Ris Lambers 1947

*Betacallis gigantea* (Cholodk.): Börner 1952, p. 56, no. 102

*Betacallis comes*: Börner 1952, p. 56, no. 103

**Distribution**: Palaearctic. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark**: Jutland: On *Betula verrucosa* at Skive (20-5-59), Kjellerup (14-6-59), and Femmøller, Mols (7-7-60), on *Betula pubescens* at Blokhus (2-9-62), Legind Bjerger on Mors (8-10-62), and Addit Forest (12-5-59), and on *Alnus glutinosa* at Blokhus (24-7-65). Sealand: On *Betula papyracea* in Copenhagen (13-10-09, in the collection of the State Exper. Station, Lyngby).

Genus **EUCERAPHIS** Walker, 1870262. *Euceraphis punctipennis* (Zetterstedt, 1828)

*Euceraphis betulae* (Linné): Theobald 1927, p. 372

*Euceraphis punctipennis*: Börner 1952, p. 57, no. 104

**Distribution:** Holarctic. It is known from Sweden, Norway, Finland, Iceland, and Greenland.

**Occurrence in Denmark:** Very common in all parts of the country from April till October on *Betula verrucosa* and *B. pubescens*. Observed or collected at the following localities:

Jutland: Frederikshavn, Tylstrup, Dannerhøj, Blokhus, Store Vildmose, Hammer Bakker, Vilsbøl Plantation in Thy, Oksholm Forest on Øland, Nibe, Ålborg, Lundby Bakker south of Ålborg, Rold Forest, Rebild, Store Økssø, Madum Lake, Villestrup, Hjedebæk, Skivum, Borup at Skals, Sønderup, Hvidsten, Tvede, Randers, Legind Bjerge on Mors, Fur, Jebjerg, Eskær, Sundsøre, Ø. Lyby, Spøttrup, Kås at Lihme, Dølby near Skive, Skive, Krabbesholm Forest, Tastum and Fly south of Skive, Dalgas Plantation and other localities between Skive and Viborg, Flyndersø, Havredal, Kongenshus, Handbjerg and Tingholt Mølle near Struer, Skørsø at Vinderup, Aulum, Idum near Holstebro, Blåbjerg at Henne, Kjellerup, Brunshåb near Viborg, Ejer Bavnehøj, Brassø at Silkeborg, Bryrup, Ring Forest south of Brædstrup, Århus, Femmøller, Stubbe Lake and Ulstrup in Djursland, Fuglsø, Bygholm at Horsens, Gødding at Randbøl, Borris, Sønder Omme, Kolding, Rømø, and Jyndeved.

Funen: Kongebro at Lillebælt, Hylkedam, Årup, Fåborg, Odense, Årslev, Nyborg, and Holckenhavn.

Sealand: Grib Lake, Espergærde, Mørdrup, Holte, Bagsværd, Rungsted, Copenhagen, Marbjerg Forest near Næstved, south of Næstved.

Other islands: Hventgård on Læsø, Brundby on Samsø, Nykøbing on Falster, and Bodilskirke on Bornholm.

Genus **PHYLLAPHIS** Koch, 1856263. *Phyllaphis fagi* (Linné, 1767)

*Phyllaphis fagi*: Börner 1952, p. 57, no. 106

**Distribution:** Nearly all over the world. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Very common on *Fagus silvatica* from May till November.

Jutland: Hammer Bakker in Vendsyssel, Vilsbøl Plantation in Thy, Ålborg, Rold Forest, Randers, Legind Bjerge on Mors, Jeshjerg, Skive, Krabbesholm Forest, Estvad south of Skive, Aulum, Brassø at Silkeborg, Århus, Addit Forest, Ring Forest south of Brædstrup, Hampen, Vandel, Grejsdal, Varde, Vedsted, Kolding, and Skamlingsbanken.

Funen: Strib, Hindsgavl, Hofmansgave near Otterup, Svanninge Bakker, Korinth, Fåborg, and Svendborg.

