

Casebearers of the Baltic republics (Lepidoptera : Coleophoridae)

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Abstract. The data on the fauna of moths of the family Coleophoridae in three Baltic republics (Estonia, Latvia, Lithuania) are given. 133 species are recorded for this region (for Estonia 65, Latvia 122, Lithuania 105). Host plants of caterpillars are presented following the data of our investigations and literature. For each species the authors of the records and distribution of rare species are indicated.

Samenvatting. De Coleophoridae van de Baltische staten (Lepidoptera)
De faunistische gegevens betreffende de Coleophoridae uit Estland, Letland en Lithauwen worden meegedeeld. In het totaal worden 133 soorten vermeld (65 uit Estland, 122 uit Letland en 105 uit Lithauwen). Voedselplanten van de rupsen worden vermeld volgens onze eigen observaties of volgens gegevens uit de literatuur. Voor elke soort wordt aangegeven wie ze voor het behandelde gebied heeft waargenomen en van zeldzame soorten wordt de verspreiding besproken.

Résumé. Les Coleophoridae des États Baltes (Lepidoptera)
Les auteurs publient les renseignements faunistiques des Coleophoridae d'Estonie, de Lettonie et de Lithuanie. Au total, 133 espèces sont mentionnées, (65 d'Estonie, 122 de Lettonie et 105 de Lithuanie). Les plantes nourricières sont mentionnées sur base de nos observations ainsi que sur base de la littérature. Pour chaque espèce, le nom du récolteur est mentionné et la répartition géographique des espèces rares est publiée.

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This paper deals with the data on the fauna of moths of the family Coleophoridae in the three Baltic republics. The Coleophoridae fauna of this region is studied quite well though unevenly. In particular it concerns Estonia where over the last 20 years the investigations on Coleophoridae as well as on other Microlepidoptera were scanty. Here the species are presented according to A. VIVES-MORENO (1988).

History of the study of Coleophoridae in Estonia

W. NOLCKEN (1871) who studied in Estonia the Lepidoptera fauna from the Saaremaa Island has reported 44 species of Coleophoridae. However, taking into account the present-day systematics and after checking the surviving material of his collection this number of species has been reduced to 38. Later K. TEICH (1893) established that in the material of W. NOLCKEN there was also the species *Coleophora directella*. W. PETERSEN (1924) in his catalogue on the Estonian Lepidoptera added to the list 5 more species. In the works of A. KUUSIK (1962, 1967) there were published the data on 12 species of Estonian Coleophoridae.

After processing Coleophoridae in the collections of W. NOLCKEN and J. KENNELL, kept in the Zoological Museum of the Latvian State University, there were revealed 10 more species new to the Estonian fauna: *C. adjunctella*, *C. discordella*, *C. frischella*, *C. ibipennella*, *C. peribenanderi*, *C. plumbella*, *C. potentillae*, *C. succursella*, *C. virgaureae*, *Coleophora* sp. 2. So, for the fauna of Estonia according to the literature data 65 species of Coleophoridae are

known.

History of the study of Coleophoridae in Latvia

The first records on 15 species of Coleophoridae from Latvia were published in the work of F. LIENIG (1846). The two species *C. deauratella* and *C. splendidella* were described as new to science. The latter name is considered to be a synonym of *Metriotes lutarea*. W. NOLCKEN (1871) added 14 more species to the Latvian fauna. K. TEICH (1889), making a summary of the fauna of Latvia and Estonia, attributed 18 more species to the Latvian fauna. Among them are species, such as *Augasma aeratella*, *C. auricella*, *C. partitella*, of which there are no subsequent records in Latvia till now. In 1893 K. TEICH indicated the species *C. granulatella*.

F. BRANDT (1942) in his paper on moths from the Amata environs indicated 2 more species : *C. pappiferella* and *C. directella*. Later, S. TOLL (1952) basing on the material of F. BRANDT described as a new species *C. baltica*. However, this species appears to be a synonym of *C. carelica* HACKMAN, 1945. During recent years Aleksandr ŠULCS and later his son Ivar ŠULCS have played an important part in the study of Coleophoridae in Latvia. In numerous publications (ŠULCS A. 1959, 1961, 1964, 1976; ŠULCS A. & ŠULCS I. 1978, 1981, 1983, 1984a, 1984b, 1987; ŠULCS I. in litt.) there were reported 47 Coleophoridae species new to the Latvian fauna. From 1979 N. SAVENKOV has been studying this group. In his works (SAVENKOV 1984, 1986a, 1986b, 1987, 1988, 1989) there were recorded 22 Coleophoridae species new to the Latvian fauna.

Thus, at present the Latvian fauna totals 122 Coleophoridae species, 3 of which (*Augasma aeratella*, *Coleophora auricella* and *C. partitella*) are known only from the literature data.

History of the study of Coleophoridae in Lithuania

The first data on Coleophoridae in Lithuania appeared significantly later than in Estonia and Latvia. In the work of G. ULMER et al. (1918) only the species *Coleophora binderella* is found. Some time later T. IVANAUSKAS & L. VALIONIS (1923) indicated one more species : *C. laricella*. F. SCHILLE (1931) added 9 more species to the list. Some species mentioned by F. SCHILLE (*C. binotapennella*, *C. coronillae*, *C. unipunctella*) have not been recorded subsequently. A. PALIONIS (1932) considered 4 species, 2 of which (*C. uliginosella* and *C. hemerobiella*) enriched the list of Coleophoridae. J. PRÜFFER (1947), reviewing the Lepidoptera of the Vilnius district, mentioned 11 species, but only *C. coracipennella*, *C. alcyonipennella* and *C. lixella* were reported for the first time. S. PILECKIS (1974) presented 5 more species in his survey of the plant pests.

P. IVINSKIS (1982) reported 38 new species of Coleophoridae. In the paper of P. IVINSKIS & S. PAKALNIŠKIS (1983) 3 more species are mentioned. In the book on mining moths of Lithuania (IVINSKIS, PAKALNIŠKIS & PUPLESIS 1985) the data on 24 Coleophoridae species are given. In later reports of P. IVINSKIS following species were recorded : *C. gryphipennella* (1986), then 43

species (1988a) and quite recently 3 (1988b) and 2 species (1989) new to the Lithuanian fauna. So, up to now 104 species of Coleophoridae are recorded from Lithuania, 6 of which are known only from the literature : *C. binotapennella*, *C. unipunctella*, *C. polonicella*, *C. uliginosella*, *C. coronillae* and *C. ditella*.

The registration of old literature data was attented by certain difficulties. Poor development of systematics of this insect group prevents in all cases from revealing the right content of each species taxon. The available examples clearly prove it. For example, W. NOLCKEN reported on his rearing of *C. limosipennella* from *Alnus glutinosa*. It is quite clear that he dealt with *C. alnifoliae* and not with *C. limosipennella* in its present-day interpretation. Complexes of *silenella*, *sternipennella* and others are also considered in a tangle.

We omitted the literature data which were refuted after investigating collection material. The literature data which give rise to doubts, in the absence of preserved specimens, are marked with «?».

Thus, in the Baltic republics on the basis of our data 133 species of Coleophoridae are recorded. 7 species are known only from the literature : *C. binotapennella*, *C. ditella*, *C. unipunctella*, *C. polonicella*, *C. coronillae*, *C. auricella* and *C. partitella*. Taking into account the fauna of well studied territories of Finland, Sweden, Denmark and Poland, this number could be significantly increased.

There is no doubt that in the Baltic republics at least 13 more Coleophoridae species are expected to be revealed. They are as follows : *C. adjectella* HERRICH-SCHÄFFER, *C. asteris* MÜHLIG, *C. chalcogramella* ZELLER, *C. chrysanthemi* HOFMANN, *C. cornutella* HERRICH-SCHÄFFER, *C. gardesanella* TOLL, *C. hydrolapathella* M. HERING, *C. inulae* HEINEMANN & WOCKE, *C. ochrea* HAWORTH, *C. paradrymidis* TOLL, *C. saponariella* HEEGER, *C. sibiricella* FALKOVITSH and *C. sylvaticella* WOOD.

Almost all data concerning Estonia are given from the literature sources, therefore the localities are not indicated. The species new to the fauna of the Baltic republics are marked with an asterisk.

