

# A provisional phylogenetic check-list of the western palaeartic Nepticulidae, with data on hostplants (Lepidoptera)

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A checklist, containing all described Nepticulidae from the western palaeartic region, is provided. All species-group names given to western palaeartic species are listed, including those in synonymy, whether available or not. Eleven new synonymies are established at generic level, and 18 at species level; 48 new combinations are made and two lectotypes are designated. The arrangement of species reflects present phylogenetic opinion. Hostplant data are provided for each species, and a systematic catalogue concludes this paper.

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The leaf-mining family Nepticulidae has in recent years received increasing interest both from collectors and taxonomists, especially in northwestern Europe. Our department has concentrated on taxonomic and phylogenetic studies of western palaeartic Nepticulidae. However, although they are still in progress, the absence of a modern reference work urged me to provide a provisional checklist, bringing the taxonomy and nomenclature up-to-date, and serving as a framework for future studies and reference.

No review of the European species has been presented since Rebel (1901) and Meess (1910), but many species have been described since. Hering (1957) treated all the then known mines of European and mediterranean species, but gave no systematic list. Some recent local checklists or fauna works dealing with Nepticulidae are: Johansson (1971) for Scandinavia, Borkowski (1975) for Poland, Karsholt & Nielsen (1976) for Denmark, Emmet (1976, 1979) for the British Isles, Kyrki (1978) for Finland, Leraut (1980) for France, van Nieukerken (1982a) for the Netherlands and de Prins (1983) for Belgium.

This list includes all nominal species and infraspecific names, including the unavailable ones, described from the western palaeartic

region, approximately as far east as longitude 70° East.

Data on hostplants are also provided, but data on distribution are omitted since European data will be published in the "Checklist of the Lepidoptera of Europe".

## Taxonomy and nomenclature

The generic taxonomy follows van Nieukerken (in prep.) and will not be discussed here.

The species taxonomy is partly based on the recent revisions of parts of *Stigmella*: Johansson (1971), Schoorl, van Nieukerken & Wilkinson (1985) and Schoorl & Wilkinson (1986), for *Parafomoria* van Nieukerken (1983) and for *Ectoedemia* (partim) van Nieukerken (1985). The remaining species have either been examined by myself, or detailed data from other specialists were available to me through publications and personal communication.

The grouping of species in *Stigmella* is tentative, and a refinement of Johansson's (1971) list, in which he provided the first division into species groups. The species groups in *Stigmella* and *Ectoedemia*, although without formal taxonomic status, have been given together with their authors for

historical reasons, but strict priority has not always been observed here. When no author is given, the group has not been named previously, as far as I know.

The sequence of the species within the genera reflects modern opinion about phylogeny, although only part of it is based on a thorough cladistic analysis.

Whereas the fauna of West and North Europe is comparatively well known, and not many new species can be expected, in all probability a large number are still to be discovered in the Mediterranean region and western Asia, as partly indicated by the presence of many undescribed species in collections.

I have tried to include all available names attributed to Nepticulidae from the region, as well as the unavailable names, including those given by Skala, after 1930, to leafmines, and the infrasub-specific names, which are few. All unavailable names are indicated by a double dagger (‡) and infrasub-specific names are also followed by 'infrasubs.' I have checked almost all original references, except a few which I could not trace.

From a total of about 440 specific names, about 400 available and 47 unavailable names are attributed to 225 species. From 31 names, of which 9 are not available, the identity could not be determined; most of them are probably synonyms of existing species. They are listed at the end of the check-list.

Many synonymies were established previously, but several new synonymies are made here, and shortly commented in the taxonomic notes. Species treated in the taxonomic notes are preceded by an asterisk in the list.

Abbreviations used for collections are the same as those used by van Nieukerken (1985).

## Hostplants

In Nepticulidae, hostplant data are very important indeed. It is by collecting mines, that most people start their study of this family, and many species can only be collected satisfactorily by rearing larvae. Until recently there has been a general belief that nepticulids are always monophagous, causing the proliferation of 'species' descriptions based on hostplant and mineform only, without additional morphological criteria.

It has now become clear that especially species feeding on Rosaceae are more often oligophagous

than monophagous, and some species even feed on a number of hostplant-genera. The most 'polyphagous' species in Europe are *Stigmella oxyacanthella* (Stainton) on Rosaceous trees, *S. aurella* (Fabricius) on Rosaceous herbs and shrubs and *Geranium*, and *Ectoedemia atricollis* (Stainton) on Rosaceous trees and *Staphylea*.

In the checklist, only those hostplants from which the nepticulid species is collected with certainty, are given. When a generic plant name is given, the nepticulid species can potentially feed on all native species of this genus, but is not always recorded from all. When the generic name is followed by spp., the larva only feeds on certain species of the genus and is absent from others. When the number of hostplant species is low, their complete names are given. Only native or widely cultivated species are taken into consideration, data from botanical gardens are neglected. More detailed data on hostplants are amongst others given in the revisions listed above. For reasons of space it is impossible to give here the sources of the hostplant data, but many come from unpublished information from R. Johansson, the present author and his colleagues.

In order to provide a picture of the hostplant spectrum of the family, and to know which species feed on a given plant, a systematic catalogue of hostplants with cross references to species numbers is provided as well. Taxonomy, nomenclature and sequence of plants follows Tutin et al. (1964–1976), but for non-European plants local floras have been consulted.

## Taxonomic notes

### 1. *Simplimorpha promissa* (Staudinger)

Examination of the female holotype of *Nepticula robiniella* Gustafsson, 1973 (in RMS), revealed that it is identical with *promissa*. The mined leaf, which had been misidentified as belonging to *Robinia* (Gustafsson 1973), belongs in fact to *Pistacia atlantica* Desf.

### 2. *Enteucha acetosae* (Stainton)

Shield (1853) named this species in a list of collected specimens, but since he only mentioned the name and hostplant without any description or

further indication, his name is not available, and Stainton thus remains the author.

#### 8. *Stigmella paliurella* (Klimesch)

This species was named first by Gerasimov (1937), but since he only described the mine (after 1930), his name is not available, according to the Code (art. 1b and 13a). Therefore Klimesch (1940) is credited with the authorship, because he fully described the species.

#### 18. *Stigmella prunetorum* (Stainton)

This species received three names in the year 1855, but Stainton's name is clearly the older, because Herrich-Schäffer (1855: 353) himself stated in the description of *perpusillella* that it is the same species as *prunetorum* under reference to its original description.

#### 27. *Stigmella anomalella* (Göze)

This is a very variable species with many synonyms. *Phalaena grisearosae* Retzius is a name which, like *anomalella*, has been given to De Geer's (1752) earlier description of the species. For the synonymy of *penicilla* Thunberg, refer to Karsholt & Nielsen (1986) and for *aeneella* to Schoorl, van Nieukerken & Wilkinson (1985). *N. fletcheri* is the name of the black-headed form, of which I have examined several syntypic specimens. As lectotype I select here the male labelled: U.K.: Sussex, Slindon, bred 29.4 – 21.5.1891, Rosa arvensis; E. R. Bankes Collection B. M. 1928–208; Genitalia Slide BM No. 22682; plus my lectotype and identification labels (BMNH).

*Nepticula zermattensis* Weber and *N. caulescentella* Klimesch are names given to forms feeding on respectively *Sanguisorba* and *Potentilla caulescens*. I have examined syntypic material of both and am assured that there are no morphological differences to justify a separate specific status, nor is the biology different enough. The different hostplants in this case do not give enough grounds to regard them as different; also other species are known to feed both on *Rosa* and Rosaceous herbs, as for instance *S. centifoliella* and *E. angulifasiella*. However, the situation might be more complex, since *N. zermattensis* sensu Klimesch (1951) seems to be a different species (Johansson pers. comm.).

#### 28. *Stigmella spinosissima* (Waters)

By examination of the ♂ holotype and a ♀ paratype, it can be concluded that *spinosissima* is closely related to *anomalella* but yet sufficiently different to warrant separate specific status. It is however a completely different species from *spinosissima* sensu Klimesch (1951), which belongs to the *sanguisorbae* group.

36. see 28.

#### 38. *Stigmella pyrivora* Gustafsson

This species might well be conspecific with *S. paradoxa* (Frey).

#### 49. *Stigmella hybnerella* (Hübner)

*Tinea ampelipennella* Hübner and *T. posticella* Haworth both are unnecessary replacement names of *hybnerella*. The species is oligophagous on *Crataegus*, *Cotoneaster* and *Amelanchier*. It can possibly also be found on other Rosaceous trees. Specimens reared from *Amelanchier ovalis* are inseparable from typical *hybnerella* (= *mespilicola* sensu Klimesch 1948).

#### 50. *Stigmella mespilicola* (Frey)

The holotype ♂ of *mespilicola* Frey, labelled: Zürich, Frey collection (BMNH) has genitalia which are similar to those from *ariella* Herrich-Schäffer (see Klimesch 1948), thus with much shorter valvae than *hybnerella*. According to Frey (1856), his specimen was reared from *Amelanchier ovalis*, but since all recent specimens reared from this plant belong to *hybnerella*, it is questionable whether his plant identification was correct. On *Cotoneaster* both this species and *hybnerella* occur, but the male genitalia of *cotoneastri* sensu Klimesch (1948) clearly belong to this species.