Sealand: Grib Forest, Tokkekøb Hegn, Holte, Lyngby, and Jystrup south of Roskilde.

Other islands: Langeland, Turø, and Avernakø.

It is mentioned as a common pest to beech in Denmark by Boas (1923) and Bovien & Thomsen (1945). Henriksen (1944, p. 69) gives localities on Sealand (Præstevangen, Tisvilde Hegn, and Sorø) and Funen (Klingstrup). It is recorded from Frederiksdal near Naskov on Lolland by Birger Jensen (1962). Danish name: Bøgebladlus.

#### Genus *CALLIPTERINELLA* van der Goot, 1913

##### 264. *Callipterinella callipterus* (Hartig, 1841)

*Calaphis callipterus*: Börner 1952, p. 58, no. 108

*Procalaphis callipterus*: Quednau 1954, p. 23

*Callipterinella calliptera*: Szelegiewicz 1968, p. 49

**Distribution:** Europe, Asia, and North America. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Betula verrucosa* at Blokhus (several finds, May till October), Rebild (17-9-60), Fly south of Skive (20-9-62), Hatnæs at Silkeborg (9-10-60), Femmøller, Mols (4-7-60, 10-9-60), Ahl Strand at Ebeltoft (6-8-59), and Juelsminde (28-6-59) and on *Betula pubescens* at Blokhus (2-9-62, 20-10-62) and Skive (10-10-60, 15-10-62). Sealand: On *Betula verrucosa* at Holte (22-10-60).

##### 265. *Callipterinella tuberculata* (v. Heyden, 1837)

*Calaphis tuberculata*: Börner 1952, p. 58, no. 109

*Procalaphis tuberculata*: Quednau 1954, p. 23

*Callipterinella tuberculata*: Szelegiewicz 1968, p. 50

**Distribution:** Palaearctic. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Sealand: On *Betula* sp. at Charlottenlund at Copenhagen (8-7-50). It is remarkable that this

species never has been found in Jutland where intensive investigations of birch aphids have gone on for years.

Genus **CALAPHIS** Walsh, 1862

266. *Calaphis betulicola* (Kaltenbach, 1843)

*Kallistaphis betulicola* (partim): Börner 1952, p. 58, no. 110

*Kallistaphis betulicola*: Stroyan 1957, p. 341

**Distribution:** Europe. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Betula verrucosa* at Blokhus (25-7-61) and on *B. pubescens* at Juelsminde (28-6-59).

267. *Calaphis flava* Mordvilko, 1928

*Kallistaphis betulicola* (partim): Börner 1952, p. 58, no. 110

*Kallistaphis basalis* Stroyan, 1957, p. 343

*Kallistaphis flava*: Szelegiewicz 1968, p. 50

**Distribution:** Europe, Asia, and Australia. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Common on *Betula* from April till November.

Jutland: On *Betula pubescens* at Blokhus, Hune, Øland, Vilsbøl Plantation in Thy, Nibe, Sønderup in Himmerland, Rold Forest, Madum Lake, Blåkilde at Villestrup, Møldrup in Himmerland, Tvede, Randers, Rom near Lemvig, Højris and Legind Bjerger on Mors, Jebjerg and Dølby in Salling, Kås at Lihme, Skive, Krabesholm Forest, Dalgas Plantation between Skive and Viborg, Hvidemose at Rønbjerg, Vridsted at Karup Å, Havredal, Kjellerup, Avnsbjerg, Aulum, Simmelkjær north of Herning, Studsgård, Brassø at Silkeborg, Bryrup, Hampen, Lyngballe Forest near Århus, Femmøller, Addit Forest, Skanderborg, Blåbjerg at Henne, Sækbæk north of Varde, Bramminge, and Rømø and on *Betula verrucosa* at Dannerhøj in Vendsyssel, Madum Lake in Himmerland, Jebjerg, Højslev at Skive, Haderup, Aulum, Brassø at Silkeborg, and Rømø.

Funen: On *Betula pubescens* at Fåborg and in yellow tray at Årslev.