Abbreviations used in this paper

C - caterpillar	Est. - Estonia
E - early	Lat. - Latvia
M - mid	Lit. - Lithuania
L - late	isl. - island

Districts of Latvia

Alk. - Aluksne	Mad. - Madona
Bsk. - Bauska	Og. - Ogre
Ces. - Cesis	Rez. - Rezekne
Dgv. - Daugavpils	Rig. - Riga
Dob. - Dobele	St. - Stučka

Jlg. - Jelgava
Krs. - Kraslava
Liep. - Liepaja
Lim. - Limbazi
Lud. - Ludza

Tal. - Talsi
Tuk. - Tukums
Vlk. - Valka
Vlm. - Valmiera
Ven. - Ventspils

Districts of Lithuania

Al. - Alytus
Ig. - Ignalina
Jn. - Jonava
Jon. - Joniškis
Kaun. - Kaunas
Kéd. - Kėdainiai
Kl. - Klaipėda
Lazd. - Lazdijai
Mol. - Molėtai
Pan. - Panevėžys

Šil. - Šilutė
Širv. - Širvintos
Šv. - Švenčionys
Tr. - Trakai
Ukm. - Ukmergė
Ut. - Utena
Var. - Varėna
Vil. - Vilnius
Zar. - Zarasai

Check-list of Coleophoridae of the Baltic republics

1. *Augasma aeratella* (ZELLER, 1839)

Est.: -
Lat.: TEICH 1899. Not recorded subsequently.
Lit.: IVINSKIS 1982. Vil.: Vilnius.
Very rare. VI. C in stem galls on *Polygonum*.

2. *Metriotes lutarea* (HAWORTH, 1828) (= *modestella* DUPONCHEL, 1839; *splendidella* LIENIG & ZELLER, 1846)

Est.: NOLCKEN 1871; PETERSEN 1924.
Lat.: LIENIG 1846 (description of *splendidella*); NOLCKEN 1871; SAVENKOV 1987. Everywhere.
Lit.: IVINSKIS 1982. Everywhere.
Common, V-M VI. C on *Stellaria holostea*.

3. *Coleophora absinthii* HEINEMANN & WOCKE, 1877

Est.: -
Lat.: ŠULCS A. & ŠULCS I 1981. Liep.: Pape, Jūrmalciems; Tal.: Mersrags; Tuk.: Lepste; Rig.: Zveiniekciems; Dgv.: Silene.
Lit.: IVINSKIS 1982, 1988a. Ig.: Simoniškis; Ut.: Minčia; Var.: Puvočiai.
Quite common. L VI-VII. In disturbed biotopes and dunes. C. on *Artemisia absinthium*.

4. *Coleophora adelogrammella* ZELLER, 1849 (= *separatella* BENANDER, 1939)

Est.: -
Lat.: SAVENKOV 1986b. Tal.: Slitere; Tuk.: Ragaciems; Rig.: Kalngale, Garkalne; Dgv.: Daugavpils; Vlk.: Saule.
Lit.: -
Quite common. M VI-E VIII. C on *Dianthus arenarius* and probably *D. deltoides*.

5. *Coleophora adjunctella* HODGKINSON, 1882

* Est.: Saaremaa isl., Pjichtendahl], 9.VI.[18]66, 1 male, W. NOLCKEN leg.
Lat.: ŠULCS A. & ŠULCS I. 1981; SAVENKOV 1984. Rig.: Sloka, Riga, Kalngale, Carnikava, Turaida; Lim.: Kuivizzi.
Lit.: -
Rare. VI. More common in coastal zone. C on *Juncus*.

6. *Coleophora adspersella* BENANDER, 1939

Est.: -
Lat.: SAVENKOV 1986b. Liep.: Pape; Rig.: Carnikava.

- Lit.: IVINSKIS 1988a. Vil.: Vilnius; Kaun.: Kaunas.
 Rare. VII. In disturbed biotopes. C on *Chenopodium* and *Atriplex*.
7. *Coleophora ahenella* HEINEMANN & WOCKE, 1877
 Est.: KUUSIK 1962.
 Lat.: ŠULCS A. & ŠULCS I. 1978. Tuk.: Kandeva; Jlg.: Vilce, Eleja; Rig.: Salaspils, Carnikava;
 Lud.: Škaune.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius; Kaun.: Kaunas.
 Quite common. VI-VII. C on *Frangula alnus* and *Rhamnus cathartica*, *Lonicera xylosteum*.
8. *Coleophora albella* (THUNBERG, 1788) (= *leucapennella* HÜBNER, 1796; *albifuscella* ZELLER, 1839)
 Est.: -
 Lat.: LIENIG 1846; NOLCKEN 1871; ŠULCS 1976. Tuk.: Tukums; Dgv.: Daugavpils; Krs.: Kraslava; Lud.: Škaune.
 Lit.: IVINSKIS 1982. Vil.: Vilnius; Jn.: Jonava; Zar.: Tilžé.
 Quite common. M V-M VI. C on *Silene* and *Viscaria*.
9. *Coleophora albicostella* (DUPONCHEL, 1842)
 Est.: -
 Lat.: ŠULCS A. & ŠULCS I. 1987. Rig.: Riga, Garkalne; Og.: Kegums.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius; Kaun.: Kaunas.
 Locally, quite common. VI. C on *Potentilla*.
10. *Coleophora albidella* ([DENIS & SCHIFFERMÜLLER], 1775)
 Est.: -
 Lat.: ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: SCHILLE 1930; PRÜFFER 1947; IVINSKIS et al. 1985. Everywhere.
 Common. M VI-L VIII. C on *Salix*.
11. *Coleophora albitarsella* ZELLER, 1849
 Est.: NOLCKEN 1871.
 Lat.: SAVENKOV 1984; ŠULCS A. & ŠULCS I. 1984a. Everywhere.
 Lit.: IVINSKIS 1982; IVINSKIS et al. 1985. Everywhere.
 Common. VI-VII. C on *Origanum*, *Mentha*, *Salvia*, *Glechoma* and on other Lamiaceae.
12. *Coleophora alcyonipennella* (KOLLAR, 1832) (= *frischella* auct.)
 Est.: NOLCKEN 1871?; PETERSEN 1924?
 Lat.: LIENIG 1846?; NOLCKEN 1871?; TEICH 1889. Everywhere.
 Lit.: SCHILLE 1931; PRÜFFER 1947; IVINSKIS 1988a. Everywhere.
 Quite common. E VI-L VIII. C on *Cirsium*, *Carduus*, *Centaurea*, *Scabiosa*, *Serratula* and other Asteraceae.
13. *Coleophora alnifoliae* BARASCH, 1934
 Est.: NOLCKEN 1871 (*limosipennella*)?; PETERSEN 1924 (*limosipennella*).
 Lat.: NOLCKEN 1871 (*limosipennella*)?; TEICH 1889 (*limosipennella*); BRANDT 1942. Everywhere.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius; Kaun.: Kaunas; Zar.: Tilžé; Širv.: Širvintos.
 Quite common. E VI-VII. C on *Alnus*.
14. *Coleophora alticolella* ZELLER, 1849 (= *caespititiella* auct.)
 Est.: NOLCKEN 1871 (*caespititiella* var. *alticolella*); PETERSEN 1924 (*caespititiella*).
 Lat.: NOLCKEN 1871 (*caespititiella* var. *alticolella*); TEICH 1899 (*caespititiella*)?; ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: IVINSKIS 1988a. Everywhere.
 Common, in some places often. Prefers damp biotopes. L V-E VIII. C on *Juncus*.
15. *Coleophora amellivora* BALDIZZONE, 1979 (= *lineariella* auct.; *calcarella* auct.)
 Est.: -
 Lat.: ŠULCS in litt. Dgv.: Daugavpils; Alk.: Aluksne.
 Lit.: -
 Very rare. VI. C on *Solidago*.
16. *Coleophora antennariella* HERRICH-SCHÄFFER, 1861

