



THE FIRST ACCOUNT OF SLOVENIAN MOTH FLIES (PSYCHODIDAE, DIPTERA)

Jan Ježek

Department of Entomology, National Museum, Kunratice 1, 148 00 Praha 4, Czech Republic

Received February 25, 2002

Accepted April 18, 2002

Abstract. Two new species of moth flies are presented: *Ulomyia vaseki* sp. n. (Slovenia, Slovakia, Czechia) and *Berdeniella julianensis* sp. n. (Slovenia). New synonymy *Limomormia apicealba* (TONNOIR, 1922) = *Mormia (Limomormia) alpina* WAGNER et SALAMANNA, 1983 syn. n. is proposed. The species mentioned above are described or redescribed, all important diagnostic characters are figured and some comments on the generic classification are quoted. A review of 59 species of Psychodidae (subfamilies Sycoracinae and Psychodinae) from Slovenia is given, 57 of them being new to the fauna of this territory. Notes on the distribution of the included species are added.

■ Taxonomy, faunistics, Psychodidae, *Limomormia*, *Ulomyia*, *Berdeniella*, new species, synonymy, re-description, Slovenia, Slovakia, Czechia.

INTRODUCTION

Nothing has been published on the family Psychodidae (Diptera) from Slovenia so far and the composition of Slovenian fauna of insects has not been generally characterized. In contrast to Vaillant's (1967) rather conservative European zoogeographical scheme applied to the moth flies, Malicky (2000) defined a new type of biome on the basis of unusual dynamics of dispersal of aquatic insects (mainly Trichoptera); the territory of Slovenia was characterized by him as one of two important stenendemic Dinodal centres in opposite to the southeastern Austria. My field work in Slovenia (1.–30. 9. 1999, 14. 6.–13. 7. 2000, 1.–12. 10. 2001), supported and granted by the programme Contact of the Ministry of education of the Czech Republic, was realized mainly in the Triglav National Park (Julian Alps Mts.); Regional parks as Karavanke- Kamniške- Savinian Mts., Pohorje Mts., Kozjansko, Trnovski gozd, Snežnik Mt. and Kočevje-Kolpa; Landscape Parks as Mura river, Goričko Mts., Ljubljansko barje, Sečoveljske soline, Dragonja, Zgornja Idrijca and Kolpa valley. Almost 12 000 specimens of moth flies were collected by sweeping, one third of this material identified, 345 voucher specimens selected (one specimen of each species from each locality and date), slid by using Canadian balsam and deposited in the Department of Entomology of the National Museum, Prague. The author determined 59 Slovenian species and selected a rich material from tens of Slovenian localities in addition, deposited in the spirituous collection of aquatic Diptera in the Natural History Museum, Ljubljana. This material was collected by Dr. I. Sivec and Dr. B. Horvat in the former Yugoslavia and the adjacent areas many years ago. Two new species *Ulomyia vaseki* (Slovenia, Czechia and Slovakia) and *Berdeniella julianensis* (Slovenia) are described in this paper and the name *Mormia (Limomormia)*

alpina WAGNER et SALAMANNA, 1983 was recognized as an objective synonym of *Limomormia apicealba* (TONNOIR, 1922) – the species is redescribed here. 41 line drawings illustrate the text. All Slovenian localities are quoted on the basis of the Atlas Slovenije (Kos, 1996). The preliminary results of my research in Slovenia indicate that moth flies of this territory represent montane (including probably some endemites), sub-mediterranean, transcaucasian and circumsubtropical (circumtropical) elements, with a combination of the European, European – Westsiberian, Eurasian, Palaeartic, Holarctic and cosmopolitan species.

Explanatory notes:

NMP – National Museum, Prague; Cat. No., INS – inventory number of slide (all material is deposited in NMP); CGM – code of grid mapping according to Zelený (1972), used only in Bohemian, Moravian (inc. Silesian) and Slovakian localities; MT – Malaise trap; LT – light trap; YPT – yellow pan traps; SM – spirituous material; CM – Chvojka and Macek leg.; G – Gogala leg.; HVJ – Hájek, Vašek and Ježek leg.; HV – Hájek and Vašek leg., I – Ištváněh leg., J – Ježek leg., L – Lauterer leg.; COS – Cosmopolitan; EUA – Eurasian; EUR – European; EUWS – Eurowestsiberian; HOL – Holarctic; PAL – Palaeartic; SUBM – Submediterranean; SUBTROP – Subtropical ad Tropical; TRANS – Transcaucasus; Veg. – vegetation of mentioned localities (mainly dominant taxa of undergrowths 1–70, dominant genera of trees 71–99). 1 – *Aconitum*, 2 – *Adenostyles*, 3 – *Aegopodium*, 4 – Algae, 5 – *Allium*, 6 – *Artemisia*, 7 – *Arum*, 8 – *Aruncus*, 9 – *Arundo*, 10 – *Asarum*, 11 – *Asplenium*, 12 – *Blechnum*, 13 – *Caltha*, 14 – *Carduus*, 15 – *Carex*, 16 – *Carlina*, 17 – *Cerastium*, 18 – *Colchicum*, 19 – *Convolvulus*, 20 – *Cyclamen*, 21 – *Daucaceae*, 22 – *Deschampsia*, 23 – *Digitalis*, 24 – *Doronicum*, 25 – *Equisetum*, 26 – *Eupatorium*, 27 – *Filipendula*, 28 – *Fragaria*, 29 – *Galium*, 30 – *Geranium*, 31 – *Hedera*, 32 – *Heleborus*, 33 – *Hepatica*, 34 – *Hypericum*, 35 – *Impatiens*, 36 – *Juncus*, 37 – *Lamiaceae*, 38 – *Lappa*, 39 – *Maianthemum*, 40 – *Marchantiopsida*, 41 – *Mentha*, 42 – *Musci*, 43 – *Myosotis*, 44 – *Nasturtium*, 45 – *Oxalis*, 46 – *Paris*, 47 – *Petasites*, 48 – *Phragmites*, 49 – *Phyllitis*, 50 – *Pinguicula*, 51 – *Poaceae*, 52 – *Polygonum*, 53 – *Pteris*, 54 – *Pteropsida*, 55 – *Ranunculus*, 56 – *Rubus*, 57 – *Rumex*, 58 – *Saponaria*, 59 – *Saxifraga*, 60 – *Scirpus*, 61 – *Senecio*, 62 – *Smilacina*, 63 – *Solidago*, 64 – *Sphagnum*, 65 – *Telekia*, 66 – *Trollius*, 67 – *Urtica*, 68 – *Vaccinium*, 69 – *Valeriana*, 70 – *Veratrum*; 71 – *Abies*, 72 – *Acer*, 73 – *Alnus*, 74 – *Betula*, 75 – *Carpinus*, 76 – *Castanea*, 77 – *Cornus*, 78 – *Corylus*, 79 – *Crataegus*, 80 – *Cupressus*, 81 – *Fagus*, 82 – *Frangula*, 83 – *Fraxinus*, 84 – *Juglans*, 85 – *Juniperus*, 86 – *Larix*, 87 – *Picea*, 88 – *Pinus*, 89 – *Platanus*, 90 – *Populus*, 91 – *Prunus*, 92 – *Quercus*, 93 – *Rhododendron*, 94 – *Robinia*, 95 – *Salix*, 96 – *Sambucus*, 97 – *Sorbus*, 98 – *Tilia*, 99 – *Ulmus*.

SYSTEMATIC PART

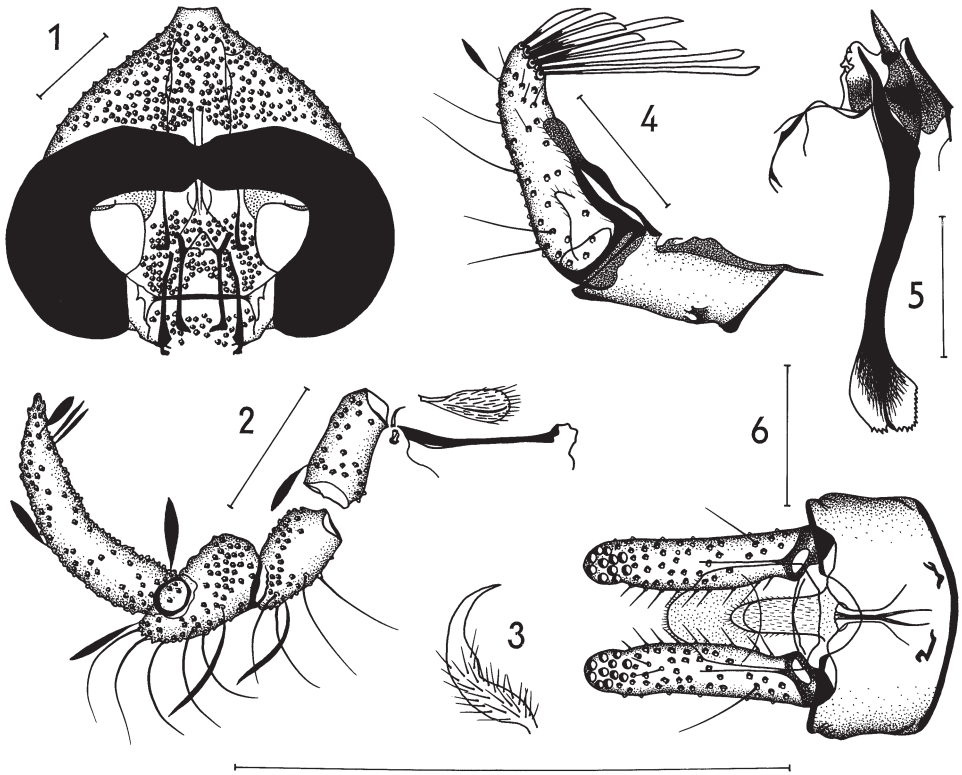
Limomormia apicealba (TONNOIR, 1922)

(Figs 1–13)

Telmatoscopus apicealbus TONNOIR, 1922 – Annl. Soc. ent. Belg., 62: 179.

Telmatoscopus (Peripsychoda) fittkaui VAILLANT, 1958 – Bull. Soc. ent. Fr., 63: 46.

Mormia (Limomormia) alpina WAGNER et SALAMANNA, 1983 – Boll. Soc. ent. Ital., Genova, 115 (8-10): 168. **Syn. n.**



Figs 1–6. *Limomormia apicealba* (TONN.), male. 1 – head; 2 – maxilla and palpus maxillaris; 3 – claw of P₁; 4 – lateral view of epandrium and surstylus; 5 – lateral view of aedeagal complex; 6 – dorsal view of epandrium and surstyli (retinaculi omitted). Scales 0.1 mm.

Differential diagnosis: Similar to *Limomormia sarai* (WAGNER et SALAMANNA, 1983) – male, which has the lateral protuberance of the pedicel short, circular organs of antennae very small, hypandrium without minute cavities inside, lateral sclerotized plates of aedeagal complex developed, spear-shaped. Sclerotized patches inside and paired lobuli outside missing. *Limomormia apicealba* (TONNOIR, 1922) has the lateral protuberance of the pedicel long, towering above the distal end of the first flagellomere, port holes conspicuous, large (Fig. 8), hypandrium with small cavities inside (Fig. 13), lateral plates of the male genitalia missing. Paired lateral patches inside and lobuli outside developed.

Male: Eyes contiguous (Fig. 1), touching each other for two diameters of one facet (Fig. 7). Antennae (Fig. 8) 16–segmented. Scape rather long, a little widened distad, the length 4.3 times greater than the width at basis. Pedicel almost ovoid, with a long and strong protuberance laterad, towering above the distal end of the first flagellomere. Flagellar segments generally flask-shaped, flagellomeres 2–6 with well developed circular organs. Sensory filaments comb-shaped, paired, conspicuous and well visible. Ratios of maximum lengths of segments of maxillary palps (Fig. 2) 1 : 1 : 1.2 : 2.5. Last segment of maxillary palpus not annulate, connected basally with the subapical part of the preceding segment. Palpomere 3 being wider than longer, a little compressed, short and

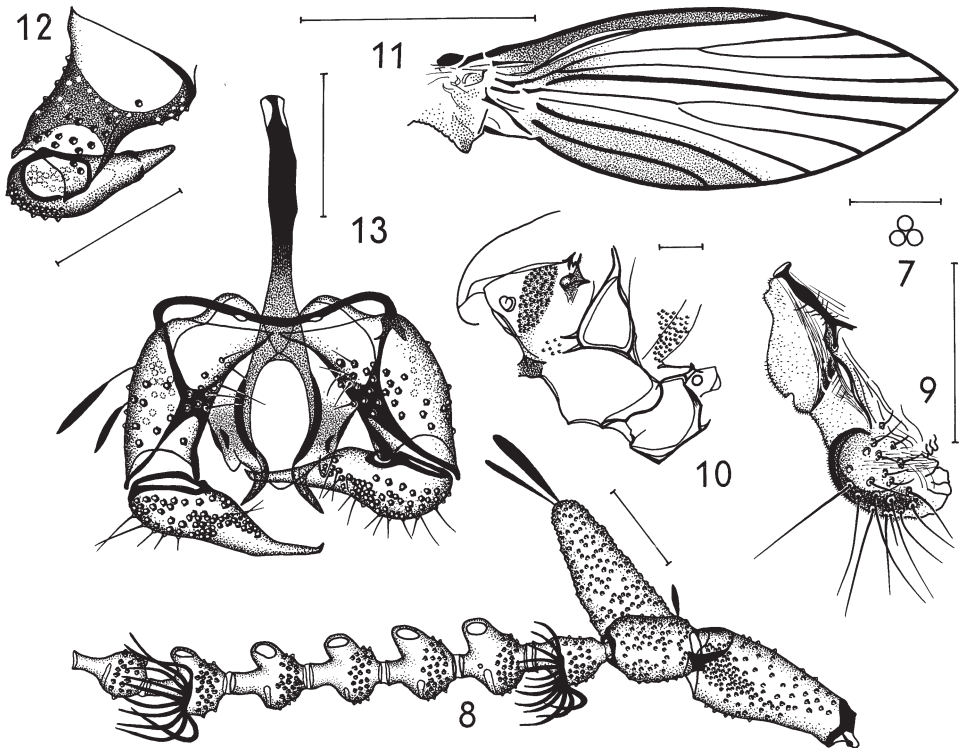
bulbose. Terminal lobe of labium on Fig. 9. Ratio of maximum length of cibarium to length of epipharynx 2.3 : 1. Thoracic sclerites as in Fig. 10. Wings (Fig. 11) narrowly lancet-shaped, 2.3 mm long, clouded behind costal margin, between Sc and R₁; small areas near bases of all R-veins are as well darkened. M₄ and Cu are placed in a dark longitudinal patch in the hind margin of the wing. Strengthened veins: Sc, R₁, R₅, M₄ and Cu. R₂, R₃, R₄, M₁, M₂ and M₃ are strengthened in their distal parts (border of the wing). Basal costal nodes distinct. M₃ and Cu are not connected on M₄ at the wing basis. R₅ extends distally to reach wing margin behind the apex of the wing. Medial wing angle 139° (BCD). Indices of wing AB : AC : AD = 4.2 : 4.5 : 4.2; BC : CD : BD = 1 : 1.4 : 2.3 (A = end of R₅, B = radial fork, C = medial fork, D = end of Cu). Index of the wing length (measured from the line connecting basis of the larger basal costal node and the start of neala) to maximum width of wing 2.8. Ratio of maximum length of halteres to their maximum width 2.8 : 1. Ratios of lengths of femora, tibiae and first tarsal segments: P₁ = 2.0 : 2.1 : 1.0; P₂ = 2.1 : 2.6 : 1.3; P₃ = 2.3 : 3.0 : 1.3. One of the tarsal claws of P₁ as in Fig. 3. Basal apodeme (Figs 5, 13) of male genitalia narrow, strongly sclerotized, rather straight from dorsal aspect, inconspicuously S-shaped from lateral view. Distal part of basal apodeme forked in two caudal arms, the tops of which are modified in siccle-shaped protuberances, arched approximately in the right angle, with pointed tips bent outward. Aedeagal complex generally short and rounded from dorsal view; paired small lobuli outside with conspicuously sclerotized patches basally are developed. Gonocoxites and gonostyli approximately of the same length (dorsal view). Gonocoxites (Figs 12, 13) a little arched from dorsal view. Gonostyli thick basally, conspicuously tapering to the long thin pointed tips. Epandrium bare (Figs 4, 6), with a large notch caudally. Basal paired apertures visible, conspicuously sclerotized on the margins. Reminders of 10th tergite and sternite inside of epandrium reduced. Surstyli are longer than epandrium. Hypandrium narrow, with two very small cavities near medial longitudinal axis. Epiproct long, narrow, haired. Hypoproct generally large, broad, tongue-shaped, conspicuously narrowed in caudal quarter, rounded apically, with many minute hairs. Surstyli rather long, almost straight (dorsal view), inconspicuously C-shaped (lateral view), subapically with 11-12 retinaculi, gradually shortened to the top of surstylus. Cluster of insertions of retinaculi circular.