Sealand: On *Betula* spp. in Copenhagen and in yellow tray at Ørslev near Ringsted.

Other islands: On *Betula pubescens* on Samsø (Dyret, Onsbjerg,

and Langemark Strand) and Falster (Nykøbing) and on *B. verrucosa* on Samsø (Mårup).

Genus **BETULAPHIS** Glendenning, 1926

268. *Betulaphis brevipilosa* Börner, 1940

*Betulaphis brevipilosa* Börner, 1940, p. 2

*Betulaphis quadrituberculata* subsp. *brevipilosa*: Börner 1952, p. 58

**Distribution:** Europe. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Common on *Betula verrucosa*. Jutland: Frederikshavn (6-8-62), Dannerhøj in Vendsyssel (22-9-58), Blokhus (15-7-60, 13-10-60), Ålborg (11-10-59), Madum Lake in Himmerland (29-5-59), Rebild (16-7-62), Randers (3-7-60), Skive (several finds), Tastum at Skive (26-9-59), Aulum (9-7-59), Femmøller, Mols (8-8-59), Fuglsø (15-9-62), and Juelsminde (28-6-59). Funen: Odense (20-10-59). Sealand: Mørdrup near Espergærde (21-10-60), Holte (several finds), and Copenhagen (13-7-18, M. Thomsen leg.). Other islands: Dyret on Samsø (9-8-58), Brundby on Samsø (5-6-61), and Nykøbing on Falster (16-8-57).

269. *Betulaphis quadrituberculata* (Kaltenbach, 1843)

*Betulaphis quadrituberculata* (partim): Börner 1952, p. 57, no. 107

*Betulaphis quadrituberculata*: Börner & Heinze 1957, p. 79

**Distribution:** Holarctic. It is known from Sweden, Norway, Finland, and Iceland.

**Occurrence in Denmark:** Very common on *Betula pubescens* and *B. verrucosa* from April till October. Jutland: Blokhus, Store Vildmose, Hune in Vendsyssel, Dannerhøj in Vendsyssel, Oksholm Forest on Øland, Vilsbøl Plantation in Thy, Sønderup in Himmerland, Rebild, Madum Lake, Rold Forest, Borup at Skals, Hvidsten, Tvede at Randers Fjord, Højris and Legind Bjerger on Mors, Grynderup and Jungetøre in Salling, Skive, Krabesholm Forest, Brårup and Fly at Skive, Vridsted, Flyndersø, Dalgas Plantation between Skive and Viborg, Skørsø between Skive and Vinderup, Haderup, Simmelkjær, Kjellerup, Brassø at Silkeborg, Studsgård, Bryrup, Addit Forest, Lyngballe Forest, Aulum, and Femmøller. Funen: Fåborg and Nyborg. Sealand: Holte and Bagsværd. Other islands: Læsø (Hventgård), Samsø (Dyret, Onsbjerg, Brundby), and Langeland.

Genus **CALLAPHIS** Walker, 1870270. *Callaphis juglandis* (Goetze, 1778)

*Callaphis juglandis*: Börner 1952, p. 60, no. 117

**Distribution**: Europe, Asia, and North America. It is known from Sweden.

**Occurrence in Denmark**: Jutland: On *Juglans regia* at Hvidsten (13-7-59). Sealand: On *Juglans regia* at Holte (16-8-58), Lyngby (30-7-64, J. Reitzel leg. et det.), and Frederiksberg (July 1957, Røpke coll.).

Genus **CHROMAPHIS** Walker, 1870271. *Chromaphis juglandicola* (Kaltenbach, 1843)

*Chromaphis juglandicola*: Börner 1952, p. 60, no. 118

**Distribution**: Europe, Asia, and North America. It is known from Sweden.

**Occurrence in Denmark**: Sealand: Caught in yellow *Moericke-tray* at Lyngby (11-7-58, V. F. Eastop leg. et det.) and collected on *Juglans regia* at Lyngby (9-6-64, J. Reitzel leg. et det.).