#### 54. *Stigmella salicis* (Stainton)

This is a variable species, feeding on a wide range of *Salix* species, usually with hairy leaves. *S. vimineticola* (Frey) and *S. auritella* (Skala) appear to fall within the variability of this species and are therefore synonymised. These conclusions are partly based on work of R. Johansson (pers. comm.). *N. uniformis* Heinemann and *unicolor*

Müller-Rutz are merely uniformly coloured aberrations. The male holotype of *Stigmella libiezi* Dufrane, previously considered a synonym of *S. malella*, belongs to *salicis*. It is labelled: Frameries, 24.6.05, ex larva, Dufrane; larva bois d'Eugies, 29.9.04, Dufrane; *Cerasus padus*; holotype; Genitalia slide VU 1436 (coll. IRSN). Probably Dufrane mistook *Salix caprea* for *Prunus padus*, two commonly associated trees with more or less similar leaves.

#### 56. *Stigmella zelleriella* (Snellen)

See van Nieuwerkerken (1983a) for the synonymy. Svensson (1985) is of the opinion that *lappovimella* is a separate species, and is currently investigating its status.

#### 57. *Stigmella benanderella* (Wolff)

A form of this species occurs in Lapland on *Salix phylicifolia*. This form has previously been considered to be a separate species, and named *scandicella*, but has never been formally described.

#### 60. *Stigmella trimaculella* (Haworth)

Zeller (1839) was of the opinion that *Phalena rufella* Scopoli, 1763 was the same as his *Lyonetia rufella* Zeller, a junior synonym of *trimaculella*. Later, Zeller (1848) expressed his doubts about the identity of Scopoli's species, and in his revision of the species described by Scopoli in 1763 (Zeller 1855), he completely changed his idea and considered *rufella* Scopoli as a different, though doubtful species. According to Zeller (1855), Scopoli (1763) did not illustrate this species in plate 43 (or 36), in which the figures are unnumbered. According to Werneburg (1858), however, *rufella* is illustrated on this plate, in the middle just above the Pterophorids, but also he remains in doubt about the identity of the species. In my opinion, it is impossible to ascribe the figure, or any other figure on plate 43 or the description, to *trimaculella* with its characteristic colour pattern. I am therefore in favour of rejecting the name *rufella* Scopoli, unless its identity could be firmly established.

#### 64. *Stigmella lemniscella* (Zeller) comb. n.

In 1839, Zeller described two species which he caught on *Ulmus*. The first, which he incorrectly

named *Lyonetia huebnerella* Hübner, with a black head and androconial scales ("Die Oberfläche der hinterfl. ist mit langen, tiefschwarzen Haaren bestreut"), is clearly similar to the male of *marginicolella*. The second, *Lyonetia lemniscella*, he compared with his *huebnerella* and described it as having a red head and lacking the black hairscales. This description, together with the note "an Ulmenstammen", makes it most likely that *lemniscella* is the female of *marginicolella*. Unfortunately, no syntypic material of *lemniscella* could be traced in BMNH (K. R. Tuck pers. comm.), but the evidence seems sufficient to synonymise *marginicolella* with *lemniscella*.

#### 66. *Stigmella aurella* (Fabricius)

Through breeding experiments and analysis of allozymes, the opinion that the forms feeding on *Agrimonia*, *Fragaria* and *Geum* belong to *aurella* (see Klimesch 1981), has been corroborated (Bryan & Menken pers. comm.). Specimens reared from *Geranium versicolor* from Greece (Pindhos mountains) are also unseparable from typical *aurella*. Contrary to earlier publications, *fragariella* Heinemann is a synonym of *aurella* (Johansson in litt.).

#### 68. *Stigmella splendidissimella* (Herrich-Schäffer)

This species also appears to feed occasionally on *Fragaria* and *Geum*, as does *aurella* (Bryan & Menken pers. comm.).

#### 69. *Stigmella pretiosa* (Heinemann)

There are virtually no characters which justify the separation of *pretiosa* and *bollii*.

#### 75. *Stigmella poterii* (Stainton)

Contrary to my earlier belief (van Nieuwerkerken 1982a), it seems that the *Potentilla*- and *Sanguisorba*-feeding forms are completely inseparable, often occurring together. Therefore, I conclude that they belong to one oligophagous species.

#### 76, 77. *Stigmella filipendulae* (Wocke) & *ulmariae* (Wocke)

These two species are closely related, and in their genitalia almost inseparable. According to

Johansson (in litt.), there are some constant differences in Scandinavian specimens, so the species are here tentatively treated as separate taxa.

79. **Stigmella incognitella** (Herrich-Schäffer)  
comb. n.

Herrich-Schäffer (1855) described this species from material reared and described in litt. by Frey. Frey (1856) synonymised it immediately with *pygmaeella* Haworth and considered it as the apple feeding form of that species. Both descriptions can only apply to the species currently known as *S. pomella* (Vaughan), for which therefore the senior *incognitella* should be used. Herrich-Schäffer (1860) made a mistake when he wrote: "*N. incognitella*, später von Frey als *desperatella* beschrieben" because his description does not fit that species (colour of collar, presence of anal tufts in male and female). In the Frey collection (BMNH), there is no material labelled as *incognitella* (K. R. Tuck in litt.), but there are specimens under *N. pomella* Heinemann. Since Heinemann described *pomella* in 1862, this material must have been labelled later, so it is impossible to decide if part of it is syntypic material of *incognitella*. However, the description of *incognitella* completely justifies its present synonymy.

86. **Stigmella** sp. n.

This refers to an undescribed species from Greece, closely related to *S. suberivora*.

88. **Stigmella basiguttella** (Heinemann)

Study of allozymes of Dutch populations of this species revealed the presence of two biochemically distinct sibling species (Menken pers. comm.). Morphologically, they have not yet been separated.

103. **Acalyptris** sp. n.

This refers to an undescribed species, collected by Walsingham (1904) on *Limoniastrum* near Biskra, Algeria. It will be named and described elsewhere.

108. **Acalyptris** sp. n.

Klimesch (1978) described two completely different forms of *A. minimella*, the typical form and a

form of *Rhodos*. The latter will be described as a new species elsewhere.

122. **Trifurcula zollikofferiella** (Chrétien)  
comb. n.

I have examined male genitalia of specimens collected by us at the type locality. Clearly, they belong to the subgenus *Glaucolepis*.

123. **Trifurcula headleyella** (Stainton)

*T. dubiella* (Hauder) and *rodella* Svensson are here regarded as synonyms of *headleyella*. They are both insufficiently defined, and lack external diagnostic differences. *T. rodella* has been described on the base of a different tegumen but this character varies within the species, as indicated by Svensson himself (1985).

126. **Trifurcula thymi** (Szöcs)

This species was named but not described by Hering, so Borkowski (1970) described it as a new species. He mentioned the fact that Szöcs had treated and described this species, giving Hering as author, in the Fauna Hungariae (1965: 89–90), but regarded Szöcs' description as unavailable. There is, however, no nomenclatorial reason to doubt the availability of Szöcs' description; therefore he should be the author and material from his collection the type material. The following male is here selected as lectotype: HUNGARY: Budapest, Széchenyi-hegy, 1963.VII.21 e.1., Szöcs J., *Thymus glabrescens*, 25/63 genitalia slide VU 2506 (TMAB).

138. **Trifurcula eurema** (Tutt)

*T. eurema*, *dorycniella* and *gozmanyi* appear to be morphologically inseparable, and therefore probably belong to one species. *T. dorycniella* is reported to pupate inside the mine, but it appears to be variable in this habit as is the *Lotus*-feeding form.

142. **Trifurcula pallidella** (Duponchel)

See van Nieukerken & Johansson (in press).

144. **Trifurcula serotinella** Herrich-Schäffer  
Johansson (in litt.) examined type-material of *confertella* which confirms the synonymy with *serotinella*.

147. **Trifurcula beirnei** Puplesis

See van Nieuwerkerken & Johansson (in press).

159. **Bohemannia auriciliella** (Joannis) comb. n.

I have examined the female holotype of this species, and found that it is identical in its externals with *E. bradfordi* Emmet, including the characteristic dark-edged scape and the colour of the forewings. *N. auriciliella* was therefore previously wrongly synonymised with *quadrimaculella* by Klimesch (1975).

This remains a cryptic species of which now three specimens are known: the two holotypes and a Dutch specimen (van Nieuwerkerken 1982a). Labels holotype: TYPE; Vannes, 23 Juin; auriciliella J. Joann. type; 1920-1932, coll. L. & J. DE JOANNIS, MUSEUM PARIS; *Nepticula auriciliella* Joan., Ann. Soc. ent. France 1908, vol. 77, p. 822; *Scoliaula quadrimaculella* Boh., ♀, DET.