Female: Described by Tonnoir (1922), not represented in material examined.

Variability: It seems, in comparison with the comparative material mentioned below, that the size of scape, the inner prolongation of pedicel and the shape of the pointed protuberances of aedeagal complex are a little aberrant.

Material examined: 1 male, Slovenia, Sečovelje, Sečoveljske soline, the sea shore and swamps exploited by the Salt Industry Museum, 0 m a. s. l., 24.9.1999, J. A covered walk by big rushes. Veg.: 9, 56; 82. Deposited in NMP, dissected, slide Cat. No. 33869, Inv. No. 10452 (Canadian Balsam).

Distribution: Belgium, France, Hungary, Italy. New to the fauna of Slovenia. EUR Comparative slide material: Holotype (male) of *Mormia (Limomormia) sarai* WAGNER et SALAMANNA, 1983; Italy, Sicily, 7 km NW Francavilla 480 m NN, 15°06' / 37°56' Bach, Malicky leg. (Wagner's collection, Schlitz). Holotype (male) of *Mormia (Limomormia) alpina* WAGNER et SALAMANNA, 1983; France, Peira Cava 4800 ft: Alp-Mar. S. France, 22.8.1911, Wlsm (Walsingham Collection, The Natural History Museum, London). Holotype (male) of *Telmatoscopus apicealbus* TONNOIR, 1922, revised by Salamanna; Italy, Macerata, 20. 3. 1897 (coll. Bezzi, Museo Civico di Storia Naturale, Milano).



Figs 7–13. *Limomormia apicealba* (TONN.), male. 7 – facets; 8 – basal antennal segments; 9 – terminal lobe of labium; 10 – lateral view of thoracic sclerites; 11 – wing; 12 – lateral view of gonocoxite and gonostyle; 13 – dorsal view of aedeagal complex and gonopods. Scales 0.1 mm, in Fig. 11 1 mm.

Taxonomical discussion: Salamanna (1983) revised the holotype of *Telmatoscopus apicealbus* TONNOIR, 1922 (coll. Bezzi). He overlooked the long gonocoxites (in contrast to Tonnoir, 1922 – Fig. 11 E of the original paper) pressed on the slide and the most important character: the sclerotized patches in aedeagal complex. However, he correctly figured the small additional aedeagal lobuli (Fig. 2 F of the original paper). Meanwhile, Wagner et Salamanna (1983) ignored not only the sclerotized patches of the aedeagal complex in *Mormia* (*Limomormia*) *alpina* WAGNER et SALAMANNA, 1983, but also the small lobuli on both sides of the complex (a contradiction with the type material).

Comments on the generic classification: The taxonomic position of the genus *Limomormia* VAILLANT, 1982 (type-species: *Telmatoscopus apicealbus* TONNOIR, 1922 – by orig. des.), currently with only two species in the world, was discussed by Ježek (1984a, 1994). A key to the known genera of the tribe Mormiini Enderlein including *Limomormia* VAILL. was published by Ježek (1990), in the sense of the subtribe Mormiina – see Ježek (1994) and Ježek & Goutner (1995). Wagner (1990) included in the subgenus *Limomormia* VAILLANT, 1982 of the genus *Mormia* ENDERLEIN, 1935 (type species *Pericoma revisenda* EATON, 1893 – by orig. des.) 10 species from which some were transferred in the genera *Taramormia* JEŽEK, 1984, *Jovamormia* JEŽEK, 1983 and *Yomormia* JEŽEK, 1984 in the meantime.

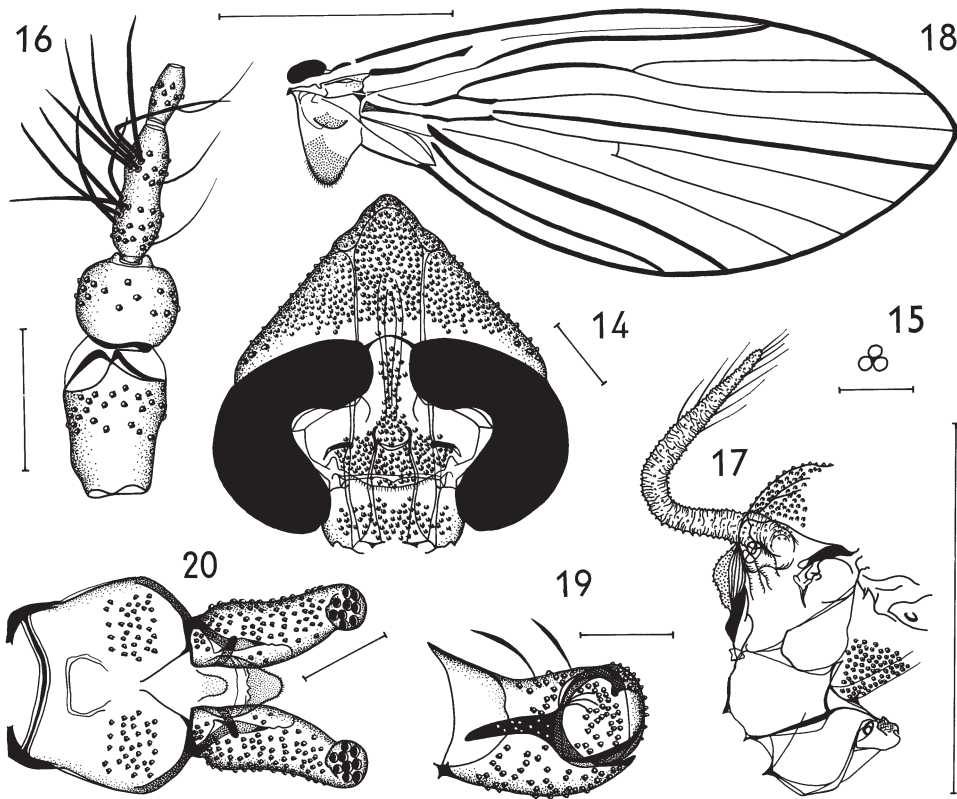
Ulomyia vaseki sp. n.

(Figs 14–27)

Differential diagnosis: Similar to *Ulomyia szabo* *szabo* VAILLANT, 1981 (repeatedly described by Vaillant, 1983) which has tegulae short, strong, with two arms of the same length; two caudal arms of basal apodeme of aedeagal complex without loops distad in dorsal view; gonostyli not conspicuously bent backwards. *U. vaseki* sp. n. has telescopic tegulae long, one-armed (Fig. 17); caudal lamellae of basal apodeme characteristically looped (Fig. 26); gonostyli conspicuously bent backwards.

Male: Eyes separated, the lower part of frons with irregularly arranged dorsoventral stripe of hairs, narrowed between antennae (Fig. 14). The minimum distance between eyes corresponds to three facet diameters (Fig. 15), closely below frontal suture is frons a little broader. Index of distance of the apices of eyes to minimum width of frons mostly 3.5, to facet diameter 9.8. Two basal flagellar segments are fused (Fig. 16), therefore, antennae are 15-segmented. Scape short, somewhat widened distad. Pedicel almost globular. Flagellomeres cask-shaped, the first long flagellar segment with two tufts of big spines. Apical antennal segment (Fig. 21) with a very long finger-like protuberance as long as the basal strengthened part of the segment. Sensory filaments simple, paired, as a structural unit, needle-shaped. Ratios of lengths of segments of maxillary palps (Fig. 23) 1 : 1.9 : 1.8 : 2.4. Last segment of maxillary palpus annulate, connected basally with the apical end of the foregoing segment. Terminal lobe of labium on Fig. 22. Ratio of maximum length of cibarium to length of epipharynx 1.4 : 1. Thoracic sclerites on Fig. 17, both posterior mesothoracal allurement organs (tegulae) between spiracle and base of wing long, telescopic, one-armed, pointed; both adjacent pheromone-secreting anterior allurement organs very short, pestle-shaped, with elongated patch of dark glandular cells on the top. Wings (Fig. 18) widely lancet-shaped, 3.0 (holotype) – 2.6–3.1 (paratypes) mm long, clear. Completely strengthened veins: Sc, R₂₊₃, R₅, M₄, Cu. In addition: long distal part of R₁ as well as short basal part of R₄ and M₁₊₂. Basal costal nodes well visible, Sc uninterrupted. M₃, M₄ and Cu not touched in the basis of wing. R₅ extends behind the apex of the wing, R₄ ended in the apex. Medial fork incomplete, cross-vein m-m short, inconspicuous. Index of the wing length (measured from the line connecting the basis of the basal larger costal node and the start of neala) to maximum width of wing 2.5. Ratio of maximum length of halteres to their maximum width 2.6 : 1. Ratios of lengths of femora, tibiae and first tarsal segments: P₁ = 1.4 : 1.6 : 1.0; P₂ = 1.5 : 2.0 : 1.0; P₃ = 1.6 : 2.1 : 1.0. One of the paired tarsal claws of P₁ as in Fig. 24. Aedeagal complex on Figs 26 and 27, phallobasis darkened basally. Basal apodeme of male genitalia short and narrow, straight, with a pointed proximal top. Distal part of apodeme forked in two arms, looped caudally (dorsal view). Gonocoxites (Figs 19, 26) not too long, a little arched. Gonostyli conspicuously sclerotized terminally, with very long thin pointed tips, bent backwards, ornamented by many small circular colourless patches. Epandrium (Figs 20, 25) haired, partially divided in the middle, with a large notch caudally. Basal paired apertures visible in some paratypes, in the holotype only central aperture developed. Sclerotized remainders of 10th tergite and sternite inside of epandrium missing. Hypandrium narrow, bare. Epiproct small, tongue-like, hairs more widely spaced in contrast to hypoproct, which is rounded terminally, larger, with diverging and after converging margins basally. Surstyli inconspicuously S-shaped from ventral view, C-shaped from lateral one, as long as epandrium, subapically with 6–9 retinaculi of different lengths (gradually shortened to the top of surstylus).

Female: unknown.



Figs 14–20. *Ulomyia vaseki* sp. n., male. 14 – head; 15 – facets; 16 – basal antennal segments; 17 – lateral view of thoracic sclerites; 18 – wing; 19 – lateral view of gonocoxite and gonostyle; 20 – dorsal view of epandrium and surstyli (retinaculi omitted). Scales 0.1 mm, in Figs 17 and 18 1 mm.

Note: I used the selected morphological terminology sensu Feuerborn (1922): tegula is a protuberance of mesothorax and patagium is placed on the prothorax (contrary to Vaillant, 1983).

Type material: Holotype, male, **Czechia**, Bohemia or., Protected landscape area Orlické hory Mts., Bukáčka National Natural Reserve env. Šerlich 1025 m a. s. l., Down meadow, CGM 5664, 28. 6.–18. 7. 1994, MT, HVJ. Deposited in the Department of Entomology of the National Museum Prague (NMP), dissected, slide Cat. No. 33871, Inv. No. 10422 (Canadian Balsam). Paratypes: 32 males. 3 M, ditto as holotype, Cat. No. 33872–33874, Inv. No. 10423–10425; 2 M, ditto, 28. 6.–18. 7. and 18. 7.–5. 8. 1994, YPT, HVJ, Cat. No. 33875–33876, Inv. No. 10426–10427; M, ditto, 18. 7.–5. 8. 1994, MT, HV, Cat. No. 33877, Inv. No. 10428; M, ditto, Kamenec nr. Zdobnice env. Strážný Mt. 863 m, forest, brook, swamps, CGM 5764, 11.8.1996, J, Cat. No. 33878, Inv. No. 10429; M, ditto, 2 km NE of Kunštátská kaple chapel env. Orlické Záhoří, forest, spring area, reserved area no. 15, CGM 5764, 27.7.1993, J, Cat. No. 33879, Inv. No. 10430; M, ditto, 500 m NE of Sedloňovský vrch hill 1050 m a. s. l. env. Sedloňov, forest, brook, reserved area no. 5, CGM 5664, 14.8.1993, J, Cat. No. 33880, Inv. No. 10431; M, ditto, 1 km S of Strážný Mt. 863 m a. s. l. env. Zdobnice, forest, spring area, reserved area no. 27, CGM 5764, 9.8.1993, J, Cat. No. 33881, Inv. No. 10432; M, ditto, Šerlišký mlýn mill env.