Genus **EUCALLIPTERUS** Schouteden, 1906272. *Eucallipterus tiliae* (Linné, 1758)

*Eucallipterus tiliae*: Börner 1952, p. 60, no. 121

**Distribution**: Nearly all over the world. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark**: Very common on *Tilia* in all parts of the country from spring till autumn.

Jutland: Hjørring (10-8-60), Brønderslev (2-8-60), Legind Bjerger on Mors (3-6-59), Grinderslev in Salling (14-8-68), Skive (6-5-59, 20-5-59, 24-6-69), Estvad south of Skive (17-6-59), Randers (7-6-67), Kjellerup (25-10-64), Studsgård (9-7-59), Varde (29-8-68), Kolding (12-9-68), Løgumkloster (29-8-68), Rømø (5-7-58), and Tønder (5-9-68).

Funen: Svendborg (12-7-57).

Sealand: Rungsted (1-6-66), Copenhagen (23-9-17 and 29-8-19 (M. Thomsen leg. et det.), 12-6-69), Dragør on Amager (19-10-57), and — in yellow *Moericke-trays* — at Lyngby (11-7-58) and Ørslev near Ringsted (29-6-56, 20-7-56, 27-7-56).

Other islands: Onsbjerg and Brundby on Samsø (10-8-58) and Stoense on Langeland (6-7-57).

Genus **MYZOCALLIS** Passerini, 1860273. *Myzocallis carpini* (Koch, 1855)

*Myzocallis carpini*: Börner 1952, p. 61, no. 123

**Distribution**: Europe, USSR. It is known from Sweden and Norway.

**Occurrence in Denmark**: On *Carpinus betulus* in Jutland at Ålborg (26-6-69), Skive (30-6-60), Herning (19-6-69), Studsgård (9-7-59), and Vedsted near Haderslev (5-7-58), on Funen at Fåborg (16-7-57, 6-7-58), and on Amager at Dragør (19-10-65).

274. *Myzocallis castanicola* Baker, 1917

*Myzocallis castanicola*: Theobald 1927, p. 338; Börner 1952, p. 61, no. 125

*Myzocallis* (*Agrioaphis*) *castanicola*: Richards 1965, p. 35

**Distribution**: Europe and North America. It is known from Sweden.

**Occurrence in Denmark**: Sealand: On rape at Dyrehavegård near Copenhagen (15-7-62, J. Reitzel leg.), one alate specimen, only, gone astray. The host plants are *Quercus* and *Castanea*.

275. *Myzocallis coryli* (Goetze, 1778)

*Myzocallis coryli*: Börner 1952, p. 61, no. 122

**Distribution**: Europe and North America. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark**: Very common on *Corylus avellana* from May till October. It has been collected or observed at the following localities:

Jutland: Tolne, Flauenskjold near Sæby, Hammer Bakker in Vendsyssel, Fosdalen in Han Herred, Oksholm Forest on Øland, Lundby Krat south of Ålborg, Skørping, Randers, Fur, Lyby and Jungetøre in Salling, Kås at Lihme, Krabbesholm Forest and Estvad at Skive, Avnsbjerg, Lyngballe Forest, Århus, Femmøller, Studsgård, Gesten Forest near Kolding, and Tavlov between Kolding and Fredericia.

Funen: Kongebro at Lillebælt, Årup, Brenderup, Fåborg, Årslev, Gerskov north of Odense, Holckenhavn, and Bovense north of Nyborg.

Sealand: Espergærde, Holte, Bagsværd, and Copenhagen.

Other islands: Samsø (Ballebjerg), Turø, and Lolland (Sophiehøj at Rødby).

276. *Myzocallis myricae* (Kaltenbach, 1843)

*Myzocallis myricae*: Börner 1952, p. 61, no. 124

**Distribution**: Europe. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark**: On *Myrica gale* in Jutland at Blokhush (several finds in July and August 1964—69), Svinkløv (1-8-62), Trend in Himmerland (21-7-67), Harrevig in Salling (4-9-66), west of Jebbjerg in Salling (26-7-58), Kongsø near Bryrup (11-7-58), and Femmøller in Djursland (4-8-59), and on Læsø at Hventgård (6-8-57). Caught in yellow Moericke-tray at Borris in Jutland (13-7-56).