Dr. J. KLIMESCH; Genitalpräparat ♀ Sc. quadrimac. Boh., no. 720, J. Klimesch, Linz a.D.

160. **Ectoedemia sericopeza** (Zeller)

Joannis (1915) came to the conclusion that *Oecophora sericopezella* Duponchel is a senior synonym of *Nepticula turbidella* Zeller on the basis of material in Duponchel's collection. Indeed, Duponchel's description and figure do not fit *sericopeza* at all, but *sericopezella* must be regarded as an unjustified emendation and therefore an objective synonym of *Lyonetia sericopeza* Zeller. Therefore, material in Duponchel's collection is of no importance and must be regarded as a misidentification. Strictly following Joannis would cause great nomenclatorial confusion.

175. **Ectoedemia nowakowskii** (Toll) comb. n.

Unfortunately only females are known from this species. I examined the female genitalia and venation of a paratype (coll. IPAK), and they show that the species is not *Stigmella*, but *Ectoedemia* sensu lato. Since it lacks any of the diagnostic characteristics of other subgenera it is tentatively placed in *Fomoria*.

## Check-list

Species preceded by an asterisk are dealt with in the taxonomic comments.

Familia NEPTICULIDAE Stainton, 1854

Type-genus: *Nepticula* Heyden (junior subjective synonym of *Stigmella* Schrank)  
Stigmellidae Hampson, 1918

Subfamilia NEPTICULINAE Stainton

Tribus NEPTICULINI Stainton

Genus **Simplimorpha** Scoble, 1983

Type-species: *Stigmella lanceifoliella* Vári, 1955 (or. des., monot.)

- \*1. *S. promissa* (Staudinger, 1870) **comb. n.**  
*robiniella* (Gustafsson, 1973) **syn. n.**

*Cotinus cogyria*, *Pistacia*, *Rhus coriaria*

Genus **Enteucha** Meyrick, 1915

Type-species: *Enteucha cyanochlora* Meyrick, 1915 (or. des., monot.)

*Johanssonia* Borkowski, 1972 nec Selensky, 1914 **syn. n.**

Type-species: *Nepticula acetosae* Stainton, 1854 (or. des., monot.)

*Artaversala* Davis, 1978 **syn. n.**

Type-species: *Artaversala gilvafascia* Davis, 1978 (or. des., monot.)

*Oligoneura* Davis, 1978 nec Bigot, 1878 **syn. n.**

Type-species: *Oligoneura basidactyla* Davis, 1978 (or. des., monot.)

*Manoneura* Davis, 1979 **syn. n.** (replacement name for *Oligoneura* Davis)

*Johanssoniella* Koçak, 1981 **syn. n.** (replacement name for *Johanssonia* Borkowski)

- \*2. *E. acetosae* (Stainton, 1854) **comb. n.**  
*acetosella* (Doubleday, 1859)  
*arifoliella* (Klimesch, 1940)  
‡ *altvateri* (Skala, 1941) 'infrasubs.'

*Rumex acetosa*, *R. acetosella*, *R. arifolius*

Genus **Stigmella** Schrank, 1802

Type-species: *Phalaena (Tinea) anomalella* Göze, 1783 (subsequent des. Walsingham 1907)

*Nepticula* Heyden, 1843

Type-species: *Tinea aurella* Fabricius, 1775 (subsequent des. Walsingham 1907)

*Dysnepticula* Börner in Brohmer, 1925

Type-species: *Phalaena (Tinea) anomalella* Göze, 1783 (or. des.)

*Astigmella* Puplesis, 1984 **syn. n.**

Type-species: *Astigmella dissona* Puplesis, 1984 (or. des.)

**lapponica** group Johansson, 1971

? *procrastinella* group Wilkinson & Scoble, 1979

- |   |               |
|---|---------------|
| 3. <i>S. naturnella</i> (Klimesch, 1936)          | <i>Betula</i> |
| 4. <i>S. lapponica</i> (Wocke, 1862)              | <i>Betula</i> |
| <i>lapponicella</i> (Porritt, 1886)               |               |
| ? <i>lusatica</i> (Schütze, 1904)                 |               |
| <i>vossensis</i> (Grönlien, 1932)                 |               |
| 5. <i>S. confusella</i> (Wood & Walsingham, 1894) | <i>Betula</i> |

**freyella** group Lempke, 1976

- |   |   |
|---|---|
| 6. <i>S. freyella</i> (Heyden, 1858)    | <i>Calystegia</i> , <i>Convolvulus</i> spp.       |
| 7. <i>S. diniensis</i> (Klimesch, 1975) | <i>Helianthemum</i> sp., <i>Fumana procumbens</i> |

**paliurella** group

- \*8. *S. paliurella* (Klimesch, 1940) *Paliurus spina-christi*  
 ‡ *paliurella* Gerasimov, 1937  
 9. *S. zizyphi* Walsingham, 1911 *Zizyphus lotus*

**tiliae** group Johansson, 1971

10. *S. tiliae* (Frey, 1856) *Tilia*

**betulicola** group Johansson, 1971

*corylifoliella* group Wilkinson & Scoble,  
1979

11. *S. betulicola* (Stainton, 1856) *Betula*  
*betulicolella* (Doubleday, 1859)  
*nanivora* (Petersen, 1930)  
 12. *S. nivenburgensis* (Priessecker, 1942) *Salix* spp.  
 13. *S. discidia* Schoorl & Wilkinson, 1986 *Betula*  
*distinguenda* sensu Klimesch 1948  
 ? *sakhalinella* Puplesis, 1984  
 14. *S. luteella* (Stainton, 1857) *Betula*  
 ‡ *luteellina* (Skala, 1941)  
 15. *S. glutinosae* (Stainton, 1858) *Alnus*  
*glutinosella* (Doubleday, 1859)  
*distinguenda* (Heinemann, 1862)  
*rubescens* (Heinemann, 1871)  
 ‡ *alniviridis* (Skala, 1939)  
 ‡ *incanae* (Skala, 1939)  
 16. *S. alnetella* (Stainton, 1856) *Alnus*  
 17. *S. microtheriella* (Stainton, 1854) *Carpinus, Corylus, Ostrya*

**prunetorum** group Johansson, 1971

*prunifoliella* group Newton & Wilkinson,  
1982

- \*18. *S. prunetorum* (Stainton, 1855) *Prunus* spp.  
*dimidiatella* (Herrich-Schäffer, 1855)  
*perpusilrella* (Herrich-Schäffer, 1855)  
*prunetella* (Doubleday, 1859)  
*punctella* (Threlfall, 1884)  
 ‡ *aviella* (Skala, 1934)

**ultima** group Puplesis, 1984

19. *S. aceris* (Frey, 1857) *Acer* spp.  
*szocsi* (Klimesch, 1956)

**malella** group Johansson, 1971

20. *S. malella* (Stainton, 1854) *Malus, (Prunus ssp.)*  
 ‡ *prunicola* (Skala, 1939)  
 21. *S. rhamnella* (Herrich-Schäffer, 1860) *Rhamnus* spp.  
*rhamniumilae* (Klimesch, 1950)  
 22. *S. rhamnophila* (Amsel, 1934) *Rhamnus lycioides, R. saxatilis*  
 23. *S. crenulatae* (Klimesch, 1975) **comb. n.** *Rhamnus crenulata*



24. *S. alaternella* (Le Marchand, 1937)  
 25. *S. catharticella* (Stainton, 1853)  
 26. *S. pyrellicola* (Klimesch, 1978)

*Rhamnus alaternus*  
*Rhamnus catharticus*  
*Rhamnus pyrellus*

**anomaella** group Johansson, 1971  
*rosaefoliella* group Wilkinson & Scoble,  
 1979 partim

- \*27. *S. anomalella* (Göze, 1783)  
*grisearosae* (Retzius, 1783)  
*penicilla* (Thunberg, 1794)  
*rosella* (Schrank, 1802)  
*aeneella* (Heinemann, 1862)  
*fletcheri* (Tutt, 1899)  
 ? *laticuniculella* (Sauber, 1904)  
*zermattensis* (Weber, 1937) **syn. n.**  
 ? *helbigi* (Hartig, 1941)  
*caulescentella* Klimesch, 1946 **syn. n.**  
 \*28. *S. spinosissimae* (Waters, 1928)  
 29. *S. centifoliella* (Zeller, 1848)  
*hodgkinsoni* (Stainton, 1884)

*Rosa*, *Sanguisorba*, *Potentilla caulescens*

*Rosa pimpinellifolia*  
*Rosa*, *Sanguisorba*

**ulmivora** group Johansson, 1971

30. *S. ulmivora* (Fologne, 1860)  
*ulmifoliae* (Hering, 1931)  
*ulmicola* (Hering, 1932)  
 31. *S. ulmiphaga* (Preissecker, 1942)  
 32. *S. viscerella* (Stainton, 1853)  
*tauromeniella* (Groschke, 1944)