- Est.: KUUSIK, 1962.
 Lat.: ŠULCS A. & ŠULCS I. 1981; SAVENKOV 1984. Everywhere.
 Lit.: IVINSKIS 1988a. Šv.: Ožkiniai.
 Common. V-E VI. C on *Luzula pilosa*. In L III-E IV the larvae move out of forest litter in large numbers, where they overwinter on tree trunks.
17. *Coleophora arctostaphyli* MEDER, 1933
 Est.: -
 Lat.: ŠULCS A. & ŠULCS I. 1983. Ven.: Lielirbe; Rig.: Garupe.
 Lit.: -
 Rare. VI-M VII. C on *Arctostaphylos uva-ursi*.
18. *Coleophora argentula* (STEPHENS, 1834)
 Est.: NOLCKEN 1871?; PETERSEN 1924?
 Lat.: ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: IVINSKIS 1982. Everywhere.
 Common. M VI-M VIII. C on *Achillea*.
19. *Coleophora artemisicolella* BRUAND, [1855]
 Est.: -
 Lat.: ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: IVINSKIS 1988a. Everywhere.
 Common. L VI-M VIII. C on *Artemisia vulgaris*.
20. *Coleophora artemisiella* SCOTT, 1861
 Est.: -
 Lat.: ŠULCS A. & ŠULCS I. 1983. Everywhere.
 Lit.: IVINSKIS 1982; IVINSKIS et al. 1985. Vil.: Vilnius; Var.: Merkinė.
 Common. E VI-E VIII. C on *Artemisia campestris*.
21. *Coleophora atriplicis* MEYRICK, [1928]
 Est.: KUUSIK 1967.
 Lat.: SAVENKOV 1988. Tuk.: Lepste.
 Lit.: -
 Very rare. VII. C on *Atriplex* and *Chenopodium*.
22. *Coleophora auricella* (FABRICIUS, 1794)
 Est.: -
 Lat.: TEICH 1889? No subsequent records. The record needs confirmation.
 Lit.: -
 Very rare. VI. C on *Stachys*.
23. *Coleophora badiipennella* (DUPONCHEL, 1843)
 Est.: KUUSIK 1967.
 Lat.: TEICH 1889; SAVENKOV 1984; ŠULCS A. & ŠULCS I. 1984a, 1987. Liep.: Embute; Tal.: Slitere; Jlg.: Vilce; Rig.: Turaida; St.: Plavinas.
 Lit.: -
 Rare. VI-L VII. C on *Ulmus*.
24. *Coleophora bernoulliella* (GOEZE, 1783) (= *anatipennella* HÜBNER, 1796, *tiliella* ZELLER, 1849)
 Est.: PETERSEN 1924.
 Lat.: LIENIG 1846 (*tiliella*); NOLCKEN 1871; TEICH 1889. Everywhere.
 Lit.: PILECKIS 1974; IVINSKIS & PAKALNIŠKIS 1983; IVINSKIS et al. 1985. Everywhere.
 Common. M VI-E VIII. C on *Malus*, *Sorbus*, *Prunus*, *Cerasus*, *Crataegus*, *Tilia* and others.
25. *Coleophora betulella* HEINEMANN & WOCCKE, 1877
 Est.: KUUSIK 1967.
 Lat.: ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: IVINSKIS 1988a. Šv.: Ožkiniai; Zar.: Tilžė.
 Quite common. M VI-E VIII. C on *Betula*.
26. *Coleophora bilineatella* ZELLER, 1849
 Est.: -

- Lat.: -
 Lit.: IVINSKIS 1988a. Vil.: Vilnius.
 Locally, rare. L VI-VII. C on *Sarothamnus scoparius*.
27. *Coleophora binderella* (KOLLAR, 1832) (= *lusciniaeapennella* ZELLER, 1839, *politella* SCOTT, 1861)
 Est.: KUUSIK 1962.
 Lat.: LIENIG 1846 (*lusciniaeapennella*); NOLCKEN 1871; TEICH 1893; SAVENKOV 1984.
 Everywhere.
 Lit.: ULMER et al. 1918; IVINSKIS et al. 1985. Everywhere.
 Quite common. L VI-VII. C on *Alnus*.
28. *Coleophora binotapennella* DUPONCHEL, 1843
 Est.: -
 Lat.: -
 Lit.: SCHILLE 1930; PRÜFFER 1947. Environs of Vilnius. No subsequent records.
29. *Coleophora brevipalpella* WOCKE, 1874
 Est.: KUUSIK 1962.
 Lat.: ŠULCS 1964, 1976. Jlg.: Vilce; Rig.: Carnikava, Allaži; Og.: Jaunogre; Lud.: Škaune.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius; Zar.: Tilžé; Ig.: Tverečius; Pan.: Raguva; Kaun.: Kaunas.
 Quite common. L VI-E VIII. C on *Centaurea*.
30. *Coleophora burmanni* TOLL, 1952.
 Est.: -
 Lat.: ŠULCS in litt. Dgv.: Daugavpils.
 Lit.: -
 Very rare. VIII. The species was only known from Southwestern regions of Europe. C. on *Gypsophila fastigiata*.
31. *Coleophora caelebipennella* ZELLER, 1839
 Est.: PETERSEN 1924.
 Lat.: NOLCKEN 1871; BRANDT 1942; ŠULCS 1961. Everywhere, more common in coastal area.
 Lit.: IVINSKIS 1982; IVINSKIS et al. 1985. Everywhere.
 Quite common. E VII-E VIII. C on *Artemisia* sp.; *Achillea millefolium*, *Anthemis tinctoria*.
32. *Coleophora caespititiella* ZELLER, 1839 (= *agrammella* WOOD, 1892)
 Est.: KUUSIK 1962 (*agrammella*).
 Lat.: SAVENKOV in litt. Everywhere.
 Lit.: IVINSKIS 1982. Everywhere.
 Common. L V-L VII. C on *Juncus*.
33. *Coleophora carelica* HACKMAN, 1945 (= *baltica* TOLL, 1952)
 Est.: -
 Lat.: TOLL 1952 (description of *baltica*); SAVENKOV 1987; ŠULCS A. & ŠULCS I. 1987. Tal.: Roja;
 Rig.: Inciems; Ces.: Amata; Alk.: Saule.
 Lit.: -
 Rare. L VII-VIII. Earlier only known from Finland and Karelia. C on *Achillea*. Case similar to that of *C. directella* and *C. expresella*, but 1,5 times shorter.
34. *Coleophora clypeiferella* HOFMANN, 1871
 Est.: -
 Lat.: ŠULCS 1976. Tal.: Mersrags; Rig.: Riga.
 Lit.: IVINSKIS 1982. Vil.: Vilnius; Kaun.: Kaunas; Mol.: Molėtai; Ig.: Simoniskis.
 Rare. VIII. C on *Atriplex* and *Chenopodium*.
35. *Coleophora colutella* (FABRICIUS, 1794) (= *serenella* DUPONCHEL, 1843, *crocinella* TENGSTRÖM, [1848])
 Est.: -
 Lat.: ŠULCS 1976. Everywhere.
 Lit.: IVINSKIS 1988a. Šv.: Pakretuoné.
 Rare. VI-E VII. C on *Astragalus glyciphyllus* and *A. danicus*.