Genus **TUBERCULOIDES** van der Goot, 1915

277. *Tuberculoides annulatus* (Hartig, 1841)

*Tuberculoides annulatus*: Börner 1952, p. 61, no. 128

**Distribution**: Nearly all over the world. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark**: Very common on *Quercus* (*robur*, sp.) in all parts of the country from spring till autumn. Collected or observed at the following localities:

Jutland: Near Råbjerg Mile, Blokhush, Hammer Bakker in Vendsyssel, Lundby Bakker south of Ålborg, Dokkedal, Muldbjerge, Rold Forest, Rebild, Hvalpsund, Højris on Mors, Jungetøre and Lyby in Salling, Skive, Krabbesholm Forest, Fly at Skive, Dalgas Plantation between Skive and Viborg, Brunshåb and Hald near Viborg, Kjellerup, Studsgård, Himmelbjerget, Bryrup, Lyngballe Forest, Århus, Femmøller in Djursland, Hampen, Borris, Kvong south of Tarm, Henne, Sækbæk north of Varde, Juelsminde, Tavlov between Fredericia and Kolding, Gesten Forest near Kolding, Bramminge, Løgumkloster, Store Jyndevad, and Tønder.

Funen: Svanninge Bakker, Fåborg, and Årslev.

Sealand: Nyrup Hegn near Espergærde, Tikøb, Tokkekøb Hegn, Lyngby, and Ørslev at Ringsted.

Other islands: Læsø, Samsø (Dyret), and Bornholm (Svaneke).

Genus **TUBERCULATUS** Mordvilko, 1894

278. *Tuberculatus querceus* (Kaltenbach, 1843)

*Tuberculatus querceus*: Börner 1952, p. 62, no. 131



**Distribution:** Europe, USSR. It is known from Sweden and Norway.

**Occurrence in Denmark:** On *Quercus robur* at Lyngballe Forest near Århus (21-7-59) and Krabbesholm Forest at Skive (19-8-65), both in Jutland.

Genus **PTEROCALLIS** Passerini, 1860

279. *Pterocallis albidus* Börner, 1940

*Pterocallis albida*: Börner 1952, p. 62, no. 134

**Distribution:** Europe, but not known from the Scandinavian Peninsula.

**Occurrence in Denmark:** In Jutland on *Alnus incana* at Sækbæk north of Varde (5-9-68).

280. *Pterocallis alni* (de Geer, 1773)

*Pterocallis alni*: Börner 1952, p. 62, no. 133

**Distribution:** Europe and North America. It is known from Sweden, Norway, and Finland.

**Occurrence in Denmark:** Jutland: On *Alnus glutinosa* at Blokhus (10-8-60, 24-7-65, 13-7-68), Hammer Bakker in Vendsyssel (14-8-63), Støvring Nørreskov near Randers Fjord (13-7-59), Højris on Mors (10-7-60), Højslev at Skive (19-7-58), Krabbesholm Forest (October 1956), Limbjerggård at Struer (25-7-57), Hinge Lake at Kjellerup (18-10-56), Femmøller, Mols (7-8-59), and Tønder (5-9-68). The Danish Islands: On *Alnus glutinosa* at Stoklund on Læsø (9-8-57).

281. *Pterocallis maculatus* (v. Heyden, 1837)

*Pterocallis maculata*: Börner 1952, p. 62, no. 132

**Distribution:** Europe and Asia. It is known from Sweden and Finland.

**Occurrence in Denmark:** Jutland: On *Alnus glutinosa* at Højslev near Skive (19-7-58; together with *Pt. alni*).

Genus **CTENOCALLIS** Klodnickij, 1924

282. *Ctenocallis setosus* (Kaltenbach, 1846)

*Oniscomyzus setosus*: Börner 1952, p. 62, no. 137

**Distribution:** Europe and North America. It is not known from Scandinavia.

**Occurrence in Denmark:** Jutland: On *Sarothamnus*

scoparius at Strandkjær, Femmøller, Mols (4-8-59). The find has been mentioned by Heie (1965).