*Ulmus*

*Ulmus*

*Ulmus*

**sanguisorbae** group

33. *S. sanguisorbae* (Wocke, 1865)  
 34. *S. muricatella* (Klimesch, 1978) **comb. n.**  
 35. *S. thuringiaca* (Petry, 1904)  
*nickerli* (Rebel, 1908)  
 \*36. *S. spinosissimae* sensu Klimesch 1951

*Sanguisorba officinalis*  
*Sanguisorba minor*  
*Potentilla* spp., *Filipendula*, *Agrimonia*,  
*Fragaria*, *Sanguisorba*  
*Rosa pimpinellifolia*

**paradoxa** group Emmet, 1976

*nitidella* group Johansson, 1971  
*crataegifoliella* group Wilkinson & Scoble,  
 1979 partim

37. *S. paradoxa* (Frey, 1858)  
*nitidella* (Heinemann, 1862)  
 \*38. *S. pyravora* Gustafsson, 1981

*Crataegus*

*Pyrus syriaca*

**oxyacanthella** group Johansson, 1971

*crataegifoliella* group Wilkinson & Scoble,  
 1979 partim

39. *S. torminalis* (Wood, 1890)  
 40. *S. regiella* (Herrich-Schäffer, 1855)  
 ‡ *corvimontana* (Hering, 1935)

*Sorbus torminalis*  
*Crataegus*, *Mespilus germanica*

41. *S. crataegella* (Klimesch, 1936) *Crataegus*  
*gratiosella* sensu Wood 1894
42. *S. hahniella* (Wörz, 1937) *Sorbus torminalis*
43. *S. magdalenae* (Klimesch, 1950) *Sorbus* spp., *Cotoneaster*  
*nylandriella* auctt.
44. *S. nylandriella* (Tengström, 1848) *Sorbus aucupariae*, *Cotoneaster*  
*aucupariae* (Frey, 1857)  
*aucupariella* (Porritt, 1883)
45. *S. oxyacanthella* (Stainton, 1854) Rosaceae: Maloideae, *Prunus* spp.  
*aeneella* auctt.  
*oxyacanthaecolella* (Doubleday, 1859)  
*cotoneastri* (Sorhagen, 1922)  
‡ *oxysorbi* (Skala, 1933)  
‡ *oxymalella* (Skala, 1933)  
? ‡ *chaenomelis* (Skala, 1936)  
? ‡ *mespili* (Skala, 1940)
46. *S. pyri* (Glitz, 1865) *Pyrus*
47. *S. minusculella* (Herrich-Schäffer, 1855) *Pyrus*  
? *stettinensis* (Heinemann, 1871)  
*chalybeia* (Braun, 1914)  
*embonella* (Klimesch, 1978)
48. *S. desperatella* (Frey, 1856) *Malus*, *Pyrus*  
*pyricola* (Wocke, 1877)
- hybnerella** group Johansson, 1971
- \*49. *S. hybnerella* (Hübner, 1796) *Crataegus*, *Amelanchier ovalis*, *Cotoneaster*  
*ampelipennella* (Hübner, [1825])  
*posticella* (Haworth, 1828)  
*gratiosella* (Duponchel, [1843])  
*ignobilella* (Stainton, 1849)  
*latifasciella* (Herrich-Schäffer, 1855)  
*mespilicola* sensu Klimesch 1948
- \*50. *S. mespilicola* (Frey, 1856) *Sorbus* spp., *Amelanchier* ?, *Cotoneaster*  
*ariella* (Herrich-Schäffer, 1860)  
*cotoneastri* sensu Klimesch 1948
- floslactella** group Johansson, 1971
51. *S. floslactella* (Haworth, 1828) *Corylus*, *Ostrya*, (*Carpinus*)  
‡ *interrupta* Dufrane, 1949 'infrasubs.'
52. *S. carpinella* (Heinemann, 1862) *Carpinus*, *Ostrya*
53. *S. tityrella* (Stainton, 1854) *Fagus*  
*hemargyrella* sensu Zeller 1848  
*turicella* (Herrich-Schäffer, 1855)  
*turicensis* (Frey, 1856)
- salicis** group Johansson, 1971  
*fuscotibiella* group Newton & Wilkinson,  
1982
- \*54. *S. salicis* (Stainton, 1854) *Salix* spp.  
*salicella* (Herrich-Schäffer, 1855)

- vimineticola* (Frey, 1856) **syn. n.**  
*salicivorella* (Doubleday, 1859)  
*uniformis* (Heinemann, 1871)  
‡ *semipictella* (Steudel, 1882) 'infrasubs.'  
? *dewitziella* (Sorhagen, 1885)  
‡ *februella* (Crombrugge, 1907) 'infrasubs.'  
*unicolor* (Müller-Rutz, 1932)  
‡ *crombruggeella* (Dufrane, 1930) 'infrasubs.'  
‡ *interrupta* (Skala, 1933) 'infrasubs.'  
*auritella* (Skala, 1939) **syn. n.**  
*libiezi* Dufrane, 1949 **syn. n.**  
*arbusculae* (Klimesch, 1951)
55. *S. myrtillella* (Stainton, 1857) *Vaccinium myrtillella*, *V. uliginosum*  
‡ *uliginosi* (Skala, 1941)
- \*56. *S. zelleriella* (Snellen, 1875) *Salix repens*, *S. lapponum*  
*repentiella* (Wolff, 1955)  
*lappovimella* (Svensson, 1976)
- \*57. *S. benanderella* (Wolff, 1955) *Salix repens*, *S. phylicifolia*  
‡ *scandicella* (Jonasson in Krogerus et al., 1971)
58. *S. obliquella* (Heinemann, 1862) *Salix* spp.  
*vimineticola* auctt.  
? *wockeella* (Heinemann, 1871)  
*diversa* (Glitz, 1872)  
*babylonicae* (Hartig, 1949)
59. *S. pallidiciliella* Klimesch, 1946 *Salix purpurea*  
‡ *purpureae* (Skala, 1948)
- \*60. *S. trimaculella* (Haworth, 1828) *Populus* spp.  
*rufella* (Zeller, 1839)  
*populella* (Herrich-Schäffer, 1855)  
*albicornella* (Kollar, 1860)  
*populicola* (Sorhagen, 1922)  
*subtrimaculella* Dufrane, 1949
61. *S. assimilella* (Zeller, 1848) *Populus* spp.  
‡ *nigricornella* (Mann, in litt.)  
? *tremulaefoliella* (Sorhagen, 1922)
- sorbi** group Johansson, 1971  
*rosaefoliella* group Wilkinson & Scoble, 1979 partim
62. *S. sorbi* (Stainton, 1861) *Sorbus aucuparia*, *Cotoneaster*, *Malus*,  
*sorbiella* (Porritt, 1883) *Amelanchier*  
*cotoneastrella* (Weber, 1936)
63. *S. plagicolella* (Stainton, 1854) *Prunus* spp., (*Malus*?)  
‡ *avianella* (Skala, 1934)  
‡ *malicola* (Skala, 1939)
- marginicolella** group Johansson, 1971
- \*64. *S. lemniscella* (Zeller, 1839) **comb. n.** *Ulmus*  
*huebnerella* sensu Zeller 1839

*aurella* sensu Zeller 1848  
*marginicolella* (Stainton, 1853) **syn. n.**  
*suberosella* (Toll, 1934) **syn. n.**  
 ‡ *fulvomacula* (Skala, 1936) **syn. n.**

65. *S. continuella* (Stainton, 1856)

*Betula*

**aurella** group Johansson, 1971

\*66. *S. aurella* (Fabricius, 1775)

*nitens* (Fologne, 1862)

*fragariella* (Heinemann, 1862)

*gei* (Wocke, 1871)

? *albicomella* (Heinemann & Wocke, 1876)

‡ *semicolorella* (Eppelsheim, 1891) 'infra-subsp.'

*fruticosella* (Müller-Rutz, 1914)

‡ *geirubi* (Skala, 1940)

*dulcella* auctt. partim

67. *S. auromarginella* (Richardson, 1890)

*Rubus, Fragaria, Geum, Agrimonia, Geranium  
 versicolor* (Greece)

\*68. *S. splendidissima* (Herrich-Schäffer, 1855)

*splendidissima* (Frey, 1856)

*dulcella* (Heinemann, 1862)

? *inaequalis* (Heinemann, 1862)

*saxatilella* (Grönlien, 1932)

‡ ? *peterseniella* (Skala, 1941)

*fragarivora* (Carolsfeld-Krause, 1944)

*fragariella* auctt. partim

*gei* auctt. partim

*Rubus, Agrimonia*

*Rubus, Fragaria, Geum*

\*69. *S. pretiosa* (Heinemann, 1862)

*bollii* (Frey, 1873) **syn. n.**

*gei* auctt. partim

*geimontani* auctt. partim

*tatrensis* Borkowski, 1969

70. *S. geimontani* (Klimesch, 1940)

*Geum* spp., *Rubus*

71. *S. aeneofasciella* (Herrich-Schäffer, 1855)

*aeneofasciata* (Frey, 1856)

*Geum montanum*

*Agrimonia, Potentilla, Fragaria*

72. *S. tormentillella* (Herrich-Schäffer, 1860)

*crantziella* sensu Klimesch 1948

*Potentilla* spp.