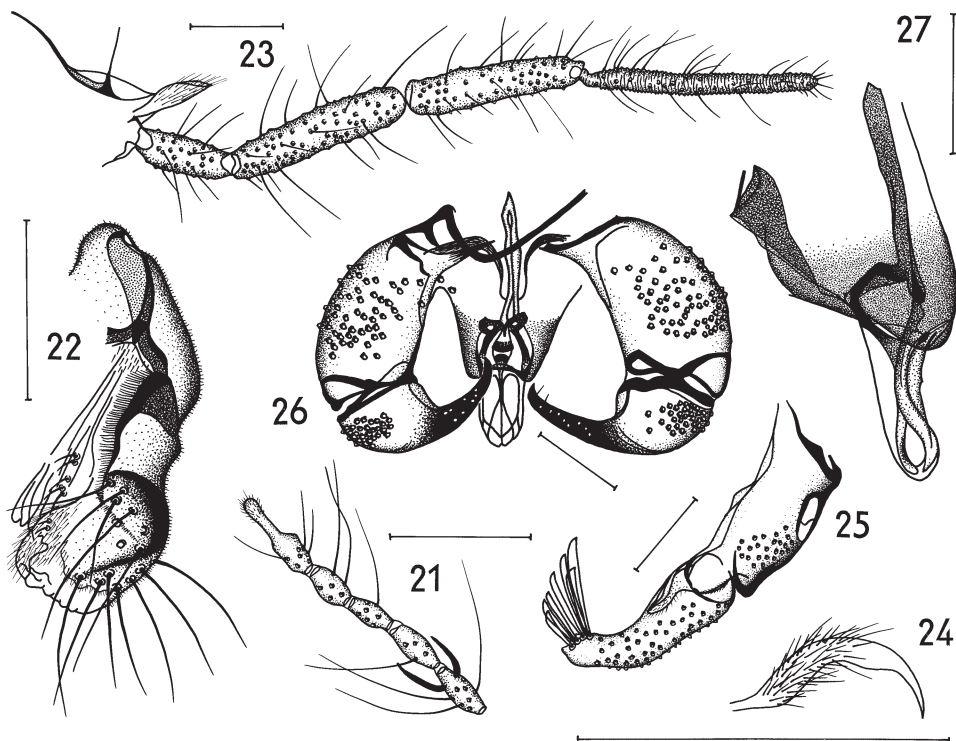
Deštné v Orlických horách, forest, brook, swamping banks, reserved area no. 52, CGM 5664, 14. 8. 1993, J, Cat. No. 33882, Inv. No. 10433; M, Protected landscape area Jizerské hory Mts., Jizerka – settlement, 860-910 m a.s.l., near road, CGM 5158, 13.7.2001, L, Cat. No. 33913, Inv.No. 10694; M, Českomoravské mezíhoří (intermountain area), Uhlířský důl valley nr. Bouda strong-hold env. Těchonín, forest, small brooks and swamps, mass movement of stones, CGM 5966, 23. 7. 1996, J, Cat. No. 33883, Inv. No. 10434; M, Natural Park Jeřáb Mt., Sv. Trojice (862.4 m a. s. l.) nr. Vysoký Potok, fountain “Na hranici”, 949.6 m a. s. l., forest, CGM 5966, 14. 8. 2001, J, Cat. No. 33884, Inv. No. 10380; M, Králický Sněžník Mts., “U strašidel” (chalet), spring area NW, CGM 5866, 23.8.2001, MT, CM, Cat. No. 33885, Inv. No. 10323; M, ditto, Moravia sept., Sklepné (elevation 1096 m a. s. l.) env. Hanušovice, forest brook, CGM 5867, 23.7.2001, J, Cat. No. 33886, Inv. No. 10379; M, ditto, Návrší chalet nr. Stříbrnice env. Staré Město pod Sněžníkem, stream, forest, CGM 5767, 15. 7. 1996, J, Cat. No. 33887, Inv. No. 10421; M, Velké Vrbno env. Ostružná, stream, meadows, CGM 5767, 27. 7. 1996, J, Cat. No. 33888, Inv. No. 10435; M, Rychlebské hory Mts., Brousek Mt. 1114 m a. s. l. env. Ramzová, Černý potok brook (spring), CGM 5768, 27. 7. 1996, J, Cat. No. 33889, Inv. No. 10436; M, 1 km S of Smrk Mt. 1125 m a. s. l. env. Ostružná, Černý potok brook, CGM 5768, 27. 7. 1996, J, Cat. No. 33890, Inv. No. 10437; M, Travná hora Mt. 1120 m a. s. l. nr. Velké Vrbno env. Ostružná, forest, brook, CGM 5768, 27.7.1996, J, Cat. No. 33891, Inv. No. 10438; M, Protected landscape area Jeseníky Mts., Bleskovec Mt. 871 m a. s. l. env. Rejvíz, forest, small brook, CGM 5769, 25. 7. 1994, J, Cat. No. 33892, Inv. No. 10439; M, ditto Ramzová – vicinity of a railway station, forest, small brook, swamps, CGM 5768, 27. 7. 1994, J, Cat. No. 3893, Inv. No. 10440; M, ditto, Zlatý Chlum Mt. 875.3 m a. s. l. env. Jeseník, forest glade, gutter, CGM 5769, 25. 7. 1994, J, Cat. No. 33894, Inv. No. 10441; M, ditto, between Přemyslov and Jelení skok Mt. 851.9 m a. s. l., forest, slope spring area, gutter, CGM 5868, 25.7.1995, J, Cat. No. 33895, Inv. No. 10442; 2 M, ditto, Velký Kotel basin nr. Vysoká hole Mt. 1464 m a. s. l., Moravice stream, avalanche cirque, CGM 5969, 14.–26. 6. and 26. 7.–5. 8. 1994, MT, I, Cat. No. 33896–3897, Inv. No. 10443–10444; M, **Slovakia**, Slovenské rudohorie Mts., Stará Voda env. Spišská Nová Ves, Drahov Mt. 1135 m a. s. l., forest, spring area, CGM 7290, 15.7.1989, J, Cat. No. 33898, Inv. No. 10445; M, **Slovenia**, Julijske Alpe Mts., Triglav National Park, Mangart Mt. 2678 m a. s. l., pass 1800–1900 m a. s. l., wet rocks (hypopetric zone), 29. 6. 2000, J, Cat. No. 33899, Inv. No. 10446; M, ditto, Velo polje basin nr. Triglav 2864 m a. s. l., fountain, 4.7.2000, J, Cat. No. 33900, Inv. No. 10447; M, ditto, Vodnikov dom chalet 1817 m a. s. l. env. Tosc Mt. 2275 m a. s. l., spring area, 4. 7. 2000, J, Cat. No. 33901, Inv. No. 10448; M, ditto, Zadnja Trenta, Suhi potok brook, rocky walls and platforms with seepage places, waterfalls, 27. 6. 2000, J, Cat. No. 33902, Inv. No. 10449; M, Karavanke Alpe Mts., Zgornje Jezersko, Mlinar, forest, spring area, 28. 6. 2000, J, Cat. No. 33903, Inv. No. 10450. All deposited in NMP.

Veg.: 2, 5, 11–13, 17, 21–25, 27, 29, 30, 34–36, 39–45, 47, 51, 54–57, 59–62, 64, 67–70; 72–74, 78, 81, 83, 85–89, 93, 95–97.

Derivatio nominis: The new species is dedicated to Mr. Miloš Vašek (Management of the Protected Landscape Area Orlické hory Mts., Rychnov nad Kněžnou, CZ), who willingly undertook the periodical sampling of insects from traps in the past.

Distribution: Czechia, Slovakia, Slovenia. EUR

Comments on the generic classification: *Ulomyia* WALKER, 1856 has a complicated history. Curtis (1839) quoted *Saccolpteryx* attributed to HALIDAY [without explicitly demonstrating or verbatim citation that Haliday himself was responsible both



Figs 21–27. *Ulomyia vaseki* sp. n., male. 21 – apical antennal segments; 22 – terminal lobe of labium; 23 – maxilla and palpus maxillaris; 24 – claw of P₁; 25 – lateral view of epandrium and surstylus, 26 – dorsal view of aedeagal complex and gonopods; 27 – lateral view of aedeagal complex. Scales 0.1 mm.

for the name and for the description which made it available] with only one species *Trichoptera fuliginosa* MEIGEN, 1804 (*Psychoda fuliginosa* in Meigen, 1818: vol 1, p. 107, sp. 8) which is the type species of *Sacchopteryx* CURTIS by monotypy (overlooked by Wagner, 1990). Unfortunately, *Sacchopteryx* CURTIS, 1839 is preoccupied in Mammalia. Walker (1856) first used a replacement name *Ulomyia* HALIDAY [Walker must be the author in spite of his expression “I am indebted to Mr. Haliday for all the following characters of the genera and species of this family.” – ICZN, 1999: 50.1. – a discrepancy with Fairchild, 1951] with one illustrated species, misidentified as *Tipula hirta* LINNÉ, 1761 = *Panimerus notabilis* (EATON, 1893) [see Fairchild, 1951]; therefore, *Trichoptera fuliginosa* MEIGEN, 1804, quoted by Walker (1856) as a synonym of *hirta* represents the type species of *Ulomyia* by monotypy. The present concept of *U. fuliginosa* (MEIGEN, 1804) is not in a discrepancy with the Walker’s detailed figures of wings (male and female dimorphism) and with only the habitual coloured Meigen’s illustration published by Morge (1975 – I, p. 432, explanatory notes; 1976 – III, Tab. CLXXXVI, Fig. 7b). Full synonymy and literary data were given by Schiner (1864) and Kertész (1903). There is some confusion with the name *Tinearia* SCHELLENBERG, 1803. This name was wrongly listed by both Enderlein (1936) and Rapp (1946) as valid, with *Trichoptera fuliginosa* MEIGEN, 1804 as type species, and *Ulomyia* HALIDAY in CURTIS, 1839 (not Walker, 1856!) as a synonym of *Tinearia*. This problem was discussed by Fairchild (1951) and Ježek (1977). The following genus-group names are currently recognized as

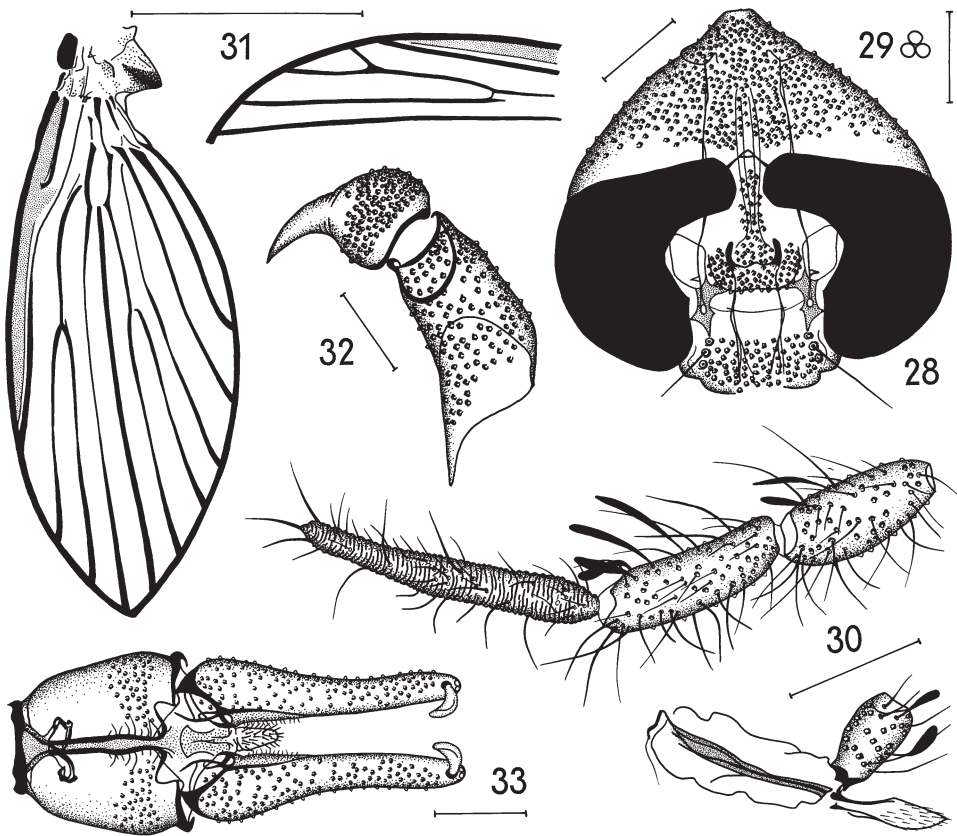
synonyms of *Ulomyia* WALKER, 1856: *Colpopteryx* ENDERLEIN, 1936 (type species *Pericoma undulata* TONNOIR, 1919) and *Marsypia* ENDERLEIN, 1936 (type species *Pericoma plumata* TONNOIR, 1919). The genus-group name *Pericomina* ENDERLEIN, 1936 (type species *Pericoma opaca* TONNOIR, 1922 – by orig. des.), quoted incorrectly by Wagner (1990) as a synonym of *Ulomyia* WALKER, 1856, was previously excluded from that synonymy by Duckhouse (1990) [the Wagner's manuscript, published as late as 1990, was accomplished in 1982]. *Pericomina* is a synonym of *Pneumia* ENDERLEIN, 1935 (type species *Trichoptera palustris* MEIGEN, 1804 – by orig. des.). Duckhouse (1990) recognized and used *Ulomyia* WALKER, 1856 as a subgenus of *Pericoma* WALKER, 1856 (type species *Psychoda trifasciata* MEIGEN, 1804 – subseq. des. by Coquillett, 1910). Wagner (1990) listed 14 species of *Ulomyia* WALKER, 1856 from the Palaearctic region, Vaillant (1981, 1983) 17 species and 1 subspecies. By now, 20 species (incl. *U. vaseki* sp. n. and one described in the past on the basis of larva) + 2 subspecies are known in the world (Palaearctic region only).

***Berdeniella julianensis* sp. n.**

(Figs 28–41)

Differential diagnosis: Similar to *Berdeniella calabricana* WAGNER, 1994, which has aedeagal complex generally narrow, with a pair of almost straight, long and pointed external protuberances (dorsal aspect). Basal aedeagal shield with a large and deep notch caudally. Male copulatory organ of *B. julianensis* sp. n. is broad (Fig. 40), paired external protuberances are very short (dorsal view), rounded and bent in the right angle. The shield of aedeagal complex is otherwise formed.

Male: Eyes separated, the lower part of frons with a dorso-ventral stripe of hairs (Fig. 28). The minimum distance between eyes equals to the double of the facet diameter (Fig. 29), closely below frontal suture is hardly equivalent to their threefold. Index of distance of the apices of the ends of eyes to minimum width of frons 5.3, to facet diameter 10.5. Antennae 16-segmented (Figs 34, 35). Scape short, almost cylindrical, a little widened distad. Pedicel ovoid, somewhat broader than scape. Flagellar segments mainly cask-shaped. Ascoids short, thin, simple, paired, as a structural unit, needle-shaped, with bent base. Ratios of lengths of segments of maxillary palps (Fig. 30) 1 : 1.6 : 1.9 : 2.9. Last segment of maxillary palpus annulate, connected basally with apical end of the foregoing segment. Terminal lobe of labium on Fig. 36. Ratio of maximum length of cibarium to length of epipharynx 1.6 : 1. Thoracic sclerites as in Fig. 37. Wings (Fig. 31 – the second wing with an abnormality) lancet-shaped, 2.5 mm long, clear, a little clouded only behind the costal margin (between basis of Sc and the end of R₁). Strengthened veins: Sc; R₁ and M₃ distad; R₂₊₃ and M₁₊₂; R₂, R₃, R₄, M₁ and M₂ (weakened in the middle); R₅, M₄ and Cu. Basal costal nodes distinct, Sc uninterrupted. M₃, Cu and M₄ without a touch basally. R₅ extends distally to reach the wing margin below apex. Medial wing angle 161° (BCD). Indices of wing AB : AC : AD = 4.1 : 4.0 : 3.9; BC : CD : BD = 1.0 : 1.5 : 2.4 (A = end of R₅, B = radial fork, C = medial fork, D = end of Cu). Index of the wing length (measured from the line connecting basis of the larger basal costal node and the start of neala) to the maximum width of wing 2.5. Ratio of maximum length of halteres to their maximum width 3.2 : 1. Ratios of lengths of femora, tibiae and first tarsal segments: P₁ = 1.8 : 2.0 : 1.0; P₂ = 1.8 : 2.3 : 1.1; P₃ = 2.0 : 2.7 : 1.2. One of the paired tarsal claws of P₁ as in Fig. 38. Basal apodeme of male genitalia (Figs 40, 41) short and narrow, stick-shaped from dorsal view, spatula-shaped in lateral aspect. Distal part of basal apodeme forked in two caudal lamellae first diverging then converging, evolving paired short pro-



Figs 28–33. *Berdeniella julianensis* sp. n., male. 28 – head; 29 – facets; 30 – maxilla and palpus maxillaris; 31 – wing (with an abnormality in addition); 32 – lateral view of gonocoxite and gonostyle; 33 – dorsal view of epandrium and surstyli. Scales 0.1 mm, in Fig 31 1 mm.