36. *Coleophora conspicuella* ZELLER, 1849
 Est.: NOLCKEN 1871; PETERSEN 1924.
 Lat.: ŠULCS A. & ŠULCS I. 1978. Tuk.: Kandava, Klapkalnciems; Rig.: Sloka, Riga, Kalngale.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius; Jon.: Kriukai; Zar.: Tilžé.
 Rare. E VII-M VIII. C on *Centaurea* and *Solidago*.
37. *Coleophora conyzae* ZELLER, 1868
 Est.: -
 * Lat.: ŠULCS in litt. Rig.: Jaunkemeri, 22.VI.1988, 1 female.
 Lit.: -
 Very rare. VI. C on *Inula*, *Eupatorium*.
38. *Coleophora coronillae* ZELLER, 1849
 Est.: -
 Lat.: -
 Lit.: SCHILLE 1930?; PRÜFFER 1947? Found around Vilnius. No subsequent records.
 C on *Coronilla*.
39. *Coleophora cratipennella* CLEMENS, 1864 (= *tamesis* WATERS, 1929)
 Est.: -
 Lat.: ŠULCS A. & ŠULCS I. 1981; SAVENKOV 1984. Everywhere.
 Lit.: IVINSKIS 1988a. Everywhere.
 Quite common. M VI-E VIII. C on *Juncus*.
40. *Coleophora currucipennella* ZELLER, 1839
 Est.: NOLCKEN 1871; PETERSEN 1924.
 Lat.: NOLCKEN 1871; TEICH 1889; ŠULCS A. & ŠULCS I. 1981.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius; Ig.: Motiejūnai; Var.: Musteika; Ukm.: Zujai.
 Quite common. VII-L VIII. C on *Quercus*, *Corylus*.
41. *Coleophora deauratella* LIENIG & ZELLER, 1846
 Est.: NOLCKEN 1871; PETERSEN 1924.
 Lat.: LIENIG 1846; NOLCKEN 1871; BRANDT 1942. Everywhere.
 Lit.: IVINSKIS 1982. Everywhere.
 Common. E VI-L VIII. C on *Centaurea* and other Asteraceae.
42. *Coleophora dianthi* HERRICH -SCHÄFFER, 1855
 Est.: NOLCKEN 1871?; PETERSEN 1924?
 Lat.: TEICH 1889; SAVENKOV 1987. Ven.: Lielirbe; Tal.: Slitere; Rig.: Mangali, Kalngale, Carnikava; St.: Taurkalne.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius.
 Rare. E VI-E VII. C on *Dianthus arenarius*.
43. *Coleophora directella* ZELLER, 1849
 Est.: TEICH 1893?; PETERSEN 1924?
 Lat.: BRANDT 1942?; ŠULCS 1961; ŠULCS A. & ŠULCS I. 1981. Everywhere, more common in coastal area.
 Lit.: IVINSKIS 1988a. Vil.: Sužionys, Vilnius.
 Rare. VIII. Cases are often found in great numbers. C on *Artemisia campestris*.
44. *Coleophora discordella* ZELLER, 1849
 * Est.: Saaremaa isl., P[ichtendahl], 9.VI.[18]66, 1 female; R[otsikül], 15.VII.[18]70, W.
 NOLCKEN leg.
 Lat.: ŠULCS A. & ŠULCS I. 1981. Liep.: Virga; Tal.: Slitere; Tuk.: Kandava, Kemeri; Dob.: Auce, Tervete; Jlg.: Vilce; Bsk.: Rundale; Rig.: Sloka, Roga, Carnikava.
 Lit.: -
 Quite common. L V-M VII. C on *Lotus*.
45. *Coleophora ditella* ZELLER, 1849
 Est.: -
 Lat.: BRANDT 1942?
 Lit.: SCHILLE 1930?; PRÜFFER 1947? All records are doubtful and need confirmation.

C on *Artemisia*, *Helichrysum* and other Asteraceae.

46. *Coleophora eudoriella* TOLL, 1952 (= *klemensiewiczi* TOLL, 1950)*

Est.: -

Lat.: ŠULCS A. & ŠULCS I. 1984b (*klemensiewiczi*); SAVENKOV 1986b (*klemensiewiczi*); ŠULCS A. & ŠULCS I. 1987 (*klemensiewiczi*). Liep.: Akmenrags; Ven.: Puze; Tuk.: Ragaciems; St.: Taurkalne; Vlk.: Saule, Strenči.

Lit.: -

Rare. M VI-M VIII. C on *Dianthus arenarius*.

47. *Coleophora expresella* KLEMENSIEWICZ, 1902 (= *subdirectella* KANERVA, 1941)

Est.: -

Lat.: SAVENKOV 1987. Ven.: Lielirbe; Tal.: Slitere, Gipka, Roja, Upesgriva; Tuk.: Engure, Plienciems, Apsuciems, Klapkalciems, Ragaciems, Bigaunciems; Rig.: Riga, Kalngale.

Lit.: -

Locally. M VII-M VIII. Cases are often found in coastal areas of Southwestern regions of Latvia. C on *Achillea*, *Artemisia absinthium*, *A. campestris*.

48. *Coleophora flavipennella* (DUPONCHEL, 1843)

Est.: -

Lat.: ŠULCS A. & ŠULCS I. 1981. Everywhere.

Lit.: IVINSKIS 1988a. Everywhere.

Quite common. M VI-E VIII. C on *Quercus*.

49. *Coleophora follicularis* (VALLOT, 1802) (= *inulifolia* BENANDER, 1939, *troglodytella* DUPONCHEL, 1843)

Est.: -

Lat.: ŠULCS in litt. Rig.: Sloka.

Lit.: -

Very rare. VI. C on *Eupatorium*, *Inula*.

50. *Coleophora frischella* (LINNAEUS, 1758)

* Est.: Saaremaa isl., P[ichtendahl], 26.V.[18]62, 1 male, W. NOLCKEN leg.

Lat.: -

Lit.: SCHILLE 1931; PRÜFFER 1947. Var.: Merkiné; Kéd.: Uzupé.

Very rare. VI. Biology unknown. C supposed to feed on *Trifolium*.

51. *Coleophora fuscocuprella* HERRICH-SCHÄFFER, 1855

Est.: KUUSIK 1967.

Lat.: TEICH 1889. Dob.: Tervete; Jlg.: Vilce; Bsk.: Rundale; Rig.: Turaida.

Lit.: IVINSKIS 1982. IVINSKIS et al. 1985. Vil.: Vilnius.

Rare. VI. C on *Corylus*, *Betula*, *Alnus*.

52. *Coleophora galbulipennella* ZELLER, 1838 (= *otitae* ZELLER, 1839)

Est.: -

Lat.: LIENIG 1846; NOLCKEN 1871; ŠULCS A. & ŠULCS I. 1987; SAVENKOV 1988. Dgv.: Daugavpils; Krs.: Kraslava; Lud.: Zilupe.

Lit.: IVINSKIS 1988a. Zar.: Tilžė; Šv.: Ožkiniai.

Rare. M VII-E VIII. C on *Silene nutans*.

53. *Coleophora gallipennella* (HÜBNER, 1796)

Est.: KUUSIK 1967.

Lat.: ŠULCS 1976; ŠULCS A. & ŠULCS I. 1984a. Tal.: Upesgriva; Tuk.: Milzkalne; Jlg.: Vilce; Rig.: Riga; Og.: Kegums; Krs.: Kraslava.

Lit.: IVINSKIS 1982. Tr.: Grigiškės; Kaun.: Kaunas.

Quite common. VI-E VII. C on *Astragalus glycyphyllos* and *A. arenarius*.

54. *Coleophora glaucicolella* WOOD, 1892

Est.: -

* Red.: Two different species according to VIVES MORENO (1988). If both names prove to be synonymous *klemensiewiczi* has priority over *eudoriella*. Further study should clear this problem.