73. *S. stelviana* (Weber, 1938)

‡ *stelviana* (Wocke, 1881)

*crantziella* (Weber, 1945)

*Potentilla* spp.

74. *S. dryadella* (Hofmann, 1868)

*Dryas octopetala*

\*75. *S. poterii* (Stainton, 1857)

*poteriella* (Doubleday, 1859)

*comari* (Wocke, 1862)

*geminella* (Frey, 1870)

*palustrella* (Frey, 1870)

*tengstroemi* (Nolcken, 1871)

*occultella* (Heinemann, 1871)

*diffinis* (Wocke, 1874)

? *angustella* (Heinemann & Wocke, 1876)

*serella* (Stainton, 1888)

? *elisabethella* (Szöcs, 1957)

*Sanguisorba, Potentilla* spp., *Rubus chamaemorus*

- \*76. *S. filipendulae* (Wocke, 1871)  
 \*77. *S. ulmariae* (Wocke, 1879)  
 78. *S. lediella* (Schleich, 1867)  
 ‡ *auromarginata* (Petersen, 1930) 'infrasubs.'

*Filipendula vulgaris*  
*Filipendula ulmaria*  
*Ledum palustre*

**pomella** group Johansson, 1971

- \*79. *S. incognitella* (Herrich-Schäffer, 1855)  
**comb. n.**  
*pomella* (Vaughan, 1858) **syn. n.**  
*malli* (Hering, 1932) **syn. n.**  
 80. *S. perpygmaeella* (Doubleday, 1859)  
*pygmaeella* (Haworth, 1828) nec Denis &  
 Schiffermüller, 1775  
 81. *S. azaroli* (Klimesch, 1978) **comb. n.**

*Malus*

*Crataegus*

*Crataegus azarolus*

**amygdali** group

82. *S. amygdali* (Klimesch, 1978) **comb. n.**

*Prunus* spp.

**hemargyrella** group Johansson, 1971

83. *S. hemargyrella* (Kollar, 1832)  
*basalella* (Herrich-Schäffer, 1855)  
*fulgens* (Stainton, 1888)  
 84. *S. speciosa* (Frey, 1857)  
 ‡ *pseudoplatanella* (Skala, 1933)  
*pseudoplatanella* (Weber, 1937)  
 ‡ *monspessulani* (Skala, 1939)  
 85. *S. suberivora* (Stainton, 1869)  
*ilicivora* (Peyerimhoff, 1871)  
*nigra* Dufrane, 1955  
 \*86. *S.* sp. n.  
 87. *S. lonicerarum* (Frey, 1856)  
 ‡ *teutonica* (Skala, 1939)  
 ‡ *lentinensis* (Skala, 1939)  
 ‡ *livonica* (Skala, 1939)

*Fagus*

*Acer pseudoplatanus*, *A. monspessulanum*

*Quercus* spp. (evergreen)

*Quercus coccifera* (Greece)  
*Lonicera xylosteum*, *L. nigra*

**ruficapitella** group Johansson, 1971

- \*88. *S. basiguttella* (Heinemann, 1862)  
*cerricolella* Klimesch, 1946  
 89. *S. svenssoni* (Johansson, 1971)  
 90. *S. zangherii* (Klimesch, 1951)  
 91. *S. szoecsiella* (Borkowski, 1972) **comb. n.**  
 92. *S. macrolepidella* (Klimesch, 1978) **comb. n.**  
 93. *S. dorsiguttella* (Johansson, 1971)  
 94. *S. ruficapitella* (Haworth, 1828)  
 ? *violacella* (Haworth, 1828)  
 ‡ *lamprotornella* (Heyden, in litt.)  
 95. *S. atricapitella* (Haworth, 1828)  
 96. *S. samiatella* (Zeller, 1839)  
 97. *S. roborella* (Johansson, 1971)  
*ruficapitella* auctt.

*Quercus* spp. (deciduous), *Castanea*

*Quercus* spp. (deciduous)

*Quercus cerris*

*Quercus cerris*

*Quercus macrolepis*

*Quercus* spp. (deciduous)

*Quercus* spp. (deciduous)

*Quercus* spp. (deciduous)

*Quercus* spp. (deciduous), *Castanea*

*Quercus* spp. (deciduous)

98. *S. eberhardi* (Johansson, 1971)  
 99. *S. tristis* (Wocke, 1862)

*Quercus* spp. (deciduous, evergreen)  
*Betula nana*

not assigned to species group:

100. *S. styracicolella* (Klimesch, 1978) **comb. n.** *Styrax officinalis*  
 101. *S. abaiella* Klimesch, 1979 *Pyrus*

Tribus TRIFURCULINI Scoble, 1983

Genus **Acalyptris** Meyrick, 1921

Type-species: *Acalyptris psammophricta*  
 Meyrick, 1921 (or. des., monot.)

*Microcalyptris* Braun, 1925 **syn. n.**

Type-species: *Microcalyptris scirpi* Braun,  
 1925 (or. des., monot.)

*Weberia* Müller-Rutz, 1934 nec Robineau-  
 Desvoidy, 1830 **syn. n.**

Type-species: *Weberia platani* Müller-Rutz,  
 1934 (or. des., monot.)

*Niepeltia* Strand, 1934 **syn. n.** (replacement  
 name for *Weberia* Müller-Rutz)

*Weberina* Müller-Rutz, 1934 **syn. n.** (repla-  
 cement name for *Weberia* Müller-Rutz)

102. *A. staticis* (Walsingham, 1907) **comb. n.** *Limonium pectinatum*  
 \*103. *A. sp. n.* *Limoniastrum guyonianum*  
 104. *A. psammophricta* Meyrick, 1921  
 105. *A. loranthella* (Klimesch, 1937) **comb. n.** *Loranthus europaeus*  
 106. *A. platani* (Müller-Rutz, 1934) **comb. n.** *Platanus*  
 107. *A. minimella* (Rebel, 1924) **comb. n.** *Pistacia*  
*lentiscella* (Groschke, 1944)  
 \*108. *A. sp. n.* *Pistacia*  
*minimella* sensu Klimesch 1978 partim  
 109. *A. shafirkanus* (Puplesis, 1984) **comb. n.**  
 110. *A. desertellus* (Puplesis, 1984) **comb. n.**  
 111. *A. repeteki* (Puplesis, 1984) **comb. n.**  
 112. *A. Iovovskyi* (Puplesis, 1984) **comb. n.**  
 113. *A. turanicus* (Puplesis, 1984) **comb. n.**  
 114. *A. falkovitshi* (Puplesis, 1984) **comb. n.**  
 115. *A. turcomanicus* (Puplesis, 1984) **comb. n.**  
 116. *A. vittatus* (Puplesis, 1984) **comb. n.**  
 117. *A. pallens* (Puplesis, 1984) **comb. n.**  
 118. *A. galinae* (Puplesis, 1984) **comb. n.**  
*mesasiaticus* (Puplesis, 1984)

Genus **Trifurcula** Zeller, 1848

Type-species: *Trifurcula pallidella* Zeller,  
 1848 (subsequent des. Beirne 1945)

Subgenus **Glaucolepis** Braun, 1917

Type-species: *Nepticula saccharella* Braun,  
 1912 (or. des., monot.)

*Fedalmia* Beirne, 1945 **syn. n.**

Type-species: *Nepticula headleyella* Stainton, 1854 (or. des., monot.)

119. *T. alypella* Klimesch, 1975  
 120. *T. globulariae* Klimesch, 1975  
 121. *T. salicinae* Klimesch, 1975  
 \*122. *T. zollikofferiella* (Chrétien, 1914) **comb. n.**  
 \*123. *T. headleyella* (Stainton, 1854) *Prunella*  
*argyrostigma* (Frey, 1856)  
*dubiella* (Hauder, 1912)  
*rodella* Svensson, 1982 **syn. n.**  
 124. *T. satirejae* (Parenti, 1963) **comb. n.**  
 125. *T. albiflorella* Klimesch, 1978  
 \*126. *T. thymi* (Szöcs, 1965) **comb. n.**  
 127. *T. teuciella* (Chrétien, 1914) **comb. n.**  
 128. *T. micromeriae* (Walsingham, 1907)  
 129. *T. sanctaerucis* (Walsingham, 1907)  
 130. *T. hamirella* (Chrétien, 1915) **comb. n.**  
 131. *T. stoechadella* Klimesch, 1975  
 132. *T. rosmarinella* (Chrétien, 1914)  
 133. *T. trilobella* Klimesch, 1978  
 134. *T. sanctibenedicti* Klimesch, 1979  
 135. *T. bupleurella* (Chrétien, 1907) **comb. n.**  
 136. *T. bleonella* (Chrétien, 1904) **comb. n.**

*Globularia alypum*  
*Globularia meridionalis*  
*Globularia salicina*  
*Launaea nudicaulis*

*Prunella*

*Calamintha*  
*Nepeta nuda*  
*Thymus* spp.  
*Teucrium chamaedryx*  
*Micromeria* spp.  
*Lavandula abrotanoides*

*Lavandula stoechas*  
*Rosmarinus officinalis*  
*Salvia triloba*  
*Bupleurum fruticosum*, *B. spinosum*  
*Bupleurum fruticosum*, *B. rigidum*  
*Linum narbonense*

Subgenus *Levarchama* Beirne, 1945

Type-species: *Nepticula cryptella* Stainton, 1856 (or. des.)