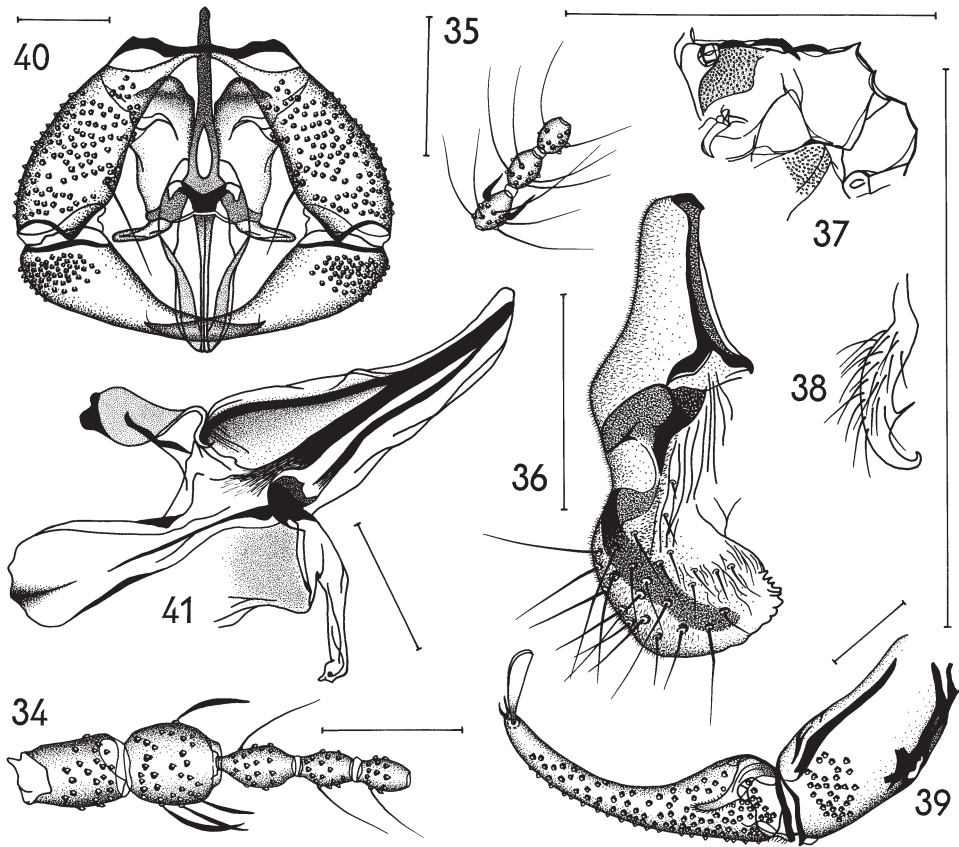
tubercles bent backwards in the right angle to the aedeagal sheath. Gonocoxites rather long, straight, only inconspicuously bent in lateral view, with 5 strong setae on the inner side in the apical third. Gonostyli (Figs 32, 40) swollen basally in dorsal aspect, bulbous in lateral one, with long thin pointed tips, apical half of gonostyli ornamented by small white circular patches. Epandrium (Figs 33, 39) haired, with basal paired apertures. Sclerotized remainders of 10th tergite and sternite inside of epandrium conspicuously developed, in the shape of two long parallel rods. Hypandrium narrow. Epiproct small, inconspicuous, hairs more densely spaced than in hypoproct, which is tongue-shaped. Surstyli long, longer than epandrium, C-shaped, subapically with one retinaculum and two small spines.

Female: unknown.

Type material: Holotype, male, Slovenia, Julijske Alpe Mts., between Koča na Planini pri Jezeru (chalet) and Stara Fužina, 900 m a. s. l., 7.7.2000, J. A wet rocky wall, waterfalls. Veg.: 42, 56; 87. Deposited in the Department of Entomology of the National Museum Prague (NMP), dissected, slide Cat. No. 33870, Inv. No. 10451 (Canadian Balsam).

Derivatio nominis: The name is derived from the alpine area Juliana, Slovenia.

Distribution: Slovenia. (EUR, alpine)



Figs 34–41. *Berdeniella julianensis* sp. n., male. 34 – basal antennal segments; 35 – flagellomeres 12 – 14; 36 – terminal lobe of labium; 37 – lateral view of thoracic sclerites; 38 – claw of P₁; 39 – lateral view of epandrium and surstylus; 40 – dorsal view of aedeagal complex and gonopods; 41 – lateral view of aedeagal complex. Scales 0.1 mm, in Fig. 37 1 mm.

Comments on the generic classification: Vaillant (1971) described the genus *Berdeniella* VAILLANT, 1971 [type species not established] and later *Berdeniella* VAILLANT, 1976 [type species *Pericoma helvetica* SARÀ, 1957 by orig. des.] (validity since 1976!). *Berdeniella* VAILLANT, 1971 represents an unavailable name apart from the key differential diagnosis (males – p. 38, larvae of instar 4 – p. 41), because the name proposed after 1930 (ICZN, 1999: 13.6.1) cannot be made available by the methods of “indication” listed in article 12.2.5 and 12.2.7: *B. manicata* (TONNOIR, 1919) is quoted by Vaillant (1971) - p. 53, explanation to Figs 136, 181, and additional available specific names on pp. 42, 43. It was ignored by Krek (1972) and Wagner (1975), who used unavailable name *Berdeniella* VAILLANT, 1971. In addition Vaillant (1975) quoted: “Ich habe als Typus der tribus Pericomini die Art *Berdeniella* [correctly *Pericoma* !] *helvetica* (SARÀ) gewählt.” Above mentioned facts (the problem of Lindner’s compendium) are in discrepancy with ICZN (1999) article 10.1.1 for editors and publishers: The publication of the data relating to a new nominal taxon must not be interrupted and continued at a later date. Vaillant (1976) registered 31 species of *Berdeniella* (Europe, northern

Africa); Wagner (1990) 42 species (Palearctic region), currently 61 (incl. *B. julianensis* sp. n. and 3 species described in the past on the basis of larvae only).

FAUNISTIC PART

SYCORACINAE

Sycorax CURTIS, 1839

Sycorax bicornua KREK, 1970 – 1 male; EUR

Zgornja Idrijca, between Čekovnik and Idrijska Bela, wet canyonsides, river, mountain road, M, 18. 6. 2000, J, INS 9808.

Veg.: 8, 25; 75, 81.

Sycorax tonnoiri JUNG, 1954 –13 males; EUR

Bohor nr. Veliki Koprivnik 982 m a. s. l., Zagorski potok brook, forest spring area, M, 2. 7. 2000, J, INS 9818; Gradišče v Tuhinju nr. Kamnik, slope forest spring area, crustated swamps, limestone, M, 16.9.1999, J, INS 9407; Julijske Alpe Mts., Triglav National Park, Koča bohinjskih prvoborcev na Vojah (chalet) env. Stara Fužina, Mostnica brook, M, 7. 7. 2000, J, INS 9771; Kozle, Bistri Graben, Tovornik, Bistri graben brook, forest, spring area, slate laying limestone strata, M, 2. 7. 2000, J, INS 9813; Ljubljana, Central Park (east part), forest, spring area, M, 2. 9. 1999, J, INS 9318; Luša nr. Škofja Loka, Luša brook, 400 m a. s. l., meadows, forest, mass movement of wet stones, M, 9. 1999, J, INS 9288; Motnik env. Vransko, Motnišnica river, meanders, pastureland, M, 7. 9. 1999, J, INS 8377; Plešče, Čabranka river, wet rocky wall, M, 10.9.1999, J, INS 8382; Podnart, Gobovce, 400 m a. s. l., forest, crustated spring areea, small pond, road, M, 9.9.1999, J, INS 8389; Smoleva nr. Železniki, Prednja Smoleva brook, 580 m a. s. l., forest, slope seepage tongue, M, 8. 9. 1999, J, INS 9289; Soteska nr. Kamnik, forest, spring area, rills, small brooks, M, 11. 9. 1999, J, INS 9300; Špitalič env. Motnik, forest, slope, swamp, M, 7. 9. 1999, J, INS 8419; Vir nr. Kamnik, forest margin, slope spring area, M, 11. 9. 1999, J, INS 9329.

Veg.: 3, 6, 7, 10, 13, 14, 20, 21, 25, 28, 30, 32, 33, 40, 42, 44, 47, 53, 54, 56, 67; 71–73, 75, 77, 78, 81, 83, 87, 92, 95, 96.

PSYCHODINAE

MORMIINI

Mormiina

Oomormia JEŽEK, 1984

Oomormia andrenipes (STROBL, 1910) – 1 male; EUR

Julijske Alpe Mts., Triglav National Park, Koča na Planini pri Jezeru (chalet) env. Stara Fužina, 1453 m a. s. l., forest, pasturelands, lake, cattle shelters, M, 5. 7. 2000, J, INS 9828.

Veg.: 15, 42; 87.

Promormia JEŽEK, 1983

Promormia eatoni (TONNOIR, 1940) – 5 males; EUR

Bohor, Planina pri Sevnici, Stara Žaga, Sevnica brook, 580 m a. s. l., spring area, M, 2. 7. 2000, J, INS 9794; Črnuče nr. Ljubljana, Sračja dolina valley (S of Rašica), forest margin, spring area, M, 22. 6. 2000, J, INS 9762; Julijske Alpe Mts., Triglav National Park, Strmec na Predelu 962 m env. Trenta, village, fountain, rubbish, M, 29. 6. 2000, J, INS 9800; Karavanke Alpe Mts., Spodnje Jezersko, Podlog, Reka brook, forest, rocks, ledges, M, 28. 6. 2000, J, INS 9814; Zgornja Idrijca, between Čekovnik and Idrijska Bela, wet canyonsides, river, mountain road, M, 18.6.2000, J, INS 9826.

Veg.: 2, 8, 13, 15, 25, 42, 47, 52–54, 56, 67; 73, 75, 76, 78, 81, 87, 88, 96, 99.

Promormia silesiensis JEŽEK, 1983 – 3 males; EUR

Julijske Alpe Mts., Triglav National Park, Strmec na Predelu 962 m env. Trenta, village, fountain, rubbish, M, 29. 6. 2000, J, INS 9799; Karavanke Alpe Mts., Spodnje Jezersko, Podlog, Reka brook, forest, rocks, ledges, M, 28. 6. 2000, J, INS 9815; ditto, Zgornje Jezersko, Mlinar, forest, spring area, M, 28. 6. 2000, J, INS 9783.

Veg.: 2, 13, 21, 42, 52, 67; 78, 81, 87, 88, 96.

Taramormia JEŽEK, 1984

Taramormia tatrica JEŽEK, 1984 – 1 male; EUR

Julijske Alpe Mts., Triglav National Park, between Koča na Planini pri Jezeru (chalet) and Stara Fužina, 1000 m a. s. l., wet rocky wall, M, 7. 7. 2000, J, INS 9786.

Veg.: 42, 54; 81, 87, 95.

Yomormia JEŽEK, 1984

Yomormia furva (TONNOIR, 1940) – 1 male; EUR, TRANS

Jastrobje nr. Špitalič, small forest brook, M, 7. 9. 1999, J, INS 9284.

Veg.: 25, 26, 37, 56, 67; 75, 77, 87, 92, 96.

PARAMORMIINI

Paramormiina

Clogmia ENDERLEIN, 1936

Clogmia albipunctata (WILLISTON, 1893) – 1 female, SUBTROP

Brje pri Komnu env. Gorjansko, F, 19. 9. 1999, G, INS 9385.

Veg.: Data missing.

Panimerus EATON, 1913

Panimerus denticulatus KREK, 1971 – 2 males; EUR

Črnuče nr. Ljubljana, Sračja dolina valley (S of Rašica), forest edge, spring area, M, 22. 6. 2000, J, INS 9760; Karavanke Alpe Mts., Zgornje Jezersko, Mlinar, forest, spring area, M, 28. 6. 2000, J, INS 9780.

Veg.: 13, 15, 21, 42, 53; 73, 76, 78, 81, 87, 96.

Paramormia ENDERLEIN, 1935

subg. **Duckhousiella** VAILLANT, 1972

Paramormia (Duckhousiella) ustulata (WALKER, 1856) – 2 males; HOL

Brezovica nr. Potok env. Kamnik, forest edge, pasture, small gutter, M, 16. 9. 1999, J, INS 8404; between Tunjška Mlaka and Laniše nr. Kamnik, meadows, brook, dunghill, M, 5. 9. 1999, J, INS 9276.

Veg.: 14, 25, 30, 38, 53, 67; 73, 75, 78, 83, 87.

Peripsychoda ENDERLEIN, 1935

Peripsychoda auriculata (CURTIS, 1839) – 6 males; EUR

Bohor, Planina pri Sevnici, Stara Žaga, Sevnica brook, 580 m a. s. l., spring area, M, 2. 7. 2000, J, INS 9792; Cerknica, Žerovnica, Žerovniščica brook, 560 m a. s. l., settlement, M, 25. 9. 1999, J, INS 9384; Črnuče nr. Ljubljana, spring area, brook, rubbish, pollution, M, 22. 6. 2000, J, INS 9758; ditto, Sračja dolina valley (S of Rašica), forest edge, sources, M, 22. 6. 2000, J, INS 9761; Mokronog, Roženberk, Kostanjščica brook, 280 m a. s. l., small brooks, swamps, M, 15. 9. 1999, J, INS 9353; Spodnje Gameljne nr. Črnuče env. Ljubljana, Alnetum, bogs, Fe, M, 22.6.2000, J, INS 9764.

Veg.: 13, 15, 18, 25, 27, 41, 47, 53, 54, 56, 60, 64; 72, 73, 75, 76, 78, 81, 84, 87, 92, 96, 99.

Telmatoscopus EATON, 1904

Telmatoscopus britteni TONNOIR, 1940 – 2 males; EUR

Bohor nr. Veliki Koprivnik 982 m a. s. l., Zagorski potok brook, forest spring area, M, 2.

7. 2000, J, INS 9820; Kozle, Bistri Graben, Tovornik, Bistri graben brook, forest, spring area, slate laying strata of limestone, M, 2. 7. 2000, J, INS 9812.
 Veg.: 25, 28, 42, 44, 47, 54, 67; 71, 81, 87, 96.

Telmatoscopus carthusianus (VAILLANT, 1972) – 1 male; EUR
 Julijske Alpe Mts., Triglav National Park, between Koča na Planini pri Jezeru (chalet) and Stara Fužina, 1000 m a. s. l., wet rocky wall, M, 7. 7. 2000, J, INS 9784.
 Veg.: 42, 54; 81, 87, 95.
 Trichopsychodina

Feuerborniella VAILLANT, 1971

Feuerborniella obscura (TONNOIR, 1919) – 2 males; EUR
 Bohor, Planina pri Sevnici, Stara Žaga, Sevnica brook, 580 m a. s. l., spring area, M, 2. 7. 2000, J, INS 9795; Karavanke Alpe Mts., Spodnje Jezersko, Podlog, Reka brook, forest, rocks, ledges, M, 28. 6. 2000, J, INS 9834.
 Veg.: 2, 13, 25, 42, 47, 54, 56; 73, 75, 81, 87, 96, 99.