- Lat.: ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: IVINSKIS 1982. Everywhere.
 Common. M VI-M VIII. C on *Juncus*.
55. *Coleophora glitzella* HOFMANN, 1869
 Est.: NOLCKEN 1871?; PETERSEN 1924?
 Lat.: SAVENKOV 1984; ŠULCS A. & ŠULCS I. 1984a.
 Lit.: IVINSKIS 1988a. Var.: Pogarenda; Kl.: Šventojoji.
 Quite common. VI. C on *Vaccinium vitis-idaea* and *V. uliginosum*.
56. *Coleophora gnaphalii* ZELLER, 1839
 Est.: -
 Lat.: ŠULCS A. & ŠULCS I. 1981. Rez.: Nagli; Dgv.: Daugavpils.
 Lit.: IVINSKIS 1988a. Var.: Pamerkiai.
 Rare. L VI-M VIII. C on *Helichrysum* and *Gnaphalium*.
57. *Coleophora graminicolella* HEINEMANN & WOCKE, 1877
 Est.: NOLCKEN 1871; PETERSEN 1924.
 Lat.: TEICH 1889?; ŠULCS A. & ŠULCS I. 1981. Dob.: Tervete; Rig.: Salaspils, Carnikava, Garkalne; St.: Taurkalne; Lud.: Šķaune (Greblakalns); Vlm.: Valmiera.
 Lit.: IVINSKIS 1982 (*sileneella* part.). Ukm.: Zujai.
 Quite common. VI-VII. C on *Viscaria* and *Lychnis*.
58. *Coleophora granulatella* ZELLER, 1849 (= *artemisiae* MÜHLIG, 1864)
 Est.: PETERSEN 1924 (*artemisiae*).
 Lat.: TEICH 1893 (*artemisiae*); SAVENKOV 1984. Everywhere.
 Lit.: IVINSKIS 1982 (*artemisiae*). Vil.: Vilnius; Ig.: Simoniškis; Ukm.: Zujai; Var.: Puvočiai.
 Quite common. L VI-E VIII. C on *Artemisia campestris*.
59. *Coleophora gryphipennella* (HÜBNER, 1796) (= *scolopiphora* O. HERING 1926)
 Est.: -
 * Lat.: ŠULCS in litt. Rig.: Jūrmale, Riga, Carnikava.
 Lit.: PILECKIS 1974; IVINSKIS 1986. Kaun.: Kaunas.
 Very rare. VI. C on *Rosa*.
60. *Coleophora hackmani* (TOLL, [1853])
 Est.: -
 Lat.: SAVENKOV 1988. Tal.: Slitere; Rig.: Kalngale.
 Lit.: -
 Rare. M VI-E VIII. C on *Silene nutans*.
61. *Coleophora hemerobiella* (SCOPOLI, 1763)
 Est.: NOLCKEN 1871; PETERSEN 1924.
 Lat.: -
 Lit.: PALIONIS 1932; PILECKIS 1974; IVINSKIS & PAKALNIŠKIS 1983; IVINSKIS et al. 1985. Everywhere.
 In Lithuania very common. VII. C on *Malus*, *Prunus*, *Cerasus*, *Crataegus* and other Rosaceae.
62. *Coleophora ibipennella* ZELLER, 1849
 * Est.: Saaremmaa isl., Pfichtendahl, 21.VI.[18]62, 1 male, W. NOLCKEN leg.
 Lat.: ŠULCS A. & ŠULCS I. 1984a; SAVENKOV 1986b. Liep.: Virga; Tal.: Slitere; Bsk.: Rundale; Rig.: Riga; Mad.: Berzaune.
 Lit.: IVINSKIS 1988a. Ig.: Motiejūnai; Ukm.: Zujai.
 Quite common. VII. C on *Quercus*.
63. *Coleophora idaeella* HOFMANN, 1869
 Est.: NOLCKEN 1871 (*viminetella* var. *idaeella*)?; PETERSEN 1924; KUUSIK 1962.
 Lat.: TEICH 1889?; SAVENKOV 1987. Tal.: Slitere; Rig.: Garciems; Alk.: Korneti; Vlk.: Saule.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius.
 Quite common. E VI-L VII. C on *Vaccinium*.
64. *Coleophora juncicolella* STAINTON, 1851
 Est.: NOLCKEN 1871; PETERSEN 1924.

Lat.: SAVENKOV 1986b. Ven.: Stikli; Tal.: Slitere; Rig.: Kalngale, Garciems, Garupe.
Lit.: -
Quite common. M VI-M VII. C on *Calluna vulgaris*.

65. *Coleophora kuehniella* (GOEZE, 1783) (= *palliatella* ZINCKEN, 1813)
Est.: NOLCKEN 1871; PETERSEN 1924.
Lat.: NOLCKEN 1871; TEICH 1889; SAVENKOV 1988. Jlg.: Vilce; Bsk.: Rundale; Rig.: Turaida.
Lit.: IVINSKIS 1988a. Vil.: Vilnius; Sv.: Švenčionys.
Quite common. VI. C on *Quercus*.

66. *Coleophora kyffhusana* PETRY, 1898
Est.: -
Lat.: ŠULCS in litt. Dgv.: Daugavpils.
Lit.: -
Very rare. VI-VIII. C on *Gypsophyla fastigiata*.

67. *Coleophora laricella* (HÜBNER, [1817])
Est.: -
Lat.: TEICH 1889. Everywhere.
Lit.: IVANAUSKAS & VAILIONIS 1923; IVINSKIS et al. 1985. Everywhere.
Very common. L V-E VII. C on *Larix*.

68. *Coleophora lassella* STAUDINGER, 1859 (= *gotlandica* BENANDER, 1939)
Est.: -
Lat.: SAVENKOV 1984; ŠULCS A. & ŠULCS I. 1984a. Krs.: Ezernieki; Mad.: Barkava.
Lit.: -
Very rare. M VI-E VII. C supposed to live on *Juncus*.

69. *Coleophora ledi* STAINTON, 1860
Est.: NOLCKEN 1871; PETERSEN 1924.
Lat.: NOLCKEN 1871?; TEICH 1889; ŠULCS A. & ŠULCS I. 1983. Rig.: Garciems; Vlk.: Vijciems;
Vlm.: Marsalaca.
Lit.: IVINSKIS 1988a. Vil.: Vilnius; Var.: Pogarenda.
Quite common. L V-VI. C on *Ledum palustre*.

70. *Coleophora lewandowskii* (TOLL, [1953])
Est.: -
Lat.: -
Lit.: IVINSKIS 1988a. Var.: Musteika.
Very rare. L V. Formerly only known from the type specimen (TOLL, [1953]). Biology unknown. On 27.V.1975 1 specimen was caught in a light trap on the edge of a pine forest.

71. *Coleophora limosipennella* (DUPONCHEL, 1843)
Est.: -
Lat.: SAVENKOV 1988. Liep.: Embute; Tal.: Slitere, Vegi.
Lit.: IVINSKIS 1988a. Vil.: Vilnius.
Rare. VI-E VII. C on *Ulmus*.

72. *Coleophora lineolea* (HAWORTH, 1828)
Est.: -
Lat.: SAVENKOV 1984; ŠULCS A. & ŠULCS I. 1984a. Dob.: Auce; Bsk.: Rundale.
Lit.: -
Rare. VI. C on *Stachys*, *Lamium*, *Ballota* and other Lamiaceae.

73. *Coleophora lithargyrinella* ZELLER, 1849 (= *olivaceella* STAINTON, 1854)
Est.: -
Lat.: ŠULCS in litt. Tal.: Slitere; Rig.: Turaida.
Lit.: IVINSKIS 1982 (*olivaceella*); IVINSKIS et al. 1985. Vil.: Vilnius, Sužionys.
Rare. VII. C on *Stellaria* and *Cerastium*.

74. *Coleophora lixella* ZELLER, 1849
Est.: NOLCKEN 1871; PETERSEN 1924.
Lat.: LIENIG 1846 (*ornatipennella*); NOLCKEN 1871; TEICH 1889; BRANDT. Everywhere.