137. *T. cryptella* (Stainton, 1856) *Lotus* spp., *Coronilla* spp., *Hippocrepis*  
*? trifolii* (Sorhagen, 1885)  
 \*138. *T. eurema* (Tutt, 1899) *Lotus* spp., *Dorycnium*, *Tetragonolobus maritimus*  
*dorycniella* (Suire, 1928) **syn. n.**  
*gozmanyi* (Szöcs, 1959) **syn. n.**  
 139. *T. ortneri* (Klimesch, 1951) **comb. n.**  
 140. *T. ridiculosa* (Walsingham, 1907)  
 141. *T. anthyllidella* Klimesch, 1975

*Coronilla* spp.  
*Lotus* spp.  
*Anthyllis cytisoides*

Subgenus *Trifurcula* s. str.

- \*142. *T. pallidella* (Duponchel, [1843]) *Lembotropis nigricans*  
*pallidella* Zeller, 1848  
 ‡ *pallidulella* (Herrich-Schäffer, [1853])  
*incognitella* Toll, 1936 **syn. n.**  
 143. *T. immundella* (Zeller, 1839) *Cytisus scoparius*, *Chamaecytisus* sp.  
*squamataella* Stainton, 1849  
 \*144. *T. serotinella* Herrich-Schäffer, 1855 *Chamaespartium sagittale*  
*confertella* Fuchs, 1895 **syn. n.**  
 145. *T. orientella* Klimesch, 1953  
 146. *T. aurella* Rebel, 1933  
 \*147. *T. beirnei* Puplesis, 1984 *Genista* spp.  
*pallidella* sensu Beirne 1945

148. *T. maxima* Klimesch, 1953 ? *Cytisus scoparius*  
 149. *T. griseella* Wolff, 1957 ? *Lotus*

Genus **Parafomoria** van Nieuwerkerken, 1983

Type-species *Nepticula helianthemella*  
 Herrich-Schäffer, 1860 (or. des.)  
 ‡ *Parafomoria* Borkowski, 1975

150. *P. cistivora* (Peyerimhoff, 1871) *Cistus* spp.  
 151. *P. pseudocistivora* van Nieuwerkerken, 1983 *Cistus* spp.  
*cistivora* auctt. partim  
 152. *P. helianthemella* (Herrich-Schäffer, 1860) *Helianthemum* spp.  
 153. *P. halimivora* van Nieuwerkerken, 1985 *Halimium* spp.  
 154. *P. liguricella* (Klimesch, 1946) *Cistus albidus*  
 155. *P. ladaniphila* (Mendes, 1910) *Cistus ladanifer*  
 156. *P. tingitella* (Walsingham, 1904) *Tuberaria lignosa*

Genus **Bohemannia** Stainton, 1859

Type-species: *Nepticula quadrimaculella*  
 Boheman, 1853 (monot.)  
*Scoliaula* Meyrick, 1895 (replacement name  
 for *Bohemannia* Stainton)

157. *B. pulverosella* (Stainton, 1849) *Malus*  
 ‡ *cineretella* (Frey, in litt.)  
 158. *B. quadrimaculella* (Boheman, 1853) *Alnus glutinosa*  
 \*159. *B. auriciliella* (Joannis, 1908) **comb. n.**  
*bradfordi* (Emmet, 1974) **syn. n.**

Genus **Ectoedemia** Busck, 1907

Type-species: *Ectoedemia populella* Busck,  
 1907 (or. des., monot.)

Subgenus **Etainia** Beirne, 1945 **stat. n.**

Type-species: *Lyonetia sericopeza* Zeller,  
 1839 (or. des.)  
*Obrussa* Braun, 1915 nec Saalmüller, 1891  
 Type-species: *Nepticula ochrefasciella*  
 Chambers, 1873

- \*160. *E. sericopeza* (Zeller, 1839) **comb. n.** *Acer platanoides*  
*sericopezella* (Duponchel, [1843])  
*maryella* (Duponchel, [1843])  
*acerella* (Goureau, 1860)  
 161. *E. louisella* (Sircom, 1849) **comb. n.** *Acer campestre*  
*sphendarni* (Hering, 1937)  
 162. *E. decentella* (Herrich-Schäffer, 1855) *Acer pseudoplatanus*, *A. monspessulanum*  
**comb. n.**  
*monspessulanella* (Jäckh, 1951)  
 163. *E. albibimaculella* (Larsen, 1927) **comb. n.** *Arctostaphylos uva-ursi*

Subgenus **Laqueus** Scoble, 1983

Type-species: *Nepticula grandinosa*  
 Meyrick, 1911 (or. des.)



164. *E. nigrifasciata* (Walsingham, 1907)  
**comb. n.**
165. *E. vincamajorella* (Hartig, 1964) **comb. n.**
166. *E. euphorbiella* (Stainton, 1869) **comb. n.**
167. *E. tergestina* (Klimesch, 1940) **comb. n.**
168. *E. jubae* (Walsingham, 1907) **comb. n.**
- Periploca laevigata*
- Vinca major*
- Euphorbia dendroides*
- Euphorbia fragifera*
- Euphorbia* spp.

Subgenus **Fomoria** Beirne, 1945Type-species: *Nepticula weaveri* Stainton, 1855 (or. des.)

169. *E. weaveri* (Stainton, 1855)  
*weaverella* (Doubleday, 1859)  
‡ *fuliginella* (Vári, 1947) 'infrasubs.'
170. *E. septembrella* (Stainton, 1849)
171. *E. deschkai* (Klimesch, 1978) **comb. n.**
172. *E. luisae* (Klimesch, 1978) **comb. n.**
173. *E. variicapitella* (Chrétien, 1908) **comb. n.**
174. *E. groschkei* (Skala, 1943) **comb. n.**
- \*175. *E. nowakowskii* (Toll, 1957) **comb. n.**
- Vaccinium vitis-idaea*
- Hypericum* spp.
- Hypericum* spp.
- Hypericum calycinum*
- Hypericum* spp.
- Vitex agnus-castus*
- Peucedanum cervaria*

Subgenus **Zimmermannia** Hering, 1940Type-species: *Ectoedemia liebwerdella* Zimmermann, 1940 (or. des., monot.)

176. *E. atrifrontella* (Stainton, 1851)  
*heringiella* (Doets, 1947)
177. *E. liebwerdella* Zimmermann, 1940
178. *E. longicaudella* Klimesch, 1953  
*peiuii* (Nemes, 1972)
179. *E. hispanica* van Nieukerken, 1985
180. *E. monemvasiae* van Nieukerken, 1985
181. *E. amani* Svensson, 1966
182. *E. nuristanica* van Nieukerken, 1985
183. *E. liguricella* Klimesch, 1953
- Quercus* spp.
- Fagus sylvatica*
- Quercus* spp.
- Ulmus*
- ? *Quercus* sp.

Subgenus **Ectoedemia** s. str.*Dechtiria* Beirne, 1945Type-species: *Tinea subbimaculella* Haworth, 1828 (or. des.)**populella** group Wilkinson & Scoble, 1979

184. *E. intimella* (Zeller, 1848)
185. *E. hannoverella* (Glitz, 1872)
186. *E. turbidella* (Zeller, 1848)  
*argyropezella* (Herrich-Schäffer, 1855)  
*populialbae* (Hering, 1935)  
*marionella* (Ford, 1950)
187. *E. klimeschi* (Skala, 1933)  
*niculescui* (Nemes, 1970)
188. *E. argyropeza* (Zeller, 1839)  
*apicella* (Stainton, 1854)  
*turbidella* sensu Herrich-Schäffer 1855
- Salix* spp.
- Populus nigra*, hybrids
- Populus alba*, *P. canescens*
- Populus alba*
- Populus tremula*

- argyropezella* (Doubleday, 1859)  
*turbulentella* (Wocke, 1861)  
*simplicella* (Heinemann, 1862)  
‡ *morosella* (Steudel & Hofmann, 1882)  
‘infrasubs.’  
‡ *houzeaui* (Dufrane, 1942) ‘infrasubs.’