Philosepedon EATON, 1904

Philosepedon austriacum VAILLANT, 1974 – 2 males; EUWS
 Julijske Alpe Mts., Trenta, Koča pri izvirov Soče, Soča river, 900 m a. s. l., bridge, M, 29. 9. 1999, J, INS 9421; Motnik env. Vransko, Motnišnica river, meanders, pasture, M, 7. 9. 1999, J, INS 8379.
 Veg.: 6, 7, 47, 56, 67; 72, 73, 77, 78, 83, 95.

Philosepedon soljani KREK, 1971 – 9 males; EUR
 Bohor, Planina pri Sevnici, Stara Žaga, Sevnica brook, 580 m a. s. l., spring area, M, 2. 7. 2000, J, SM; Motnik env. Vransko, Motnišnica river, windig flow, pastureland, M, 7. 9. 1999, J, SM; Gradišče env. Kamnik, slope forest spring area, crustated swamps, limestone, M, 16. 9. 1999, J, SM; Smoleva nr. Železniki, Prednja Smoleva brook, 580 m a. s. l., forest, mass movement of stones, water seepage, M, 8. 9. 1999, J, SM; Julijske Alpe Mts., Triglav National Park, Suha brook nr. Stara Fužina, M, 7. 7. 2000, J, SM; Soteska nr. Kamnik, forest, spring area, small brooks and gutters, 4 M, 11. 9. 1999, J, SM.
 Veg.: 6, 7, 25, 30, 32, 40, 42, 47, 54, 56, 67; 72, 73, 75, 77, 78, 81, 83, 87, 95, 96, 99.

Threticus EATON, 1904

Threticus balkaneolpinus KREK, 1972 – 14 males; EUR, TRANS
 Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., valley of a dry brook, M, 13. 9. 1999, J, INS 9368; ditto, Obrne, fountain-head nr. road, Sava Bohinjka river, M, 13. 9. 1999, J, INS 9293; Davča nr. Železniki, Davški slapovi 1000 m a. s. l., wet slope forest tongue, M, 8. 9. 1999, J, INS 9457; Jastrobje nr. Špitalič, small forest brook, M, 7. 9. 1999, J, INS 9281; Kamniške Alpe Mts., Kamniška Bistrica, Dom v Kamniški Bistrici, Izvir Kam. Bistrice, small lake, outflow, spring area, stones, M, 6. 9. 1999, J, INS 9388; ditto, Kraijev Hrib, pools of a small dry brook nr. aerial ropeway, M, 6. 9. 1999, J, INS 9413; ditto, Mali Izvir env. Mešenik 1099 m a. s. l., spring area, stones, M, 6. 9. 1999, J, INS 9332; Kamniško – Savinjske Alpe, Matkov kot, Jezera stream, spring area, M, 23. 6. 2000, J, INS 9787; Ledine (lake) nr. Železniki, Jelovica hills, forest waterfalls, southern tributary, peatbog, 1100 m a. s. l., stream, cowpats, M, 9. 9. 1999, J, INS 9341; Podnart, Dobravica, 390 m a. s. l., fields, meadows, forest edge, spring area, M, 9. 9. 1999, J, INS 8410; Smoleva nr. Železniki, Prednja Smoleva brook, 580 m a. s. l., forest, slope seepage tongue, M, 8. 9. 1999, J, INS 9292; Soteska nr. Kamnik, forest, spring area, rills, small brooks, M, 11. 9. 1999, J, INS 9295; Vir nr. Kamnik, forest edge, slope spring area, M, 11. 9. 1999, J, INS 9331; Železniki, Martinj vrh hill, Zadnja Smoleva brook, 700 m a. s. l., forest, deep valley, seepage rocky walls and gorges, M, 8. 9. 1999, J, INS 8388.

Veg.: 10, 13, 14, 20, 25, 26, 30, 33, 37, 40–42, 46, 47, 49, 54, 56, 64, 67; 72, 73, 75, 77, 78, 81, 83, 87, 89, 92, 95, 96.

Threticus negrobovi VAILLANT, 1972 – 1 male; EUR, TRANS

Gradišče v Tuhinju nr. Kamnik, slope forest spring area, crustated swamp, limestone, M, 16. 9. 1999, J, INS 9409.

Veg.: 25, 32, 40, 42; 81, 87, 96.

Trichopsychoda TONNOIR, 1922

Trichopsychoda hirtella (TONNOIR, 1919) – 4 males, 7 females; EUR

Ajdovščina, spring of the river Hubelj, blue light trap, M, 16. 6. 2000, J, INS 9777; Bistra (Grad Bistra) nr. Vrhnika env. Ljubljana, manor, dilapidated low walls, park, spring area, swamps, F, 12. 9. 1999, J, INS 9419; Goričko Mts., between Šalovci and Trnjevi, 245 m a. s. l., swamps, F, 20. 9. 1999, J, INS 9432; Ig nr. Ljubljana, Ižica spring, settlement, small lake, spring area, polluted gutter, F, 12. 9. 1999, J, INS 9357; Julijske Alpe Mts., Podklopca nr. Žaga and Sepenica, Sušec brook, swamps, small brooks, F, 29. 6. 2000, J, INS 9789; ditto, Triglav National Park, Bohinjsko jezero lake 525 m a. s. l. env. Stara Fužina, pastures, F, 14. 9. 1999, J, INS 9315; Karavanke Alpe Mts., Spodnje Jezerško, Kokra brook, spring area, F, 28. 6. 2000, J, INS 9837; Ledine (lake) nr. Železniki, Jelovica hills, southern tributary, peatbog, 1100 m a. s. l., forest, waterfalls, stream, cowpats, F, 9. 9. 1999, J, INS 9343; Sela pri Kamniku nr. Podhruška, settlement, wet canyon-sides, river and brook, mountain road, M, 11. 9. 1999, J, INS 9390; Soteska nr. Kamnik, forest, spring area, rills, small brooks, M, 11. 9. 1999, J, INS 9297; Vir nr. Kamnik, forest edge, slope spring area, M, 11.9.1999, J, INS 9324.

Veg.: 4, 8, 10, 13–16, 25, 27, 30, 33, 40–42, 47, 54, 56, 60, 64, 67; 72, 73, 75, 78, 81–83, 85, 87, 90, 91, 95, 96.

PSYCHODINI

Chodopsycha JEŽEK, 1984

Chodopsycha lobata (TONNOIR, 1940) – 2 males, 9 females; EUR

Bistra (Grad Bistra) nr. Vrhnika env. Ljubljana, manor, dilapidated low walls, park, spring area, swamps, F, 12. 9. 1999, J, INS 9416; Gradišče v Tuhinju nr. Kamnik, slope forest spring area, crustated swamp, limestone, F, 16. 9. 1999, J, INS 9403; Hruševka nr. Kamnik, Hruševka brook, forest edge, pastures, F, 16. 9. 1999, J, INS 9395; Ig nr. Ljubljana, Ižica spring, settlement, small lake, spring area, polluted gutter, F, 12. 9. 1999, J, INS 9356; Jastrobļje nr. Špitalič, small forest brook, F, 7. 9. 1999, J, INS 9282; Julijske Alpe Mts., Triglav National Park, Koča bohinjskih prvoborcev na Vojah (chalet) env. Stara Fužina, Mostnica brook, M, 7. 7. 2000, J, INS 9774; Kamniške Alpe Mts., between Saint Florian church and Prapretno, env. Stahovica, forest, spring area, rill, F, 22. 9. 1999, J, INS 9462; Karavanke Alpe Mts., Savske Jame nr. Planina pod Golico env. Jesenice, 1035 m a. s. l., forest slopes, swamps, streams, F, 23. 9. 1999, J, INS 9428; Ledine (lake) nr. Železniki, Jelovica hills, forest, southern tributary, peatbog, 1100 m a. s. l., F, 9.9.1999, J, INS 9342; Plešče, Čabranka river, seepage rocky wall, M, 10. 9. 1999, J, INS 8383; Sevnica, Lisičje Jame, Brezje 350 m a. s. l., forest, deeply nicked brook, F, 15. 9. 1999, J, INS 9338.

Veg.: 3, 4, 8, 13–15, 21, 25, 26, 32, 35, 37, 40–42, 44, 47, 54, 56, 60, 64, 67; 72, 73, 75–78, 81, 83, 87, 90, 92, 95, 96.

Logima EATON, 1904

Logima albipennis (ZETTERSTEDT, 1850) – 7 females; COS

Ajdovščina, spring of the river Hubelj, blue light trap, F, 16. 6. 2000, J, INS 9798; Hruševka nr. Kamnik, Hruševka brook, forest edge, pastures, F, 16. 9. 1999, J, INS 9394; Julijske

Alpe Mts., Triglav National Park, Bohinjsko jezero lake 525 m a. s. l. env. Stara Fužina, pastures, F, 14. 9. 1999, J, INS 9314; ditto, Trenta, Koča pri izviru Soče (chalet), Soča river, 900 m a. s. l., bridge, F, 29. 9. 1999, J, INS 9420; Plešče, Čabranka river, seepage rocky wall, F, 10. 9. 1999, J, INS 8384; Špitalič env. Motnik, forest, slope, swamp, F, 7. 9. 1999, J, INS 8420; Vir nr. Kamnik, forest edge, slope spring area, F, 11. 9. 1999, J, INS 9321. Veg.: 8, 10, 13, 16, 25, 30, 33, 40, 42, 47, 53, 54, 56, 67; 72, 75, 78, 81, 83, 85, 87, 91, 95, 96.

Logima erminea (EATON, 1893) – 1 male, 11 females; PAL

Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., canyon of a dry brook, F, 13. 9. 1999, J, INS 9376; Brezovica nr. Potok env. Kamnik, forest edge, rill, pasture, F, 16. 9. 1999, J, INS 8401; Gradišče v Tuhinju nr. Kamnik, slope forest spring area, crustated swamp, limestone, F, 16. 9. 1999, J, INS 9410; Hruševka nr. Kamnik, Hruševka brook, forest edge, pastures, F, 16. 9. 1999, J, INS 9400; Kamniške Alpe Mts., between Saint Florian church and Prapretno, env. Stahovica, forest, spring area, rill, M, 22. 9. 1999, J, INS 9463; settlement Kuželj 236 m a. s. l. nr. Brod na Kolpi, river, hills, swamps, Alnetum, F, 10. 9. 1999, J, INS 8398; Lijak (spring) nr. Loke env. Nova Gorica, pools on the dry river bed, vineyards, limestone, F, 16. 6. 2000, J, INS 9801; Mokronog, Roženberk, Kostanjšičica brook 280 m a. s. l., small brooks, swamps, F, 15. 9. 1999, J, INS 9352; Podnart, Dobravica, 390 m a. s. l., fields, meadows, forest edge, spring area, F, 9. 9. 1999, J, INS 8408; Soteska nr. Kamnik, forest, spring area, rills, small brooks, F, 11. 9. 1999, J, INS 9303; Vir nr. Kamnik, forest edge, slope spring area, F, 11. 9. 1999, J, INS 9328; Višnja Gora, Dedni Dol, Višnjica brook, 400 m a. s. l., wet meadows, F, 15. 9. 1999, J, INS 9426. Veg.: 8, 10, 13–15, 18, 25–27, 30–33, 40–42, 47, 49, 50, 53, 54, 56, 67; 73, 75, 76, 78, 81, 83, 87, 92, 94–96.

Logima satchelli (QUATE, 1955) – 1 male, 7 females; HOL

Ajdovščina, spring of the river Hubelj, area of seepage rocks, limestones, sweeping and blue light trap, 2F, 16. 6. 2000, J, INS 9778 and 9831; Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., gorge, a dry brook bed, F, 13. 9. 1999, J, INS 9364; Bohor, Planina pri Sevnici, Stara Žaga, Sevnica brook, 580 m a. s. l., spring area, F, 2. 7. 2000, J, INS 9793; Hruševka nr. Kamnik, Hruševka brook, forest edge, pastures, F, 16. 9. 1999, J, INS 9401; Julijske Alpe Mts., Triglav National Park, Bohinjsko jezero lake 525 m a. s. l. env. Stara Fužina, pastures, M, 14. 9. 1999, J, INS 9317; ditto, Koča na Planini pri Jezeru (chalet), pasture, cattle excrements, F, 6. 7. 2000, J, INS 9842; Soteska nr. Kamnik, forest, spring area, rills, small brooks, F, 11. 9. 1999, J, INS 9306. Veg.: 8, 16, 25, 30, 31, 42, 47, 49, 54, 56, 57, 67; 73, 75, 78, 79, 81, 83, 85, 87, 91, 95, 96, 99.

Logima zetterstedti JEŽEK, 1983 – 5 females; EUWS

Ajdovščina, spring of the river Hubelj, blue light trap, F, 16. 6. 2000, J, INS 9775; Brezovica nr. Potok env. Kamnik, forest edge, pasture, rill, F, 16. 9. 1999, J, INS 8403; Hruševka nr. Kamnik, Hruševka brook, forest edge, pastures, F, 16. 9. 1999, J, INS 9396; Julijske Alpe Mts., Triglav National Park, Bohinjsko jezero lake 525 m a. s. l. env. Stara Fužina, pastures, F, 14. 9. 1999, J, INS 9313; Motnik env. Vransko, Motnišnica river, meanders, pasture, F, 7. 9. 1999, J, INS 8372. Veg.: 6–8, 14, 16, 25, 30, 47, 53, 54, 56, 67; 72, 73, 75, 77, 78, 81, 83, 85, 87, 91, 95.

Psycha JEŽEK, 1984

Psycha grisescens (TONNOIR, 1922) – 3 females; EUR

Hruševka nr. Kamnik, Hruševka brook, forest edge, pastures, F, 16. 9. 1999, J, INS 9402; Plešče, Čabranka river, wet seepage rocky wall, F, 10. 9. 1999, J, INS 8385; Soteska nr. Kamnik, forest, spring area, rills, small brooks, F, 11. 9. 1999, J, INS 9307.

Veg.: 8, 25, 30, 40, 42, 47, 54, 67; 75, 81, 83, 87, 96.

***Psychoda* LATREILLE, 1796**

***Psychoda phalaenoides* (LINNÉ, 1758) – 2 males, 7 females; HOL**

Cerknica, Žerovnica, Žerovniščica brook, 560 m a. s. l., settlement, F, 25. 9. 1999, J, INS 9378; Kamniške Alpe Mts., between Saint Florian church and Prapretno, env. Stahovica, forest, spring area, rill, M, 22. 9. 1999, J, INS 9465; Karavanke Alpe Mts., Črni potok brook nr. Markljev Rovt env. Planina pod Golico 1070 m a. s. l., swamps, F, 23. 9. 1999, J, INS 9460; ditto, Savske Jame nr. Planina pod Golico env. Jesenice, 1035 m a. s. l., forest slopes, swamps, streams, F, 23. 9. 1999, J, INS 9429; ditto, Spodnje Jezersko, Podlog, Reka brook, forest, rocks, crags, F, 28. 6. 2000, J, INS 9835; settlement Kuželj 236 m a. s. l. nr. Brod na Kolpi, river, hills, swamps, Alnetum, F, 10. 9. 1999, J, INS 8397; Ledine (lake) nr. Železniki, Jelovica hills, forest, southern tributary, peatbog, 1100 m a. s. l., waterfalls, stream, cattle excrements, F, 9. 9. 1999, J, INS 9340; Vir nr. Kamnik, forest edge, slope spring area, F, 11. 9. 1999, J, INS 9323; Zelenci, spring of the river Sava, Rateče, small lakes, blue clean water, M, 23. 9. 1999, J, INS 9454.