Genus **THERIOAPHIS** Walker, 1870

283. *Therioaphis luteola* (Börner, 1949)

*Triphyllaphis luteola*: Börner 1952, p. 63, no. 138

*Therioaphis luteola*: Stroyan 1957, p. 35; Hille Ris Lambers & v. d. Bosch 1964, p. 23

**Distribution**: Netherlands, Germany, Austria, Poland, England, and Denmark.

**Occurrence in Denmark**: In yellow Moericke-trays on Funen at Årslev (10-8-56, 20-7-56) and on Sealand at Ørslev near Ringsted (17-8-56).

284. *Therioaphis ononidis* (Kaltenbach, 1846)

*Therioaphis ononidis*: Börner 1952, p. 63, no. 142; Hille Ris Lambers & v. d. Bosch 1964, p. 32

**Distribution**: Europe, West Asia. It is known from Sweden.

**Occurrence in Denmark**: Jutland: On *Ononis repens* at Ø. Lyby in Salling (22-7-57) and Femmøller, Mols (5-8-59). The Danish Islands: On *Ononis repens* on Avernakø (11-7-57).

285. *Therioaphis trifolii* (Monell, 1882)

*Pterocallidium maculatum* (Buckton), *P. propinquum* Börner, *P. lydiae* Börner: Börner 1952, p. 63, nos. 139, 140, 141

*Pterocallidium trifolii*: Quednau 1954, p. 35

*Therioaphis trifolii*: Hille Ris Lambers & v. d. Bosch 1964, p. 36

**Distribution**: Europe, Asia, North America, and Africa. It is known from Sweden and Norway.

**Occurrence in Denmark**: Jutland: On *Trifolium pratense* at Kjellerup (13-8-59) and Studsgård (9-7-59) and caught in yellow Moericke-trays at Tylstrup in Vendsyssel (6-7-56), Ødum between Århus and Randers (23-9-55), Studsgård (13-7-56), and Jyndeved (22-6-56). Sealand: On rape (this is not a host) at Dyrehavegård near Copenhagen (9-7-62, J. Reitzel leg.) and in yellow tray at Ørslev near Ringsted (3-8-56).

Genus **TRICHOCALLIS** Börner, 1930

286. *Trichocallis cyperi* (Walker, 1848)

*Thripsaphis cyperi*: Börner 1952, p. 64, no. 146

*Trichocallis caricis* (Mordv., 1908): Börner 1952, p. 64, no. 145

**Distribution:** Europe. It is known from Sweden, Norway, and Finland. *T. cyperi* subsp. *arctica* H.R.L., 1955, occurs in Greenland and Iceland (Hille Ris Lambers 1955).

**Occurrence in Denmark:** Jutland: On *Carex vesicaria* at Hald Lake near Viborg (27-8-64, 19-9-64).

Genus **ALLAPHIS** Mordvilko, 1921

287. *Allaphis verrucosa* (Gillette, 1917)

*Allaphis leporinae* (Börner, 1939): Börner 1952, p. 64, no. 148

*Allaphis verrucosa*: Szelegiewicz 1968, p. 60

**Distribution:** Europe and North America. It is known from the Faroes (Jørgensen 1932), Sweden, and Norway.

**Occurrence in Denmark:** Jutland: On *Carex goodenoughii* at Blokhus (4-8-63) and taken by sweeping at the same locality (10-8-63, Hille Ris Lambers det.).