- Lit.: PRÜFFER 1947. Everywhere.
 Quite common. L VI-VII. C in autumn on *Thymus*, in spring on cereals.
75. *Coleophora lutipennella* (ZELLER, 1838)
 Est.: NOLCKEN 1871; PETERSEN 1924.
 Lat.: TEICH 1889; ŠULCS 1976. Everywhere.
 Lit.: IVINSKIS 1982; IVINSKIS et al. 1985. Everywhere.
 Common. L VI-L VIII. C on *Quercus*.
76. *Coleophora mayrella* (HÜBNER, [1813]) (= *fabriciella* VILLERS nec SWEDERUS, 1787, *spissicornis* HAWORTH, 1828)
 Est.: NOLCKEN 1871 (*fabriciella*); PETERSEN 1924.
 Lat.: LIENIG 1846; NOLCKEN 1871 (*fabriciella*); TEICH 1889 (*fabriciella*). Everywhere.
 Lit.: SCHILLE 1930; PRÜFFER 1947. Everywhere.
 Quite common. M VI-VII. C on *Trifolium*.
77. *Coleophora millefolii* ZELLER, 1849
 Est.: -
 Lat.: TEICH 1889?; SAVENKOV 1987. Ven.: Puze; Tal.: Roja, Upesgriva; Tuk.: Tukums.
 Lit.: -
 Rare. M VII-M VIII. C on *Achillea millefolium*.
78. *Coleophora milvipennis* ZELLER, 1839
 Est.: NOLCKEN 1871?; PETERSEN 1924.
 Lat.: TEICH 1889. Everywhere.
 Lit.: IVINSKIS 1988a. Zar.: Tilžė; Var.: Pogarenda.
 Quite common. E VI-M VII. C on *Betula*, *Corylus*, *Alnus*, *Carpinus*.
79. *Coleophora murinella* TENGSTRÖM, [1848]
 Est.: KUUSIK 1967.
 Lat.: SAVENKOV 1986a; ŠULCS A. & ŠULCS I. 1987.
 Lit.: IVINSKIS 1988a. Var.: Pogarenda; Kl.: Palanga.
 Quite common. VI-E VII. C on *Vaccinium vitis-idaea*.
80. *Coleophora murinipennella* (DUPONCHEL, 1844)
 Est.: NOLCKEN 1871; PETERSEN 1924.
 Lat.: LIENIG 1846 (*otidipennella*)?; NOLCKEN 1871; TEICH 1889. Everywhere.
 Lit.: IVINSKIS 1982. Everywhere.
 Common. E V-E VII. C on *Luzula*.
81. *Coleophora niveicostella* ZELLER, 1839
 Est.: -
 Lat.: SAVENKOV 1986b. Jlg.: Vilce.
 *Lit.: Vil.: N. Vertiai, 19.VII.1989, 1 male, P. IVINSKIS leg.
 Very rare. VI. C on *Thymus*.
82. *Coleophora niveistrigella* HEINEMANN & WOCKE, 1877
 Est.: -
 Lat.: ŠULCS in litt.; SAVENKOV in litt. Dob.: Tervete; Dgv.: Daugavpils; Rez.: Nagli.
 Lit.: IVINSKIS in litt. Vil.: Vilnius.
 Rare. VI-E VIII. C on *Gypsophyla fastigiata*.
83. *Coleophora nutantella* MÜHLIG & FREY, 1857
 Est.: NOLCKEN 1871 (*silenella* partim?); PETERSEN 1924.
 Lat.: NOLCKEN 1871 (*inflatae*); TEICH 1889 (*inflatae*); ŠULCS 1976 (*silenella* partim); ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: IVINSKIS 1982 (*silenella* partim). Vil.: Vilnius.
 Common. E V-M VII. C on *Silene*.
84. *Coleophora obscuripalpella* KANERVA, 1941
 Est.: -
 Lat.: SAVENKOV 1988. Ven.: Lielirbe; Vlk.: Vijciems.
 Lit.: -

Very rare. VI. C on *Ledum palustre*.

85. *Coleophora onobrychiella* ZELLER, 1849

Est.: NOLCKEN 1871.

Lat.: ŠULCS A. & ŠULCS I. 1984b, 1987. Rig.: Riga; St.: Taurkalne; Dgv.: Daugavpils.

Lit.: IVINSKIS 1988a. Vil.: Družilai; Var.: Pamerkiai.

Locally, rare. VII-E VIII. C on *Astragalus arenarius*.

86. *Coleophora orbitella* ZELLER, 1849

Est.: NOLCKEN 1871?; PETERSEN 1924?

Lat.: NOLCKEN 1871?; TEICH 1889; ŠULCS A. & ŠULCS I. 1978. Everywhere.

* Lit.: Šil.: Kintai, 20.VII.1987, 1 female, V. ŪSELIS leg.

Quite common. L V-L VII. C on *Betula*, *Alnus*, *Corylus*, *Carpinus*.

87. *Coleophora pappiferaella* HOFMANN, 1869

Est.: -

Lat.: BRANDT 1942; ŠULCS 1964. Rig.: Riga, Salaspils; Vlk.: Saule; Vlm.: Marsalaca.

Lit.: -

Rare. M V-E VI. C on *Antennaria dioica*.

88. *Coleophora paripennella* ZELLER, 1839

Est.: -

Lat.: ŠULCS A. & ŠULCS I. 1983. Everywhere.

Lit.: PILECKIS 1974; IVINSKIS 1988b. Vil.: Suzionys.

Quite common. L V-E VII. C on *Carduus*, *Centaurea*, *Carlina* and other Asteraceae.

89. *Coleophora partitella* ZELLER, 1849

Est.: -

Lat.: TEICH 1889? No subsequent records. Record needs confirmation.

Lit.: -

C on *Artemisia absinthium*, *Achillea*.

90. *Coleophora pennella* ([DENIS & SCHIFFERMÜLLER], 1775) (= *onosmella* BRAHM, 1791, *struthionipennella* HÜBNER, 1796)

Est.: -

Lat.: LIENIG 1846; NOLCKEN 1871; ŠULCS A. & ŠULCS I. 1981. Dgv.: Daugavpils, Demene.

Lit.: IVINSKIS 1982; IVINSKIS et al. 1985. Everywhere.

In Latvia very rare, in Lithuania common. VI-VII. C on *Anchusa*, *Echium*.

91. *Coleophora peribenanderi* TOLL, 1943

* Est.: Saaremaa isl., Picht[sendahl], 12.VI.[18]62, 1 male, W. NOLCKEN leg.

Lat.: ŠULCS A. & ŠULCS I. 1978. Liep.: Pape, Virga; Tuk.: Kandava, Kemerī; Jlg.: Vilce; Bsk.: Rundale; Rig.: Salaspils, Turaida.

Lit.: IVINSKIS 1982. IVINSKIS et al. 1985. Vil.: Vilnius; Kaun.: Kaunas.

Quite common. VI. C on *Carduus* and *Cirsium*.

92. *Coleophora plumbella* KANERVA, 1941

* Est.: Saaremaa isl., Tursa Moore, 12, 17.VI.[18]68, 3 males, Laasto, 21.VI.[18]68, 1 male, W. NOLCKEN leg.

Lat.: ŠULCS A. & ŠULCS I. 1984a. Rig.: Garcems; Vlk.: Strenči; Vlm.: Marsalaca.

Lit.: IVINSKIS in litt. Ukm.: Pilionys.

Rare. L V-VI. C on *Vaccinium uliginosum*.

93. *Coleophora polonicella* ZELLER, 1865

Est.: -

Lat.: -

Lit.: SCHILLE 1930?; PRÜFFER 1947? No subsequent records. Record needs confirmation.
C on *Astragalus arenarius*.

94. *Coleophora potentillae* ELISHA, 1885 (= *bothnicella* KANERVA, 1941)

* Est.: «Estonia, Orro», 15.VI.[18]95, 1 male, V. KENNEL leg.

Lat.: ŠULCS A. & ŠULCS I. 1987. Liep.: Virga, Vitini; Tal.: Slitere; Jlg.: Vilce; Riga.: Carnikava, Salaspils; Og.: Jumprava; St.: Koknese.