Veg.: 2, 10, 13–15, 25–27, 33, 41, 42, 47, 54, 56, 60, 64, 67; 73, 75, 76, 78, 81, 83, 84, 87, 88, 95.

***Psychoda uniformata* HASEMAN, 1907 – 5 females; HOL**

Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., gorge, dry brook bed, F, 13. 9. 1999, J, INS 9369; Hruševka nr. Kamnik, Hruševka brook, forest margin, pastures, F, 16. 9. 1999, J, INS 9399; Ig nr. Ljubljana, Ižica spring, settlement, small lake, spring area, polluted gutter, F, 12. 9. 1999, J, INS 9358; Lijak (spring) nr. Loke env. Nova Gorica, pools in the river bed, vineyards, limestones, F, 16. 6. 2000, J, INS 9803; between Tunjiška Mlaka and Laniše nr. Kamnik, meadows, brook, dunghill, F, 5.9.1999, J, INS 9274.

Veg.: 4, 8, 15, 31, 38, 42, 47, 49, 54, 56, 67; 73, 75, 78, 81, 83, 87, 92, 94, 96.

***Psychodocha* JEŽEK, 1984**

***Psychodocha cinerea* (BANKS, 1894) – 4 males; COS**

Motnik env. Vransko, Motnišnica river, meanders, pasture, M, 7. 9. 1999, J, INS 8370; Podnart, Dobravica, 390 m a. s. l., fields, meadows, forest edge, spring area, M, 9. 9. 1999, J, INS 8409; Smoleva nr. Železniki, Prednja Smoleva brook, 580 m a. s. l., forest, slope seepage tongue, M, 8. 9. 1999, J, INS 9291; Višnja Gora, Dedni Dol, Višnjica brook, 400 m a. s. l., callow meadows, M, 15. 9. 1999, J, INS 9423.

Veg.: 6, 7, 13, 15, 40–42, 47, 50, 54, 56, 67; 72, 73, 75, 77, 78, 81, 83, 87, 95.

***Psychodocha gemina* (EATON, 1904) – 7 males, 23 females; EUR**

Bistra (Grad Bistra) nr. Vrhnika env. Ljubljana, manor, park, spring area, swamps, dilapidated low walls, F, 12. 9. 1999, J, INS 9417; Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., gorge, dry brook bed, F, 13. 9. 1999, J, INS 9365; Bohor nr. Veliki Koprivnik 982 m a. s. l., Zagorski potok brook, forest spring area, F, 2. 7. 2000, J, INS 9819; Brezovica nr. Potok env. Kamnik, forest edge, pasture, rill, M, 16. 9. 1999, J, INS 8407; Cerknica, Žerovnica, Žerovniščica brook, 560 m a. s. l., settlement, F, 25. 9. 1999, J, INS 9380; Črni Vrh v Tuhinju nr. Cirkuše v Tuhinju, Kozjak 658 m a. s. l., clay, slope meadow spring area, rill, F, 7. 9. 1999, J, INS 9285; Davča nr. Železniki, Davški slapovi 1000 m a. s. l., seepage dive forest tongue, F, 8. 9. 1999, J, INS 9456; Dobrovnik, Bukovnica, Bukovniško jezero lake, Bukovniški potok brook, 200 m a. s. l., F, 20. 9. 1999, J, INS 9443; Gradišče v Tuhinju nr. Kamnik, slope forest spring area, crustated swamp, limestone, F, 16. 9. 1999, J, INS 9405; Hruševka nr. Kamnik, Hruševka brook, forest margin, pastures, F, 16. 9. 1999, J, INS 9397; Jastrobļje nr. Špitalič, small forest brook, F, 7. 9. 1999, J, INS 9280; Julijske Alpe Mts., Triglav National Park, between

Koča na Planini pri Jezeru (chalet) and Stara Fužina, 1000 m a. s. l., seepage rocky wall, M, 7. 7. 2000, J, INS 9785; ditto, 1300 m a. s. l., pools on a footway, F, 7. 7. 2000, J, INS 9810; Kamniške Alpe Mts., between Saint Florian church and Prapretno, env. Stahovica, forest, spring area, rill, F, 22. 9. 1999, J, INS 9461; Karavanke Alpe Mts., Črni potok brook nr. Markljev Rovt env. Planina pod Golico 1070 m a. s. l., swamps, M, 23. 9. 1999, J, INS 9459; ditto, Savske Jame nr. Planina pod Golico env. Jesenice, 1035 m a. s. l., forest slopes, marshes, streams, F, 23. 9. 1999, J, INS 9427; ditto, Spodnje Jezersko, Kokra brook, spring area, F, 28. 6. 2000, J, INS 9840; Kamniško – Savinjske Alpe, Zgornja Kokra, Vobenca brook, rocks, F, 28. 6. 2000, J, INS 9843; Kopišča nr. Kamniška Bistrica, Dolski Graben brook, M, 6. 9. 1999, J, INS 9320; Ledine (lake) nr. Železniki, Jelovica hills, southern tributary, peatbog, 1100 m a. s. l., forest, waterfalls, stream, cattle excrements, F, 9. 9. 1999, J, INS 9339; Luša nr. Škofja Loka, Luša brook, 400 m a. s. l., meadows, forest, slope wet tongue, M, 9. 1999, J, INS 9287; Motnik env. Vransko, Motnišnica river, meanders, pasture, F, 7. 9. 1999, J, INS 8371; Plešče, Čabranka river, seepage rocky wall, M, 10. 9. 1999, J, INS 8386; Slapar nr. Markovo env. Kamnik, wet scythed meadow, settlement, brook, F, 11. 9. 1999, J, INS 9311; Smoleva nr. Železniki, Prednja Smoleva brook, 580 m a. s. l., forest, slope seepage tongue, F, 8. 9. 1999, J, INS 9290; Soteska nr. Kamnik, forest, spring area, rills, small brooks, M, 11. 9. 1999, J, INS 9301; between Šmartno v Tuhinju and Gradišče v Tuhinju nr. Kamnik, pasture, slope spring area, cattle footprints, F, 16. 9. 1999, J, INS 9445; between Tunjiška Mlaka and Laniše nr. Kamnik, brook, meadows, dunghill, F, 5. 9. 1999, J, INS 9278; Vir nr. Kamnik, forest edge, slope spring area, F, 11. 9. 1999, J, INS 9322; Zelenci, spring of the Sava river, Rateče, small lakes, blue clean water, F, 23. 9. 1999, J, INS 9453.

Veg.: 1, 2, 6–8, 10, 13–15, 20, 25–28, 30, 32, 33, 37, 38, 40–42, 44, 47, 49, 53, 54, 56, 58, 60, 64, 67; 72, 73, 75–79, 81, 83, 84, 87, 88, 90, 92, 95, 96.

***Psychodula* JEŽEK, 1984**

***Psychodula minuta* (BANKS, 1894) – 1 female; HOL**

Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., gorge, dry brook bed, F, 13. 9. 1999, J, INS 9370.

Veg.: 42, 49, 67; 73, 78, 87, 96.

***Psychomora* JEŽEK, 1984**

***Psychomora trinodulosa* (TONNOIR, 1922) – 6 females; HOL**

Brezovica nr. Potok env. Kamnik, forest edge, pasture, rill, F, 16. 9. 1999, J, INS 8406; Gradišče v Tuhinju nr. Kamnik, slope forest spring area, crustated swamp, limestone, F, 16. 9. 1999, J, INS 9412; Hruševka nr. Kamnik, Hruševka brook, forest edge, pasture, F, 16. 9. 1999, J, INS 9392; Kamniške Alpe Mts., between Saint Florian church and Prapretno, env. Stahovica, forest, spring area, rill, F, 22. 9. 1999, J, INS 9464; settlement Kuželj 236 m a. s. l. nr. Brod na Kolpi, river, hills, bogs, F, 10. 9. 1999, J, INS 8396; between Šmartno v Tuhinju and Gradišče v Tuhinju nr. Kamnik, slope spring area, pasture, cattle footprints, F, 16. 9. 1999, J, INS 9446.

Veg.: 8, 14, 15, 25, 26, 30, 32, 40, 42, 47, 53, 54, 67; 72, 73, 75, 78, 81, 83, 87, 95, 96.

***Psychomora vanharai* JEŽEK, 1995 – 1 male; EUR**

Kamniške Alpe Mts., between Saint Florian church and Prapretno, env. Stahovica, forest, spring area, rill, M, 22. 9. 1999, J, INS 9466.

Veg.: 25, 47, 54; 75, 76, 78, 81.

***Tinearia* SCHELLENBERG, 1803**

***Tinearia alternata* (SAY, 1824) – 7 males, 10 females; COS**

Ajdovščina, spring of the river Hubelj, blue light trap, F, 16. 6. 2000, J, INS 9776; Brje

pri Komnu env. Gorjansko, F, 19. 9. 1999, G, INS 9386; Brezovica nr. Potok env. Kamnik, forest edge, pasture, rill, F, 16. 9. 1999, J, INS 8402; Goričko Mts., between Šalovci and Trnjevc, 245 m a. s. l., swamps, F, 20. 9. 1999, J, INS 9431; Hruševka nr. Kamnik, Hruševka brook, forest edge, pastures, M, 16. 9. 1999, J, INS 9398; Ig nr. Ljubljana, Ižica source, settlement, small lake, spring area, polluted gutter, F, 12. 9. 1999, J, INS 9360; Jastroblje nr. Špitalič, small forest brook, M, 7. 9. 1999, J, INS 9283; Julijske Alpe Mts., Triglav National Park, Bohinjsko jezero lake 525 m a. s. l. env. Stara Fužina, pastures, F, 14. 9. 1999, J, INS 9316; ditto, Savica river nr. Bohinjsko jezero lake, M, 14. 9. 1999, J, INS 9474; Laniše nr. Kamnik, slope meadow spring area, sludge, cattle excrements, M, 5. 9. 1999, J, INS 9337; Lijak (spring) nr. Loke env. Nova Gorica, pools in the river bed, vineyards, limestones, M, 16. 6. 2000, J, INS 9805; Mokronog, Roženberk, Kostanjšiča brook 280 m a. s. l., small brooks, swamps, F, 15. 9. 1999, J, INS 9355; Motnik env. Vransko, Motnišnica river, meanders, pasture, F, 7. 9. 1999, J, INS 8369; between Šmartno v Tuhinju and Gradišče v Tuhinju nr. Kamnik, slope spring area, pasture, cattle footprints, M, 16. 9. 1999, J, INS 9447; between Tunjiška Mlaka and Laniše nr. Kamnik, brook, meadows, dunghill, F, 5. 9. 1999, J, INS 9277; Vir nr. Kamnik, F, 11. 9. 1999, J, INS 9325, forest edge, slope spring area; Višnja Gora, Dedni Dol, Višnjica brook, 400 m a. s. l., wet meadows, M, 15. 9. 1999, J, INS 9424.

Veg.: 4, 6–8, 10, 14–16, 18, 21, 25–27, 30, 31, 33, 37, 38, 42, 47, 50, 53, 54, 56, 60, 65, 67; 72, 73, 75, 77, 78, 81–83, 85, 87, 91, 92, 94–96.

PERICOMINI

Berdeniella VAILLANT, 1976

Berdeniella calabricana WAGNER, 1994 – 96 males; SUBM

Ajdovščina, spring of the river Hubelj, limestone, wet rocks, wells, 12 M, 16. 6. 2000, J, SM; Julijske Alpe Mts., Podklopca nr. Žaga and Sepenica, Sušec brook, swamps, small brooks, 7 M, 29. 6. 2000, J, SM; ditto, Triglav National Park, between Koča na Planini pri Jezeru (chalet) and Stara Fužina, 900 m a. s. l., large wet rocky wall, waterfalls, 60 M, 7. 7. 2000, J, SM; ditto, 1000 m a. s. l., wet rocky wall, 6 M, 7. 7. 2000, J, SM; ditto, Suha brook nr. Stara Fužina, 3 M, 7. 7. 2000, J, SM; Mangart pass, 1800–1900 m a. s. l., wet rock, 8 M, 29. 6. 2000, J, SM.

Veg.: 25, 31, 41, 42, 47, 54, 56, 59; 73, 75, 79, 81, 82, 87, 88, 95, 96.

Berdeniella carinthiaca WAGNER, 1978 – 18 males; EUR (alpine)

Julijske Alpe Mts., Podklopca nr. Žaga and Sepenica, Sušec brook, swamps, small brooks, 13 M, 29. 6. 2000, J, SM; ditto, Zadnjica nr. Trenta, Krajcarica brook, forest, spring area, 3 M, 27. 6. 2000, J, SM; ditto, Triglav National Park, Zadnja Trenta, Suhi potok brook, wet rocky walls and platforms, waterfalls, 2 M, 27. 6. 2000, J, SM.

Veg.: 21, 24, 25, 39, 40–42, 47, 54, 69; 73, 81, 87, 95, 96.

Berdeniella unispinosa (TONNOIR, 1919) – 12 males; EUR

Ajdovščina, spring of the river Hubelj, limestones, spring area, seepage rocks, M, 16. 6. 2000, J, INS 9833; Julijske Alpe Mts., Podklopca nr. Žaga and Sepenica, Sušec brook, swamps, small brooks, M, 29. 6. 2000, J, INS 9790; ditto, Zadnjica nr. Trenta, Krajcarica brook, forest, spring area, M, 27. 6. 2000, J, INS 9817; ditto, Triglav National Park, Koča bohinjskih prvoborcev na Vojah (chalet) env. Stara Fužina, Mostnica brook, M, 7. 7. 2000, J, INS 9772; ditto, Suha brook nr. Stara Fužina, M, 7. 7. 2000, J, INS 9796; ditto, Zadnja Trenta, Suhi potok brook, seepage rocky walls, platforms, waterfalls, M, 27. 6. 2000, J, INS 9769; Kamniško – Savinjske Alpe Mts., Matkov kot, Jezera stream, spring area, M, 23. 6. 2000, J, INS 9788; ditto, Zgornja Kokra, Vobenca brook, rocks, M, 28. 6. 2000, J, INS 9827; Karavanke Alpe Mts., Jezersko, Zgornje Fužine, Kokra brook, M, 28.

6. 2000, J, INS 9797; ditto, Spodnje Jezersko, Kokra brook, spring area, M, 28. 6. 2000, J, INS 9841; ditto, Podlog, Reka brook, rocks, crags, forest, M, 28. 6. 2000, J, INS 9816; ditto, Zgornje Jezersko, Mlinar, forest, spring area, M, 28. 6. 2000, J, INS 9781.

Veg.: 2, 3, 8, 13, 20, 21, 24, 25, 31, 38–42, 44, 47, 54, 56, 58, 69; 72, 73, 75, 78, 79, 81, 83, 87, 95, 96.

Clytocyclus EATON, 1904

subg. *Boreoclytocyclus* DUCKHOUSE, 1978

Clytocyclus (Boreoclytocyclus) dalii (EATON, 1893) – 1 male; EUR

Gradišče v Tuhinju nr. Kamnik, slope forest spring area, crustated swamp, limestone, M, 16. 9. 1999, J, INS 9411.