Genus **SUBSALTUSAPHIS** Quednau, 1953

288. *Subsaltusaphis flava* (Hille Ris Lambers, 1939)

*Saltusaphis flava*: Börner 1952, p. 64, no. 154

**Distribution:** Europe. It is known from Sweden and Norway.

**Occurrence in Denmark:** Jutland: On *Carex goodenoughii* at Blokhus (4-8-63, 10-8-63, Hille Ris Lambers det.).

Genus **IZIPHYA** Nevsky, 1929

289. *Iziphya bufo* (Walker, 1848)

*Iziphya bufo*: Börner 1952, p. 65, no. 157

**Distribution:** Europe and Asia. It is known from Sweden.

**Occurrence in Denmark:** Jutland: On *Carex arena-ria* at Blokhus (7-8-63, 12-8-63). Sealand: On rape (one alate specimen, gone astray; this is not a host) at Dyrehavegård near Copenhagen (15-7-62, J. Reitzel leg.).

290. *Iziphya leegei* Börner, 1940

*Caricaphis leegei*: Börner 1952, p. 65, no. 160

**Distribution:** England, Netherlands, Germany, Sweden, Norway, and Denmark.

**Occurrence in Denmark:** Jutland: Collected by sweeping in a meadow at Skive (27-6-58).

## References

(continued from Entom. Medd. 37, 1969, p. 385)

- B o v i e n**, P., 1950: Skadedyr på havebrugsplanter. — Plantesygdomme i Danmark 1947. — Tidsskr. f. Planteavl 53: 219—223.
- E a s t o p**, V. F., 1953: A study of the Tramiini (Homoptera, Aphididae). — Trans. R. ent. Soc. Lond. 104: 385—413.
- E s s i g**, E. O. & **F. A b e r n a t h y**, 1952: The aphid genus *Periphyllus*. — Univ. of California Press.
- H i l l e R i s L a m b e r s**, D., 1939: On some Western European aphids. — Zool. Meded. 22: 79—119.
- , 1963: Note on *Drepanosiphum acerinum* (Walker, 1848). — The Entomologist 1963.
- & **R. v a n d e n B o s c h**, 1964: On the genus *Therioaphis* Walker, 1870, with descriptions of new species (Homoptera, Aphididae). — Zool. Verh., Leiden, no. 68, pp. 1—47.
- O s s i a n n i l s s o n**, F., 1969: Catalogus Insectorum Sueciae. Homoptera: Aphidoidea. — Opusc. Ent. 34: 35—72.
- P i n t e r a**, A., 1966: Revision of the genus *Cinara* Curt. (Aphidoidea, Lachnidae) in Middle Europe. — Acta entom. bohemoslovaca 63: 281—321.
- , 1968: Aphids from the subtribe *Schizolachnina* (Aphidoidea, Lachninae) in Middle Europe. — Ibid. 65: 100—111.
- Q u e d n a u**, W., 1954: Monographie der mitteleuropäischen Callaphididae (Zierläuse (Homoptera, Aphidina)) mit besonderer Berücksichtigung des ersten Jugendstadiums. — Mitt. Biol. Zentralanst. Land. u. Forstwirtschaft Berlin-Dahlem, Hft. 78: 1—72.
- R i c h a r d s**, W. R., 1965: The Callaphidini of Canada (Homoptera: Aphididae). — Mem. Ent. Soc. Canada 44: 1—149.
- S t r o y a n**, H. L. G., 1964: Notes on hitherto unrecorded or overlooked British aphid species. — Trans. R. ent. Soc. Lond. 116: 29—72.
- S z e l e g i e w i c z**, H., 1961: Die polnischen Arten der Gattung *Chaitophorus* Koch s. lat. (Homoptera, Aphididae). — Annales Zool., Warszawa, 19: 229—352.
- , 1962: Materialien zur Kenntnis der Blattläuse (Homoptera, Aphididae) Polens. I. Unterfamilie Lachninae. — Fragm. Faunistica, Warszawa, 10 (6): 63—98.
- , 1968: Mszyce, Aphidoidea. — Nr. 12 »Katalogu fauny Polski«, 21, 4. Warszawa, 316 pp.
- T h e o b a l d**, F. V., 1929: The Plant Lice or Aphididae of Great Britain. Vol. 3.
-