**preisseckeri** group van Nieukerken, 1985

189. *E. preisseckeri* (Klimesch, 1941) *Ulmus*

**suberis** group van Nieukerken, 1985

190. *E. caradjai* (Groschke, 1944) *Quercus* spp.  
191. *E. sp.* (specimen 1843) van Nieukerken 1985  
192. *E. suberis* (Stainton, 1869) *Quercus* spp. (evergreen)  
*viridella* (Mendes, 1910)  
193. *E. andalusiae* van Nieukerken, 1985 *Quercus coccifera*  
194. *E. aegilopidella* (Klimesch, 1978) *Quercus macrolepis*

**subbimaculella** group van Nieukerken, 1985

195. *E. quinquella* (Bedell, 1848) *Quercus* spp. (deciduous)  
196. *E. algeriensis* van Nieukerken, 1985 *Quercus rotundifolia*  
197. *E. gilvipennella* (Klimesch, 1946) *Quercus cerris*  
198. *E. leucothorax* van Nieukerken, 1985  
199. *E. haraldi* (Soffner, 1942) *Quercus* spp. (evergreen)  
*prinophyllella* (Le Marchand, 1946)  
‡ *ilicella* (Constant [no year])  
200. *E. ilicis* (Mendes, 1910) *Quercus* spp. (evergreen)  
201. *E. heringella* (Mariani, 1939) *Quercus* spp. (evergreen)  
‡ *alliatiae* (Mariani, 1939) ‘infrasubs.’  
202. *E. alnifoliae* van Nieukerken, 1985 *Quercus alnifolia*  
203. *E. nigrosarsella* (Klimesch, 1940) *Quercus* spp. (deciduous)  
204. *E. albifasciella* (Heinemann, 1871) *Quercus* spp. (deciduous)  
*argyropeza* sensu Stainton 1854  
*subapicella* (Stainton, 1886)  
205. *E. cerris* (Zimmermann, 1944) *Quercus cerris*  
*montissancti* (Skala, 1948)  
206. *E. pubescivora* (Weber, 1937) *Quercus pubescens*  
207. *E. contorta* van Nieukerken, 1985 *Quercus* spp. (deciduous)  
208. *E. subbimaculella* (Haworth, 1828) *Quercus* spp. (deciduous)  
*nigrociliella* (Stephens, 1834)  
*cursoriella* (Zeller, 1848)  
209. *E. heringi* (Toll, 1934) *Quercus* spp. (deciduous), *Castanea*  
*quercifoliae* (Toll, 1943)  
*sativella* (Klimesch, 1936)  
*zimmermanni* (Hering, 1942)  
210. *E. liechtensteini* (Zimmermann, 1944) *Quercus cerris*  
211. *E. phyllotomella* (Klimesch, 1946) *Quercus cerris*  
212. *E. sp.* (specimen 1375) van Nieukerken 1985

**terebinthivora** group van Nieukerken, 1985213. *E. terebinthivora* (Klimesch, 1975)*Pistacia terebinthus***angulifasciella** group Wilkinson et al., 1983

214. *E. erythrogenella* (Joannis, 1908)  
‡ *juncta* (Dufrane, 1949) 'infrasubs.'
215. *E. spiraeae* Gregor & Povolný, 1983  
‡ *spiraeae* (Gregor & Povolný, 1955)
216. *E. agrimoniae* (Frey, 1858)  
*agrimoniella* (Herrich-Schäffer, 1860)
217. *E. hexapetalae* (Szöcs, 1957)
218. *E. angulifasciella* (Stainton, 1849)  
*schleichiella* (Frey, 1870)  
? *brunniella* (Sauber, 1904)  
*utensis* (Weber, 1937)  
*minorella* (Zimmermann, 1944)
219. *E. atricollis* (Stainton, 1857)  
*atricolella* (Doubleday, 1859)  
*aterrima* (Wocke, 1865)  
‡ *malivora* (Toll, 1936)  
‡ *aterrimoides* (Skala, 1940)  
‡ *prunivora* (Skala, 1941)  
*staphyleae* (Zimmermann, 1944)
220. *E. arcuatella* (Herrich-Schäffer, 1855)  
*arcuata* (Frey, 1856)  
*arcuosella* (Doubleday, 1859)
221. *E. rubivora* (Wocke, 1860)
222. *E. spinosella* (Joannis, 1908)
223. *E. mahalebella* (Klimesch, 1936)

*Rubus* spp.*Spiraea media**Agrimonia, Aremonia**Filipendula vulgaris**Rosa, Sanguisorba, Filipendula vulgaris*Rosaceae: Maloideae, *Prunus* spp., *Staphylea pinnata**Fragaria, Potentilla* spp.*Rubus* spp.*Prunus* spp.*Prunus* spp.**occultella** group van Nieukerken, 1985

224. *E. occultella* (Linnaeus, 1767)  
*strigilella* (Thunberg, 1794)  
? *mucidella* (Hübner, [1817])  
*mediofasciella* (Haworth, 1828)  
*argentipedella* (Zeller, 1839)
225. *E. minimella* (Zetterstedt, 1839)  
*mediofasciella* sensu Bradley 1972  
*woolhopiella* (Stainton, 1887)  
*viridicola* (Weber, 1937)

*Betula, (Salix pentandra)**Betula, Alnus viridis, (Corylus)*

### Species-group names within Nepticulidae of unknown or doubtful status

The names are given in alphabetical order and are followed by author, year and genus of original combination.

#### A. Nomenclatorially available names

- arbatella* Chrétien, 1922, *Nepticula*  
*aureocapitella* Millière, 1870, *Nepticula* (probably *S. ruficapitella* group)  
*bistrimaculella* Heyden, 1861, *Nepticula* (probably *E. subbimaculella* or *heringi*)  
*castanella* Stainton, 1859, *Nepticula* (probably *S. ruficapitella* group)  
*commatella* Schrank, 1802, *Tinea* (cf. Stainton 1855: 264)  
*concolorella* Tengström, 1848, *Lyonetia*  
*discrepans* Sorhagen, 1922, *Nepticula* (unidentifiable species of *S. ruficapitella* group)  
*fagella* Herrich-Schäffer, 1855, *Nepticula*  
*fagi* Frey, 1856, *Nepticula*  
*flexuosella* Fologne, 1861, *Nepticula*  
*fossilis* Heyden, 1862, *Nepticula* (fossil mine on *Juglans acuminata*)  
*gilvella* Rössler, 1866, *Nepticula* (probably *Ectoedemia subbimaculella* group)  
*ligustrella* Rössler, 1866, *Nepticula*  
*minimella* costa, 1836, *Tinea* (preoccupied) (cf. Tremewan 1977: 224)  
*nigrobrunella* Groschke, 1939, *Nepticula*  
*nobilella* Heinemann & Wocke, 1876, *Nepticula*  
*penicillata* Heinemann & Wocke, 1876, *Nepticula*  
*rosarum* Sorhagen, 1922, *Nepticula* (= *anomaella* or *centifoliella*)  
*rubicurrens* Walsingham, 1907, *Stigmella* (? = *aurella*)  
*rufifrontella* Caradja, 1920, *Trifurcula*  
*subnitidella* Duponchel, [1843], *Elachista* (= *subnitidella* Zeller, 1848)  
*viridissimella* Caradja, 1920, *Nepticula*

#### B. Nomenclatorially unavailable names

- apocynella* Gerasimov, 1937, *Nepticula* (mines on *Apocynum sibiricum*)  
*amseli* Skala, 1941, *Nepticula* (mines on *Zizyphus*)  
*brunensis* Skala, 1939, *Nepticula* (mines on *Fagus*)  
*buhri* Skala, 1938, *Nepticula* (mines on *Rosa*)

- gracilivora* Skala, 1942, *Nepticula* (mines on *Ulmus*)  
*ruficastaneae* Skala, in litt., *Nepticula* (mines on *Castanea*)  
*sorbifoliella* Skala, 1939, *Nepticula* (mines on *Sorbus*)  
*tentationis* Hoffmann, 1893, *Nepticula* (fantasy-name of non-existing species)  
*ulmi* Skala, 1934, *Nepticula* (mines on *Ulmus*)

### Systematic catalogue of hostplants of Western Palaearctic Nepticulidae

The plants are listed in the same order as Tutin et al. (1964 – 1976), the Nepticulidae species, feeding on it, by their number.