- Lit.: -
Rare. VI-E VII. C on *Filipendula*, *Agrimonia*, *Fragaria*, *Rubus* and other Rosaceae.
95. *Coleophora pratella* ZELLER, 1871
Est.: -
Lat.: ŠULCS in litt. Liep.: Virga.
Lit.: IVINSKIS 1988a. Vil.: Vilnius.
Very rare. VI. Biology unknown.
96. *Coleophora prunifoliae* DOETS, 1944
Est.: -
Lat.: SAVENKOV 1986b. Liep.: Virga; Dob.: Dobele; Jlg.: Vilce; Rig.: Carnikava; Krs.: Kraslava.
Lit.: IVINSKIS 1982; IVINSKIS et al. 1985. Vil.: Vilnius; Kaun.: Kaunas; Šv.: Ožkiniai; Zar.: Vosyliškės.
Quite common. L VI-VII. C on *Prunus*, *Malus*, *Cerasus*.
97. *Coleophora ptarmicia* WALSINGHAM, 1910
Est.: -
Lat.: SAVENKOV 1988. Krs.: Ezernieki, Auleja; Lud.: Škaune (Greblakalns).
Lit.: IVINSKIS 1988a. Vil.: Vilnius, Družliai.
Rare. VI-E VII. C on *Achillea millefolium*.
98. *Coleophora pyrrhulipennella* ZELLER, 1839
Est.: NOLCKEN 1871; PETERSEN 1924.
Lat.: TEICH, 1889; ŠULCS A. & ŠULCS I. 1978. Everywhere.
Lit.: IVINSKIS 1988a. Kaun.: Kaunas.
Quite common. VII. C on *Calluna vulgaris*.
99. *Coleophora ramosella* ZELLER, 1849
Est.: NOLCKEN 1871 (*troglodytella* var. *ramosella*); PETERSEN 1924 (*troglodytella*).
Lat.: ŠULCS A. & ŠULCS I. 1981. Everywhere.
Lit.: IVINSKIS 1982; IVINSKIS et al. 1985. Everywhere.
Quite common. M VI-VII. C on *Solidago* and *Hieracium*, *Aster*.
100. *Coleophora saxicolella* (DUPONCHEL, 1843) (= *benanderi* KANERVA, 1941, *flavaginella* auct.)
Est.: -
Lat.: SAVENKOV 1987. Tuk.: Lepste; Jlg.: Platone; Rig.: Carnikava; Mad.: Lubana.
Lit.: -
Quite common. M VII-M VIII. C on *Atriplex* and *Chenopodium*.
101. *Coleophora scabrida* TOLL, 1959
Est.: -
Lat.: SAVENKOV in litt. Og.: Kegums.
Lit.: IVINSKIS 1988a. Var.: Merkiné.
Very rare. VI. C on *Herniaria*.
102. *Coleophora serpylletorum* E. HERRING, 1889
Est.: -
Lat.: ŠULCS in litt.; SAVENKOV in litt. St.: Koknese; Krs.: Kraslava.
Lit.: IVINSKIS 1988a. Vil.: Vilnius, Sužionys; Zar.: Tilžė; Ukm.: Zujai.
Locally common. L VI-VII. C on *Thymus* and *Origanum*.
103. *Coleophora serratella* (LINNAEUS, 1761) (= *fuscedinella* ZELLER, 1849)
Est.: NOLCKEN 1871 (*fuscedinella*); PETERSEN 1924 (*fuscedinella*).
Lat.: LIENIG 1846 (*coracipennella*); NOLCKEN 1871 (*fuscedinella*); TEICH 1889 (*fuscedinella*); BRANDT 1942 (*fuscedinella*). Everywhere.
Lit.: IVINSKIS 1982; IVINSKIS et al. 1985. Everywhere.
Common. M VI-E VIII. C on *Betula*, *Alnus*, *Corylus*.
104. *Coleophora siccifolia* STAINTON, 1856
Est.: NOLCKEN 1871; PETERSEN 1924; KUUSIK 1962.
Lat.: NOLCKEN 1871; TEICH 1889; SAVENKOV 1984; ŠULCS A. & ŠULCS I. 1984a, 1987. Jlg.:

- Vilce; Rig.: Garkalne; Lud.: Škaune (Greblakalns).
 Lit.: IVINSKIS 1988a. Vil.: Vilnius; Ig.: Sniečkus; Sv.: Ožkiniai.
 Rare. VI-E VII. C on *Betula*, *Malus*, *Sorbus* and others.
105. *Coleophora silenella* HERRICH-SCHÄFFER, 1855
 Est.: -
 Lat.: ŠULCS in litt. Dgv.: Daugavpils.
 Lit.: IVINSKIS 1982. Vil.: Vilnius; Kaun.: Kaunas.
 Very rare. L V-VI. C on *Silene*. For species diagnostics the work of PATZAK, 1976 was used.
106. *Coleophora solitariella* ZELLER, 1849
 Est.: -
 Lat.: NOLCKEN 1871; TEICH 1889; SAVENKOV 1984. Everywhere.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius.
 Quite common. VI-E VII. C on *Stellaria* and *Cerastium*.
107. *Coleophora spinella* (SCHRANK, 1802) (= *cerasivorella* PACKARD, 1870, *nigricella* auct., *serratella* auct.)
 Est.: NOLCKEN 1871 (*nigricella*)?; PETERSEN 1924 (*nigricella*)?
 Lat.: NOLCKEN 1871 (*nigricella*); TEICH 1889 (*nigricella*)?; ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: PRÜFFER 1947 (*nigricella*); PILECKIS 1974 (*nigricella*); IVINSKIS 1982; IVINSKIS & PAKALNISKIS 1983 (*cerasivorella*); IVINSKIS et al. 1985 (*cerasivorella*). Everywhere.
 Common. M VI-VII. C on *Sorbus*, *Malus*, *Cerasus*, *Cotoneaster*, *Crataegus*, *Pirus*, *Prunus*.
108. *Coleophora squalorella* ZELLER, 1849
 Est.: -
 Lat.: ŠULCS 1964. Everywhere.
 Lit.: IVINSKIS 1982. Everywhere.
 Quite common. VII-E VIII. C on *Atriplex* and *Chenopodium*.
109. *Coleophora squamosella* STAINTON, 1856
 Est.: -
 Lat.: ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: IVINSKIS 1982. Vil.: Vilnius; Zar.: Tilžé.
 Common. L V-M VII. C on *Erigeron*.
110. *Coleophora sternipennella* (ZETTERSTEDT, [1839]) (= *flavaginella* LIENIG & ZELLER, 1846, *punctipennella* TENGSTRÖM, [1848])
 Est.: NOLCKEN 1871 (*flavaginella*, *motacillella*, *punctipennella*); PETERSEN 1924 (*flavaginella*, *motacillella*); KUUSIK 1962.
 Lat.: LIENIG 1846 (*flavaginella*); NOLCKEN 1871 (*flavaginella*); TEICH 1889 (*punctipennella*, *motacillella*)?; TEICH 1893 (*flavaginella*)?; ŠULCS A. & ŠULCS I. 1978. Everywhere.
 Lit.: SCHILLE 1930 (*flavaginella*); PRÜFFER 1947 (*flavaginella*). Everywhere.
 Common. M VI-M VIII. C on *Atriplex* and *Chenopodium*.
111. *Coleophora striatipennella* TENGSTRÖM, [1848] (= *apicella* STAINTON, 1858)
 Est.: NOLCKEN 1871 (*apicella*); PETERSEN 1924 (*apicella*).
 Lat.: TEICH 1889 (*apicella*); ŠULCS A. & ŠULCS I. 1978. Everywhere.
 Lit.: IVINSKIS 1982. Everywhere.
 Common. L V-L VIII. C on *Stellaria* and *Cerastium*.
112. *Coleophora succursella* HERRICH-SCHÄFFER, 1855
 * Est.: Saaremma isl., R[otsiküll], 29.VI.[18]65; P[ichtendahl], 15.VII.[18]65, W. NOLCKEN leg.
 Lat.: SAVENKOV 1986b. Dgv.: Daugavpils; Lud.: Škaune.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius.
 Rare. VII. C on *Artemisia campestris*.
113. *Coleophora taeniipennella* HERRICH-SCHÄFFER, 1855
 Est.: KUUSIK 1962.
 Lat.: ŠULCS A. & ŠULCS I. 1981; SAVENKOV 1984. Everywhere.
 Lit.: IVINSKIS 1982. Everywhere.