Veg.: 25, 32, 40, 42; 81, 87, 96.

Clytocyclus (Boreoclytocyclus) ocellaris (MEIGEN, 1804) – 17 males; EUR

Cerknica, Žerovnica, Žerovniščica brook, 560 m a. s. l., settlement, M, 25. 9. 1999, J, INS 9379; Črnuče nr. Ljubljana, Sračja dolina valley (S of Rašica), forest edge, spring area, M, 22. 6. 2000, J, INS 9759; Dobrovnik, Bukovnica, Bukovniško jezero lake, Bukovniški potok brook, 200 m a. s. l., M, 20. 9. 1999, J, INS 9439; Goričko Mts., Mačkovci, Mačkovski potok brook, 290 m a. s. l., Alnetum, M, 20. 9. 1999, J, INS 9438; ditto, between Šalovci and Trnjevi, 245 m a. s. l., swamps, M, 20. 9. 1999, J, INS 9436; Hruševka nr. Kamnik, Hruševka brook, forest edge, pastures, M, 16. 9. 1999, J, INS 9393; Julijske Alpe Mts., Triglav National Park, Koča na Planini pri Jezeru (chalet) nr. Stara Fužina, 1300 m a. s. l., pathway pools, M, 7. 7. 2000, J, INS 9809; settlement Kuželj 236 m a. s. l. nr. Brod na Kolpi, river, hills, swamps, Alnetum, M, 10. 9. 1999, J, INS 8399; Ljubljana, Central Park (east part), houses, gardens, rill, M, 2. 9. 1999, J, INS 8368; between Ljubljana and Spodnje Gameljne, Sračja dolina valley, forest, spring area, Alnetum, Fe, M, 22. 6. 2000, J, INS 9756; Mokronog, Roženberk, Kostanjščica brook 280 m a. s. l., small brooks, marshes, M, 15. 9. 1999, J, INS 9351; Sečovlje, Sečovljske soline, the sea shore and swamps exploited by the Salt Industry Museum, 0 m a. s. l., lane, M, 24.9.1999, J, INS 9472; Slapar nr. Markovo env. Kamnik, settlement, wet cut meadow, brook, M, 11. 9. 1999, J, INS 9310; Soteska nr. Kamnik, forest, spring area, rills, small brooks, M, 11. 9. 1999, J, INS 9302; Spodnje Gameljne env. Črnuče nr. Ljubljana, Alnetum, swamps, Fe, M, 22. 6. 2000, J, INS 9767; between Šmartno v Tuhinju and Gradišče v Tuhinju nr. Kamnik, slope spring area, pasture, tramples, M, 16. 9. 1999, J, INS 9450; Višnja Gora, Dedni Dol, Višnjica brook, 400 m a. s. l., wet meadows, M, 15. 9. 1999, J, INS 9425.

Veg.: 2, 8, 13–15, 18, 19, 25–27, 30, 41, 42, 47, 48, 50, 53, 54, 56, 60, 63, 64, 67; 72, 73, 75, 76, 78, 81–84, 87, 92, 95, 96, 98.

Parabazarella VAILLANT, 1983

Parabazarella subneglecta (TONNOIR, 1922) – 1 male; EUA

Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., gorge, dry brook bed, M, 13. 9. 1999, J, INS 9367.

Veg.: 42, 49, 67; 73, 78, 87, 96.

Pericoma WALKER, 1856

subg. *Pachypericoma* VAILLANT, 1978

Pericoma (Pachypericoma) blandula EATON, 1893 – 17 males; EUR

Ajdovščina, spring of the river Hubelj, limestones, spring area, seepage rocks, M, 16. 6. 2000, J, INS 9829; Bistra (Grad Bistra) nr. Vrhnika env. Ljubljana, manore, park, spring area, swamps, dilapidated low walls, M, 12. 9. 1999, J, INS 9418; Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., gorge of a dry brook, M, 13. 9. 1999, J, INS 9366; Cerkni-

ca, Žerovnica, Žerovniščica brook, 560 m a. s. l., settlement, M, 25. 9. 1999, J, INS 9377; Fara nr. Brod na Kolpi, Nežica waterfall 170 m a. s. l., seepage rocky walls, limestone, crustated swamps, M, 10. 9. 1999, J, INS 9347; Ig nr. Ljubljana, Ižica spring, settlement, small lake, spring area, polluted gutter, M, 12. 9. 1999, J, INS 9361; Julijske Alpe Mts., Podklopca nr. Žaga and Sepenica, Sušec brook, marshes, small brooks, M, 29. 6. 2000, J, INS 9791; Koper, Dekani, Rižana river, 40 m a. s. l., M, 24. 9. 1999, J, INS 9469; Koper, Lopar, Rokava brook, 220 m a. s. l., M, 24. 9. 1999, J, INS 9444; Zgornja Idrija, between Čekovnik and Idrijska Bela, wet canyonsides, river, mountain road, M, 18. 6. 2000, J, INS 9825; Lijak (spring) nr. Loke env. Nova Gorica, pools in the watercourse, vineyard, limestones, M, 16. 6. 2000, J, INS 9802; Motnik env. Vransko, Motnišnica river, meanders, pasture, M, 7. 9. 1999, J, INS 8375; Podnart, Dobravica, 390 m a. s. l., fields, meadows, forest edge, spring area, M, 9. 9. 1999, J, INS 8411; ditto, Gobovce, 400 m a. s. l., crustated spring area, road, small pond, forest, M, 9. 9. 1999, J, INS 8393; Ribjek nr. Osilnica, Ribiški potok brook, village, small church, hills, limestone, M, 10. 9. 1999, J, INS 9308; Sela pri Kamniku nr. Podhruška, settlement, brook, concrete dike, overhung tufts of grass, M, 11. 9. 1999, J, INS 9389; between Šmartno v Tuhinju and Gradišče v Tuhinju nr. Kamnik, slope spring area, pasture, tramples, M, 16. 9. 1999, J, INS 9448. Veg.: 4, 6–8, 13, 15, 20, 25, 27, 31, 33, 41, 42, 47, 49, 52–54, 56, 60, 67; 72, 73, 75, 77–81, 83, 84, 87, 90, 92, 94–96.

***Pericoma (Pachypericoma) fallax* EATON, 1893 – 4 males; EUWS**

Cerknica, Žerovnica, Žerovniščica brook, 560 m a. s. l., settlement, M, 25. 9. 1999, J, INS 9383; Dobrovnik, Bukovnica, Bukovniško jezero lake, Bukovniški potok brook, 200 m a. s. l., M, 20. 9. 1999, J, INS 9440; Kamnik, small polluted brook, rubbish, M, 5. 9. 1999, J, INS 9470; Sevnica, Dolnje Orle, Impoljski potok brook, 320 m a. s. l., Alnetum, marshes, M, 9. 1999, J, INS 8394.

Veg.: 13, 15, 25, 27, 37, 41, 54, 56, 60, 65, 67; 73, 75, 79, 84, 92, 96.

subg. *Pericoma* s. str.

***Pericoma* (s. str.) *calcilega* FEUERBORN, 1923 – 2 males; EUR**

Karavanke Alpe Mts., Spodnje Jezersko, Kokra brook, spring area, M, 28. 6. 2000, J, INS 9838; Kozle, Bistri Graben, Tovornik, Bistri graben brook, slate laying limestone strata, spring area, forest, M, 2.7.2000, J, INS 9811.

Veg.: 8, 40, 42, 47; 71, 78, 81, 87, 95.

***Pericoma* (s. str.) *exquisita* EATON, 1893 – 3 males; EUR, TRANS**

Koper, Dekani, Rižana river, 40 m a. s. l., M, 24. 9. 1999, J, INS 9467; Zgornja Idrija, between Čekovnik and Idrijska Bela, wet canyonsides, river, mountain road, M, 18. 6. 2000, J, INS 9823; Lijak (spring) nr. Loke env. Nova Gorica, pools of the water-gate, vineyard, limestones, M, 16. 6. 2000, J, INS 9804.

Veg.: 8, 25, 31, 42, 52, 56; 75, 80, 81, 90, 92, 94, 95.

***Pericoma* (s. str.) *pannonica* SZABÓ, 1960 – 7 males; EUR**

Lijak (spring) nr. Loke env. Nova Gorica, pools in the dry watercourse, vineyard, limestone, 7 M, 16. 6. 2000, J, SM.

Veg.: 31, 42, 56; 92, 94.

***Pericoma* (s. str.) *pseudoexquisita* TONNOIR, 1940 – 11 males; EUR**

Ajdovščina, spring of the river Hubelj, limestones, spring area, seepage rocks, blue light trap and sweeping, 2M, 16. 6. 2000, J, INS 9779 and 9830; Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., gorge of a dry brook, M, 13. 9. 1999, J, INS 9371; Brezje nr. Bohinjska Bela, limestone rocks, stream, forest, M, 13. 9. 1999, J, INS 9319; Cerknica, Žerovnica, Žerovniščica brook, 560 m a. s. l., settlement, M, 25. 9. 1999, J, INS 9381;

Fara nr. Brod na Kolpi, Nežica waterfall, 170 m a. s. l., seepage rocky walls, limestone, crustated swamps, M, 10. 9. 1999, J, INS 9345; Ig nr. Ljubljana, Ižica spring, settlement, small lake, spring area, polluted gutter, M, 12. 9. 1999, J, INS 9363; Koper, Dekani, Rižana river, 40 m a. s. l., M, 24. 9. 1999, J, INS 9468; Zgornja Idrija, between Čekovnik and Idrijska Bela, wet canyon sides, river, mountain road, M, 18. 6. 2000, J, INS 9824; Plešče, Čabrana river, seepage rocky wall, M, 10. 9. 1999, J, INS 8381; Sela pri Kamniku nr. Podhruška, settlement, brook, concrete dike, overhung tufts of grass, M, 11. 9. 1999, J, INS 9391.

Veg.: 4, 8, 13, 15, 20, 25, 27, 31, 33, 40–42, 49, 51, 52, 54, 56, 60, 67; 73, 75, 78–81, 83–85, 87, 88, 90, 92, 94–96.

Pericoma* (s. str.) *trifasciata (MEIGEN, 1804) – 6 males; EUR

Ajdovščina, spring of the river Hubelj, limestones, spring area, wet rocks, M, 16. 6. 2000, J, INS 9832; Karavanke Alpe Mts., Spodnje Jezersko, Kokra brook, spring area, M, 28. 6. 2000, J, INS 9839; Zgornja Idrija, between Čekovnik and Idrijska Bela, wet canyon sides, river, mountain road, M, 18. 6. 2000, J, INS 9807; Motnik env. Vransko, Motnišnica river, meanders, pasture, 2M, 7. 9. 1999, J, INS 8373 and 8376; Podnart, Gobovce, 400 m a. s. l., forest, crustated swamps, road, small pond, M, 9. 9. 1999, J, INS 8392.

Veg.: 6–8, 20, 25, 31, 40, 42, 47, 54, 56, 67; 72, 73, 75, 77–79, 81, 83, 87, 95, 96.

***Pneumia* ENDERLEIN, 1935**

Pneumia crispi (FREEMAN, 1953) – 3 males; EUR

Fara nr. Brod na Kolpi, Nežica waterfall, 170 m a. s. l., seepage rocky walls, limestone, crustated swamps, M, 10. 9. 1999, J, INS 9346; Soteska nr. Kamnik, forest, spring area, rills, small brooks, M, 11. 9. 1999, J, INS 9299; Špitalič env. Motnik, forest, slope, swamp, M, 7. 9. 1999, J, INS 8418.

Veg.: 13, 20, 25, 30, 33, 42, 53, 54; 75, 78, 81, 87, 96.

Pneumia gracilis gracilis (EATON, 1893) – 1 male; EUR

Špitalič env. Motnik, forest, slope, swamp, M, 7. 9. 1999, J, INS 8417.

Veg.: 13, 25, 30, 53, 54; 78, 81, 87, 96.

Pneumia mutua (EATON, 1893) – 4 males; EUR

Julijske Alpe Mts., Triglav National Park, Koča bohinjskih prvoborcev na Vojah (chalet) env. Stara Fužina, Mostnica brook, M, 7. 7. 2000, J, INS 9773; ditto, Stara Fužina, forest fountain, M, 7. 7. 2000, J, INS 9836; ditto, Zadnja Trenta, Suhi potok brook, seepage rocky walls, platforms, waterfalls, M, 27. 6. 2000, J, INS 9768; Karavanke Alpe Mts., Zgornje Jezersko, Mlinar, forest, spring area, M, 28. 6. 2000, J, INS 9782.

Veg.: 3, 13, 21, 24, 30, 42, 44, 45, 56, 61, 69; 73, 78, 81, 87, 95, 96.

Pneumia nubila (MEIGEN, 1818) – 29 males; EUR

Bistra (Grad Bistra) nr. Vrhnika env. Ljubljana, manor, dilapidated low walls, park, spring area, swamps, M, 12. 9. 1999, J, INS 9414; Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., gorge of a dry brook, M, 13. 9. 1999, J, INS 9375; Bohor nr. Veliki Koprivnik 982 m a. s. l., Zagorski potok brook, forest spring area, M, 2. 7. 2000, J, INS 9822; Brezovica nr. Potok env. Kamnik, forest edge, pasture, rill, M, 16. 9. 1999, J, INS 8405; Cerknica, Žerovnica, Žerovništica brook, 560 m a. s. l., settlement, M, 25. 9. 1999, J, INS 9382; Črnuče nr. Ljubljana, spring area, brook, rubbish, pollution, M, 22. 6. 2000, J, INS 9757; ditto, Sračja dolina valley (S of Rašica), forest edge, spring area, M, 22. 6. 2000, J, INS 9763; Dobrovnik, Bukovnica, Bukovniško jezero lake, Bukovniški potok brook, 200 m a. s. l., M, 20. 9. 1999, J, INS 9441; Goričko Mts., between Šalovci and Trnjevcji, 245 m a. s. l., swamps, M, 20. 9. 1999, J, INS 9435; Gradišče v Tuhinju nr. Kamnik, slope forest

spring area, crustated swamps, limestone, M, 16. 9. 1999, J, INS 9404; Ig nr. Ljubljana, Ižica spring, settlement, small lake, spring area, polluted gutter, M, 12. 9. 1999, J, INS 9359; settlement Kuželj 236 m a. s. l. nr. Brod na Kolpi, river, hills, Alnetum, bogs, M, 10. 9. 1999, J, INS 8400; Lijak (spring) nr. Loke env. Nova Gorica, pools in the bed, vineyard, limestones, M, 16. 6. 2000, J, INS 9806; Ljubljana, Central Park (east part), houses, gardens, rill, M, 2. 9. 1999, J, INS 8366; Mokronog, Roženberk, Kostanjščica brook, 280 m a. s. l., small brooks, swamps, M, 15. 9. 1999, J, INS 9354; Motnik env. Vransko, Motnišnica river, meanders, pasture, M, 7. 9. 1999, J, INS 8378; Podnart, Dobravica, 390 m a. s. l., fields, meadows, forest edge, spring area, M, 9. 9. 1999, J, INS 8413; ditto, Gobovce, 400 m a. s. l., crustated spring area, road, small pond, forest, M, 9.9.1999, J, INS 8391; Ribjek nr. Osilnica, Ribiški potok brook, hills, village, small church, limestone, M, 10. 9. 1999, J, INS 9309; Sečovlje, Sečoveljske soline, 0 m a. s. l., the sea shore and swamps exploited by the Salt Industry Museum, field walk, M, 24. 9. 1999, J, INS 9473; Sevnica, Dolnje Orle, Impoljski potok brook, 320 m a. s. l., Alnetum, marshes, M, 9. 1999, J, INS 8395; Slapar nr. Markovo env. Kamnik, settlement, wet cut meadow, brook, M, 11. 9. 1999, J, INS 9312; Soteska nr. Kamnik, forest, spring area, rills, small brooks, M, 11. 9. 1999, J, INS 9305; Spodnje Gameljne env. Črnuče nr. Ljubljana, Alnetum, bogs, Fe, M, 22. 6. 2000, J, INS 9765; between Šmartno v Tuhinju and Gradišče v Tuhinju nr. Kamnik, slope spring area, pasture, cattle footprints, M, 16. 9. 1999, J, INS 9451; Špitalič env. Motnik, forest, slope, swamp, M, 7. 9. 1999, J, INS 8415; between Tunjška Mlaka and Laniše nr. Kamnik, brook, meadows, dunghill, M, 5. 9. 1999, J, INS 9275; Vir nr. Kamnik, slope spring area, forest edge, M, 11. 9. 1999, J, INS 9330; Vojnik, Jankova, Drežnica brook, spring area, Fe, 390 m a. s. l., M, 17. 9. 1999, J, INS 9455. Veg.: 4, 6, 7, 10, 13–15, 18, 20, 25–28, 30–33, 38, 40–42, 44, 47–49, 53, 54, 56, 60, 64, 67; 72, 73, 75–78, 81–84, 87, 90, 92, 94–96, 98.