#### SALICACEAE

- Salix* spp.: 12, 54, 58, 184  
*S. pentandra* L.: 184, (224)  
*S. phylicifolia* L.: 57, 184  
*S. repens* L., s. l.: 56, 57  
*S. lapponum* L.: 56  
*S. purpurea* L.: 59  
*S. amplexicaulis* Bory: ?59  
*Populus* spp.: 60, 61  
*P. alba* L.: ?61, 186, 187  
*P. canescens* (Aiton) Sm.: ?61, 186  
*P. tremula* L.: 61, 188  
*P. nigra* L.: 60, 185  
*P. x canadensis* Moench: 60, 185

#### MYRICACEAE

- Myrica gale* L.: ?54

#### BETULACEAE

- Betula* spp.: 3, 4, 5, 11, 13, 14, 65, 224, 225  
*B. nana* L.: 4, 5, 11, 14, 99, 224, 225  
*Alnus* spp.: 15, 16  
*A. viridis* (Chaix) DC. in Lam. & DC.: 15, 225  
*A. glutinosa* (L.) Gaertner: 15, 16, 158  
*Carpinus* spp.: 17, 51, 52  
*Ostrya carpinifolia* Scop.: 17, 51, 52  
*Corylus* spp.: 17, 51, (225)

#### FAGACEAE

- Fagus* spp.: 53, 83, 177  
*Castanea sativa* Miller: 88, 96, 204, 209  
*Quercus* spp. (deciduous): 88, 89, 93, 94, 95, 96, 97, 98, 176, 178, 190, 195, 203, 204, 206, 207, 208, 209  
*Quercus* spp. (evergreen): 85, 86, 98, ?183, ?190, 192, 193, 196, ?198, 199, 200, 201

*Q. alnifolia* Poech: 201, 202  
*Q. macrolepis* Kotschy: 92, 194  
*Q. cerris* L.: 88, 90, 91, ?190, 197, 205, ?208, 210, 211

## ULMACEAE

*Ulmus* spp.: 30, 31, 32, 64, 181, 189  
*Zelkova crenata* Spach (= *carpinifolia* Dippel):  
*Stigmella* sp., Kaukasus (Skala 1941)

## LORANTHACEAE

*Loranthus europaeus* Jacq.: 105

## POLYGONACEAE

*Rumex acetosella* L.: 2  
*R. acetosa* L.: 2  
*R. arifolius* All.: 2

## PLATANACEAE

*Platanus* spp.: 106

## ROSACEAE

*Spiraea media* F. Schmidt: 35, 215  
*Filipendula vulgaris* Moench: 35, 76, 217, 218  
*F. ulmaria* L.: 77  
*Rubus* spp.: 66, 67, 68, 69, 214, 221  
*R. chamaemorus* L.: 75, 221  
*Rosa* spp.: 27, 28, 29, 36, 218  
*Agrimonia eupatoria* L.: 35, 66, 67, 71, 216  
*Aremonia agrimonoides* (L.) DC.: 66, 216  
*Sanguisorba* spp.: 27, 29, 33, 34, 35, 75, 216  
*Dryas octopetala* L.: 74  
*Geum* spp.: 66, 68, 69  
*G. montanum* L.: 69, 70  
*Potentilla* spp.: 35, 71, 72, 73, 75, 220  
*P. caulescens* L.: 27  
*Fragaria* spp.: 35, 66, 68, 71, 220  
*Chaenomeles speciosa* (Sweet) Nakai: ?45  
*Pyrus* spp.: 38, 45, 46, 47, 101, 219  
*Malus* spp.: 20, 45, 48, 62, ?63, 79, 157, 219  
*Sorbus* spp.: 43, 45, 50, ?219  
*S. aucuparia* L.: 43, 44, 45, 62  
*S. torminalis* (L.) Crantz.: 39, 42, 50  
*Amelanchier ovalis* Med.: 49, ?50  
*Amelanchier* sp.: 62  
*Cotoneaster* spp.: 43, 44, 45, 49, 50, 62, ?78 9  
*Mespilus germanica* L.: 40, 45, ?49, 219  
*Crataegus* spp.: 37, 40, 41, 45, 49, 80, 219  
*C. azarolus* L.: 81  
*Prunus* spp.: 18, (20), 45, 63, 82, 219, 222, 223  
*P. dulcis* (Miller): 82, 222

## LEGUMINOSAE

*Lembotropis nigricans* (L.) Griseb.: ?142  
*Cytisus scoparius* (L.) Link: 143, ?148

*Chamaecytisus* sp.: 143  
*Genista* spp.: 147  
*Chamaespartium sagittale* (L.) P. Gibbs: 144  
*Lygos sphaerocarpica* (L.) Heywood: *Trifurcula*  
(s.str.) sp. (Spain)  
*Dorycnium* spp.: 138  
*Lotus* spp.: 137, 138, 140, ?149  
*Tetragonolobus maritimus* (L.) Roth.: 138  
*Anthyllis cytisoides* L.: 141  
*A. hermanniae* L.: *Trifurcula* (*Levarchama*) sp.  
(Corsica, Greece)  
*Coronilla emerus* L.: 137  
*C. vaginalis* Lam.: 139  
*C. juncea* L.: *Trifurcula* (s. str.) sp. (Spain, stem  
mines)  
*C. coronata* L.: 139  
*C. varia* L.: 137  
*Hippocrepis comosa* L.: 137

## GERANIACEAE

*Geranium versicolor* L.: 66

## LINACEAE

*Linum narbonense* L.: 136

## EUPHORBIACEAE

*Euphorbia* spp.: 168  
*E. dendroides* L.: 166  
*E. palustris* L.: *Ectoedemia* (*Laqueus*) sp. (Rum-  
ania)  
*E. fragifera* Jan.: 167  
*E. acanthothamnus* Heldr. & Sart. ex Boiss.: *E.*  
(*Laqueus*) sp. (Greece)  
*E. rigida* Bieb.: *E. (Laqueus)* sp. (Sicily)  
*E. characias* L.: *E. (Laqueus)* sp. (Sicily)

## ANACARDIACEAE

*Rhus coriaria* L.: 1  
*Cotinus coggyria* Scop.: 1  
*Pistacia terebinthus* L.: 1, 107, 108, 213  
*P. atlantica* Desf.: 1  
*P. lentiscus* L.: 1, 107, 108

## ACERACEAE

*Acer platanoides* L.: 19, 160  
*Acer campestre* L.: 19, 161  
*A. tataricum* L.: 19  
*A. pseudoplatanus* L.: 84, 162  
*A. opalus* Miller: 84  
*A. monspessulanum* L.: 84, 162

## STAPHYLEACEAE

*Staphylea pinnata* L.: 219

## RHAMNACEAE

- Paliurus spina-christi* Miller: 8  
*Zizyphus lotus* (L.) Lam.: 9  
*Rhamnus* spp.: 21  
*R. alaternus* L.: 24  
*R. lycioides* L.: 22  
*R. saxatilis* Jacq.: 21, 22  
*R. catharticus* L.: 21, 25  
*R. pyrellus* O. Schwartz: 26  
*R. crenulata* Ait.: 23

## TILIACEAE

- Tilia* spp.: 10

## GUTTIFERAE

- Hypericum* spp.: 170, 171, 173  
*H. calycinum* L.: 172

## CISTACEAE

- Cistus* spp.: 150, 151  
*C. albidus* L.: 154  
*C. ladanifer* L.: 150, 155  
*Halimium* spp.: 153  
*Tuberaria lignosa* (Sweet) Samp.: 156  
*Helianthemum* spp.: 7, 152  
*Fumana procumbens* (Dunal) Gren. & Godron: 7

## UMBELLIFERAE

- Bupleurum fruticosum* L.: 134  
*B. spinosum* Gouan: 134  
*B. fruticosum* L.: 135  
*B. rigidum* L.: 135  
*Peucedanum cervaria* (L.) Lapeyr.: 175

## ERICACEAE

- Ledum palustre* L.: 78  
*Arctostaphylos uva-ursi* (L.) Sprengel: 163  
*Vaccinium vitis-idaea* L.: 169  
*V. uliginosum* L.: 55  
*V. myrtillus* L.: 55

## PLUMBAGINACEAE

- Limonium pectinatum* (Aiton) O. Kuntze: 102  
*Limoniastrum guyonianum* Dur.: 103

## STYRACACEAE

- Styrax officinalis* L.: 100

## APOCYNACEAE

- Trachomitum venetum* (L.) Woodson (= *Apocynum sibiricum* Pall.): *S. apocynella*  
*Vinca major* L.: 165

## ASCLEPIADACEAE

- Periploca laevigata* Aiton: 164

## CONVOLVULACEAE

- Calystegia sepium* (L.) R. Br.: 6  
*Convolvulus* spp.: 6

## VERBENACEAE

- Vitex agnus-castus* L.: 174

## LABIATAE

- Teucrium chamaedrys* L.: 127  
*Nepeta nuda* L.: 125  
*Prunella* spp.: 123  
*Calamintha* spp.: 124  
*Micromeria* spp.: 128  
*Origanum vulgare* L.: *Trifurcula (Glaucolepis)* sp. (Greece)  
*Thymus* spp.: 126  
*T. vulgaris* L.: *Trifurcula (Glaucolepis)* sp. (Spain)  
*Mentha rotundifolia* (L.) Hudson: *T. (Glaucolepis)* sp. (Corsica)  
*Rosmarinus officinalis* L.: 132  
*Lavandula stoechas* L.: 131  
*L. abrotanoides* Lam.: 129  
*Salvia triloba* L. fil.: 133

## GLOBULARIACEAE

- Globularia alypum* L.: 119  
*G. meridionalis* (Podp.) O. Schwartz: 120  
*G. salicina* Lam.: 121

## CAPRIFOLIACEAE

- Lonicera xylosteum* L.: 87  
*L. nigra* L.: 87

## COMPOSITAE

- Launaea nudicaulis* (L.) Hooker fil.: 122

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