- Common. M VI-E VIII. C on *Juncus*.
114. *Coleophora tanaci* MÜHLIG, 1865
 Est.: -
 Lat.: SAVENKOV 1984; ŠULCS A. & ŠULCS I. 1984a. Everywhere.
 Lit.: IVINSKIS et al. 1985; IVINSKIS 1988a. Vil.: Vilnius.
 Quite common. VI. C on *Tanacetum*.
115. *Coleophora therinella* TENGSTRÖM, [1848]
 Est.: PETERSEN 1924.
 Lat.: NOLCKEN 1871; TEICH 1889; ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: IVINSKIS 1988a. Everywhere.
 Common. M VI-E VIII. C on *Cirsium* and *Carduus*.
116. *Coleophora trifolii* (CURTIS, 1832) (= *melilotella* SCOTT, 1861, *frischella* auct.)
 Est.: PETERSEN 1924 (*frischella*).
 Lat.: ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: PRÜFFER 1947. Everywhere.
 Common, locally abundant. E VI-E VIII. C on *Melilotus*.
117. *Coleophora trigeminella* FUCHS, 1881
 Est.: -
 Lat.: ŠULCS in litt. Tal.: Slitere.
 Lit.: IVINSKIS 1988b. Vil.: Vilnius.
 Very rare. VI-VII. C on *Sorbus*, *Crataegus* and *Prunus*.
118. *Coleophora trochilella* (DUPONCHEL, 1843) (= *troglodytella* auct.)
 Est.: -
 Lat.: TEICH 1889 (*troglodytella*)? Everywhere.
 Lit.: IVINSKIS 1988a. Everywhere.
 Common. VI-VIII. C on *Achillea*, *Artemisia*, *Solidago*, *Leucanthemum* and *Tanacetum*.
119. *Coleophora uliginosella* GLITZ, 1872
 Est.: -
 Lat.: ŠULCS 1959. Rig.: Riga.
 Lit.: PALIONIS 1932? No subsequent records.
 Very rare. VI. C on *Vaccinium uliginosum*.
120. *Coleophora unipunctella* ZELLER, 1849
 Est.: -
 Lat.: -
 Lit.: SCHILLE 1930?; PRÜFFER 1947? Recorded from around Vilnius. No subsequent records.
 C on *Chenopodium*.
121. *Coleophora vacciniella* HERRICH-SCHÄFFER, 1861
 Est.: -
 Lat.: ŠULCS A. & ŠULCS I. 1983. Tal.: Slitere, Kalnenieki; Tuk.: Plienciems; Rig.: Garciems;
 Vlk.: Vijaicems; Vlm.: Marsalaca.
 Lit.: -
 Quite common. E V-VI. C on *Vaccinium*.
122. *Coleophora versarella* ZELLER, 1849
 * Est.: NOLCKEN 1871?; PETERSEN 1924; Saaremaa isl., Paew., 12.VI.[18]66, 1 male, W. NOLCKEN
 leg.
 Lat.: TEICH 1889; ŠULCS A. & ŠULCS I. 1978. Everywhere.
 Lit.: IVINSKIS 1982. Everywhere.
 Common. M VI-M VIII. C on *Atriplex* and *Chenopodium*.
123. *Coleophora vestianella* (LINNAEUS, 1758) (= *laripennella* ZETTERSTEDT, [1839])
 Est.: NOLCKEN 1871 (*annulatella*); PETERSEN 1924 (*laripennella*).
 Lat.: NOLCKEN 1871 (*annulatella*); TEICH 1889 (*laripennella*); ŠULCS 1976 (*laripennella*).
 Everywhere.
 Lit.: IVINSKIS 1982 (*laripennella*), 1988a. Everywhere.

- Common. L VI-M VIII. C on *Atriplex* and *Chenopodium*.
124. *Coleophora vibicigeraella* ZELLER, 1839
 Est.: NOLCKEN 1871; PETERSEN 1924.
 Lat.: LIENIG 1846; NOLCKEN 1871. Everywhere.
 Lit.: IVINSKIS 1982; IVINSKIS et al. 1985. Everywhere.
 Quite common. VI-VII. C on *Artemisia campestris*, *Achillea*.
125. *Coleophora viminetella* ZELLER, 1849
 Est.: NOLCKEN 1871; PETERSEN 1924; KUUSIK 1962.
 Lat.: TEICH 1889. Everywhere.
 Lit.: IVINSKIS 1982; IVINSKIS et al. 1985. Everywhere.
 Common VI-VII. C on *Salix*, *Myrica gale*, once found on *Acer*.
126. *Coleophora violacea* (STRÖM, 1783) (= *hornigi* TOLL, 1952, *albicornella* BRADLEY, 1956, *paripennella* auct.)
 Est.: NOLCKEN 1871 (*paripennella*); PETERSEN 1924 (*paripennella*).
 Lat.: LIENIG 1846 (*paripennella*); NOLCKEN 1871 (*paripennella*); TEICH 1889 (*paripennella*); BRANDT 1942 (*paripennella*); ŠULCS A. & ŠULCS I. 1981; SAVENKOV 1984. Everywhere.
 Lit.: IVINSKIS 1988a. Everywhere.
 Quite common. C. on *Betula*, *Alnus* and other trees and shrubs.
127. *Coleophora virgaureae* STAINTON, 1857
 * Est.: Saaremaa isl., R[otsiküll], 7.VII.[18]64, 1 male, W. NOLCKEN leg.
 Lat.: ŠULCS A. & ŠULCS I. 1981. Everywhere.
 Lit.: IVINSKIS 1982. Everywhere.
 Common. E VI-L VIII. C on *Solidago*.
128. *Coleophora vitisella* GREGSON, 1856
 Est.: NOLCKEN 1871?; PETERSEN 1924?
 Lat.: NOLCKEN 1871?; TEICH 1889? Tal.: Slitere; Rig.: Garcieims.
 Lit.: IVINSKIS 1988a. Vil.: Vilnius; Šv.: Ožkiniai; Ig.: Motiejūnai; Var.: Musteika; Kl.: Palanga.
 Rare. VI-E VII. C on *Vaccinium vitis-idaea*.
129. *Coleophora vulnerariae* ZELLER, 1839
 Est.: NOLCKEN 1871; PETERSEN 1924.
 Lat.: TEICH 1889. Tuk.: Kandava, Plienciems; Rig.: Riga, Carnikava.
 Lit.: IVINSKIS 1982. Tr.: Ūbiškės.
 Quite common. VI-E VII. C on *Anthyllis*.
130. *Coleophora wockeella* ZELLER, 1849
 Est.: -
 Lat.: SAVENKOV in litt. Lud.: Škaune (Greblakalns).
 Lit.: -
 Very rare. VII. C on *Stachys*.
131. *Coleophora zelleriella* HEINEMANN, 1854
 Est.: -
 Lat.: Jlg.: Platone, 6.VII.1985, 1 male, ŠULCS leg.
 * Lit.: Vil.: Vilnius, 26.VI.1982, 1 male, P. IVINSKIS leg.
 Very rare. VII. C on *Salix*.
132. *Coleophora* sp. 1
 Est.: -
 Lat.: -
 * Lit.: one male was caught in a light trap around Ukmurgė on 15.V.1985 (overgrown bed of river Šventoji). The genital structures differ from all known species. It may be a new species. Status is being studied.
133. *Coleophora* sp. 2
 * Est.: Saaremaa isl., R[otsiküll], 8.VI.[18]63, 1 female, W. NOLCKEN leg. Status is being studied.
 The specimen belongs to the *silenella* group.
 Lat.: -

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Boekbesprekingen

Aichele, D. : *Was blüht denn da? Der Fotoband. Wildwachsende Blütenpflanzen Mitteleuropas.* 11 x 18 cm, 447 p., 489 kleurenfoto's, 400 afbeeldingen in kleur, Franckh-Kosmos Verlag GmbH & Co., D-7000 Stuttgart, Kosmos-Naturführer, gebonden met plastic beschermhoes, 1991, DM 28,- (ISBN 3-440-06227-9).

Van dit beroemde, algemeen bekende determineerboek is dit alweer de 53ste editie en die wijkt in enkele belangrijke punten af van de vorige edities. Zo zijn de pentekeningen door M. GOLTE-BECHTLE vervangen door kleurenfoto's, meestal van de auteur zelf. De teksten zijn grotendeels gelijk gebleven aan vroegere uitgaven, al is de rubriek «Algemene wetenswaardigheden» uitgebreid.

Deze nieuwe uitgave is, zoals de vroegere, ingedeeld volgens de kleur van de bloemen en binnen elke kleur nog eens volgens het aantal kroonblaadjes. Omdat de bloemen de meest opvallende organen van een plant zijn en vooral voor leken duidelijk waarneembaar, is deze methode van determineren de gemakkelijkste gebleken.

Bovenaan elke bladzijde vindt men telkens een kleurenfoto van een plant en onderaan de desbetreffende tekst. In deze tekst worden bijzondere herkenningspunten aangehaald, alsook gegevens over bloeitijd, grootte, standplaats enz. Dikwijls worden ook vruchten van struiken of bomen afgebeeld, omdat die ook met nut kunnen gebruikt worden bij het determineren.

Zoals steeds in de reeks Kosmos-Naturführer is het boek erg verzorgd uitgegeven. De foto's komen goed tot hun recht op het glanzende papier. Het handige formaat en de plastic hoes zorgen ervoor dat het boek mee in de natuur genomen kan worden om ter plaatse gebruikt te worden.

W.O. De Prins