Pneumia palustris (MEIGEN, 1804) – 11 males; EUR

Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., gorge of a dry brook, M, 13. 9. 1999, J, INS 9372; Fara nr. Brod na Kolpi, Nežica waterfall, 170 m a. s. l., seepage rocky walls, limestone, crustated swamps, M, 10. 9. 1999, J, INS 9349; Gradišče v Tuhinju nr. Kamnik, slope forest spring area, crustated swamp, limestone, M, 16.9.1999, J, INS 9406; Kamnik, small polluted brook, rubbish, M, 5. 9. 1999, J, INS 9471; Laniše nr. Kamnik, slope meadow spring area, willow, cowpats, M, 5. 9. 1999, J, INS 9335; Mokronog, Roženberk, Kostanjščica brook, 280 m a. s. l., small brooks, swamps, M, 15. 9. 1999, J, INS 9350; Motnik env. Vransko, Motnišnica river, meanders, pasture, M, 7. 9. 1999, J, INS 8374; Soteska nr. Kamnik, forest, spring area, rills, small brooks, M, 11. 9. 1999, J, INS 9296; between Šmartno v Tuhinju and Gradišče v Tuhinju nr. Kamnik, slope spring area, pasture, cattle footprints, M, 16. 9. 1999, J, INS 9449; Špitalič env. Motnik, forest, slope, swamp, M, 7. 9. 1999, J, INS 8416; Vir nr. Kamnik, slope spring area, forest edge, M, 11. 9. 1999, J, INS 9327.

Veg.: 6, 7, 10, 13, 15, 18, 20, 21, 25, 27, 30, 32, 33, 37, 40–42, 47, 49, 53, 54, 56, 65, 67; 72, 73, 75, 77–79, 81, 83, 87, 95, 96.

Pneumia plumicornis (TONNOIR, 1922) – 2 males; EUR

Karavanke Alpe Mts., Črni potok brook nr. Markljev Rovt env. Planina pod Golico, 1070 m a. s. l., marshes, M, 23. 9. 1999, J, INS 9458; ditto, Savske Jame nr. Planina pod Golico env. Jesenice, 1035 m a. s. l., forest slopes, swamps, streams, M, 23. 9. 1999, J, INS 9430.

Veg.: 13, 14, 25, 42, 54, 60; 73, 81, 87.

Pneumia trivialis (EATON, 1893) – 5 males; EUR

Dobrovnik, Bukovnica, Bukovniško jezero lake, Bukovniški potok brook, 200 m a. s. l., M, 20. 9. 1999, J, INS 9442; Goričko Mts., Mačkovci, Mačkovski potok brook, 290 m a. s. l., Alnetum, M, 20. 9. 1999, J, INS 9437; ditto, between Šalovci and Trnjevci, 245 m a. s. l., swamps, M, 20. 9. 1999, J, INS 9433; between Ljubljana and Spodnje Gameljne, Sračja dolina valley, forest, Alnetum, spring area, Fe, M, 22. 6. 2000, J, INS 9755; Spodnje Gameljne env. Črnuče nr. Ljubljana, Alnetum, swamps, Fe, M, 22. 6. 2000, J, INS 9766.

Veg.: 13, 15, 19, 27, 54, 56, 60, 63, 64, 67; 73, 75, 78, 81, 82, 87, 92, 95, 96.

Szaboiella VAILLANT, 1979

Szaboiella hibernica (TONNOIR, 1940) – 1 male; EUR

Julijske Alpe Mts., Triglav National Park, between Koča na Planini pri Jezeru (chalet) and Stara Fužina, 900 m a. s. l., large wet rocky wall, waterfalls, M, 7. 7. 2000, J, INS 9770.

Veg.: 42, 56; 87.

Ulomyia WALKER, 1856

Ulomyia cognata (EATON, 1893) – 9 males; EUR

Bohinjska Bela nr. Bled, Peračica 902 m a. s. l., gorge of a dry brook, M, 13. 9. 1999, J, INS 9373; Čabar, Čabranka river, border bridge, waterfalls, limestone rocks, M, 10. 9. 1999, J, INS 9387; Fara nr. Brod na Kolpi, Nežica waterfall, 170 m a. s. l., seepage rocky walls, limestone, crustated swamps, M, 10. 9. 1999, J, INS 9344; Laniše nr. Kamnik, slope meadow spring area, mud, cowpats, M, 5. 9. 1999, J, INS 9334; Mali Izvir nr. Kamniška Bistrica env. Mešenik, 1099 m a. s. l., spring area, stones, M, 6. 9. 1999, J, INS 9333; Motnik env. Vransko, Motnišnica river, meanders, pasture, M, 7. 9. 1999, J, INS 8380; Soteska nr. Kamnik, forest, spring area, rills, small brooks, M, 11. 9. 1999, J, INS 9298; between Tunjiška Mlaka and Laniše nr. Kamnik, meadows, brook, dunghill, M, 5. 9. 1999, J, INS 9279; Vir nr. Kamnik, slope spring area, forest edge, M, 11. 9. 1999, J, INS 9326.

Veg.: 6, 7, 10, 20, 21, 25, 30, 33, 37, 38, 40, 42, 47, 49, 54, 56, 67; 72, 73, 75, 77, 78, 81, 83, 87, 95, 96.

Ulomyia fuliginosa (MEIGEN, 1804) – 18 males; EUR

Bistra (Grad Bistra) nr. Vrhnika env. Ljubljana, manor, dilapidated low walls, park, spring area, swamps, M, 12. 9. 1999, J, INS 9415; Bohinjska Bela nr. Bled, Peračica, 902 m a. s. l., gorge of a dry brook, M, 13. 9. 1999, J, INS 9374; Bohor nr. Veliki Koprivnik 982 m a. s. l., Zagorski potok brook, forest spring area, M, 2. 7. 2000, J, INS 9821; Črni Vrh v Tuhinju nr. Cirkuše v Tuhinju, Kozjak 658 m a. s. l., clay, slope meadow spring area, rill, M, 7. 9. 1999, J, INS 9286; Fara nr. Brod na Kolpi, Nežica waterfall, 170 m a. s. l., seepage rocky walls, limestone, crustated swamps, M, 10. 9. 1999, J, INS 9348; Goričko Mts., between Šalovci and Trnjevci, 245 m a. s. l., swamps, M, 20. 9. 1999, J, INS 9434; Gradišče v Tuhinju nr. Kamnik, slope forest spring area, crustated swamp, limestone, M, 16. 9. 1999, J, INS 9408; Ig nr. Ljubljana, Ižica spring, settlement, small lake, spring area, polluted gutter, M, 12. 9. 1999, J, INS 9362; Laniše nr. Kamnik, slope meadow spring area, mud, cowpats, M, 5. 9. 1999, J, INS 9336; Ljubljana, Central Park (east part), houses, gardens, rill, M, 2. 9. 1999, J, INS 8367; Obrne nr. Bohinjska Bela env. Bled, seepage below a road, Sava Bohinjka river, M, 13. 9. 1999, J, INS 9294; Podnart, Dobravica, 390 m a. s. l., fields, meadows, forest edge, spring area, M, 9. 9. 1999, J, INS 8412; ditto, Gobovce, 400 m a. s. l., crustated spring area, road, small pond, forest, M, 9. 9. 1999, J, INS 8390; Soteska nr. Kamnik, forest, spring area, rills, small brooks, M, 11. 9. 1999, J, INS 9304; between Šmartno v Tuhinju and Gradišče v Tuhinju nr. Kamnik,

slope spring area, pasture, cattle footprints, M, 16. 9. 1999, J, INS 9452; Špitalič env. Motnik, forest, slope, swamp, M, 7. 9. 1999, J, INS 8414; Višnja Gora, Dedni Dol, Višnjica brook, 400 m a. s. l., wet meadows, M, 15.9.1999, J, INS 9422; Železniky, Martinj vrh hill, Zadnja Smoleva brook, 700 m a. s. l., seepage rocky walls and gorges, chimes, forest, M, 8.9.1999, J, INS 8387.
Veg.: 4, 13, 15, 20, 21, 25, 27, 28, 30, 32, 33, 37, 40–42, 44, 47, 49, 50, 53, 54, 56, 60, 67; 72, 73, 75, 78, 81–83, 87, 90, 92, 95, 96, 98.

COMMENTS ON THE ZOOGEOGRAPHY OF SOME INTERESTING SPECIES

Psychomora vanharai JEŽ. – known from Moravia: the Pálava Biosphere Reserve of UNESCO (Ježek, 1995), Odra river valley (Ševčík, 2001), Slovenia: Kamniške Alpe Mts. – see above, and the Carpathians (Ševčík, manuscript). Larvae of this species are fungivorous (Ševčík, 2001) with a preference to *Amanita* PERSOON, 1797. Zoogeographical evaluation of these incomplete data is very difficult at present. The following species (mostly with aquatic larvae) are probably characteristic for montane biotopes. *Ulomyia vaseki* sp. n. reaches its northern limit just in the Hercynicum (Orlické hory Mts., Jizerské hory Mts., Jeřáb Mt., Králický Sněžník Mts., Rychlebské hory Mts. and Jeseníky Mts.), and passes through the Carpathians (Slovenské rudohorie Mts.) to the Alps (Julijske Alpe Mts. and Karavanke Alpe Mts.). *Promormia silesiensis* JEŽ. – the Carpathians, Moravsko-slezské Beskydy Mts. (Ježek, 1983), the Alps (Julijske Alpe Mts. and Karavanke Alpe Mts.), Greece – lakes near Vertiskos Mts., Chalkidiki (Ježek & Goutner, 1995). *Taramormia tatriva* JEŽ. – the Carpathians, Vysoké Tatry Mts. and Belanské Tatry Mts. (Ježek, 1984b), the Alps (Julijske Alpe Mts.). *Threticus negrobovi* VAILL. – Western Caucasus, Taberda (Vaillant, 1972), the Carpathians, Belanské Tatry Mts. (Ježek, 1993), the Alps (Kamniške Alpe Mts.). *Berdeniella calabricana* WAG. – the Southern Apennines Mts., Calabria (Wagner, 1994), the Slovenian Adriatic area (spring of the river Hubelj) and the Alps (Julijske Alpe Mts.). *B. carinthiaca* WAG. – Kärnten, between Hohe Tauern Mts. and Gurktaler Alpen Mts. (Wagner, 1978) and Julijske Alpe Mts. (three localities). *Berdeniella julianensis* sp. n. – Julijske Alpe Mts.

ACKNOWLEDGEMENTS

I feel that my gratitude should be expressed first to Dr. Ignac Sivec, Dr. Bogdan Horvat, Dr. Tomi Trilar, Dr. Matija Gogala and the others unnamed (Slovene Museum of Natural History, Ljubljana) for their support of my field and laboratory work. It is my pleasant duty to express my sincere thanks to Prof. Rüdiger Wagner (Max-Planck Limnological Institute, Schlitz), Dr. Paul Ready and Miss Zoe Adams (The Natural History Museum, London) and Dr. Fabrizio Rigato (Museo Civico di Storia Naturale, Milano) for the loan of the types in their charge. Thanks are due to Dr. Václav Kánský (Management of the Protected Landscape Area Orlické hory Mts., Rychnov nad Kněžnou), Dr. Karel Kočí (Management of the Protected Landscape Area Jeseníky Mts., Jeseník-Bukovice) and Dr. Jiří Veselý (Management of the Agency for Nature Conservation and Landscape Protection of the Czech Republic, section Pardubice) for their encouragement of my research in the Czech Republic. I am especially obliged to my friends Ing. Josef Hájek and Mr. Miloš Vašek (Management of the Protected Landscape Area Orlické hory Mts., Rychnov nad Kněžnou), who willingly undertook the periodical sampling of insects from traps. This study was elaborated with the financial support of the Ministry of culture of the Czech Republic MKOCZ99F0201. My stay in Slovenia was enabled by the programme Contact 1999–2001 organized by the Ministry of education (CZ).

REFERENCES

Coquillet, D. W. (1910): The type species of the North America genera of Diptera. – Proc. U. S. Nat. Mus., No. 1719, 37: 499–647.

- Curtis, J. (1839): British Entomology. 16. London, pls. 722–769, plus 96 unnumbered pages (p. [2] with pl. 745).
- Duckhouse, D. A. (1990): Problems in the Palaearctic moth-flies and the identity and affinities of *Pericoma undulata* TONNOIR and *P. plumata* TONN. (Diptera: Psychodidae). – Syst. Entomol., 15(3): 321–329.
- Enderlein, G. (1936): Klassifikation der Psychodiden (Dipt.). – Dtsch. ent. Z., Berlin, 4: 81–112.
- Fairchild, G. B. (1951): Some nomenclatorial notes on Psychodidae (Diptera). – Bull. Brooklyn ent. Soc., Lancaster, Pa., 46: 10–18.
- Feuerborn, H. J. (1922): Der sexuelle Reizapparat (Schmuck- Duft- und Berührungsorgane) der Psychodiden nach biologischen und physiologischen Gesichtspunkten untersucht. Zugleich ein Beitrag zur Kenntnis der Physiologie der Sinnesorgane und der Organe des Geschlechts- und Bereitschaftsduftes. – Arch. Natg. Berlin Abt. A, 88(4): 1–137.
- ICZN, 1999: International Code of Zoological Nomenclature, Fourth Edition. The International Trust for Zoological Nomenclature 1999 c/o The Natural History Museum – Cromwell Road – London SW7 5BD – UK, 126 pp.
- Ježek, J. (1977): Reinstatement of the genus *Tinearia* SCHELLENBERG (Diptera, Psychodidae). – Acta ent. bohemoslov., 74: 232–241.
- Ježek, J. (1983): Contribution to the knowledge of Mormiini End. (Diptera, Psychodidae) in Czechoslovakia. – Acta ent. Mus. Nat. Pragae, 41: 189–212.
- Ježek, J. (1984a): Nomenclatorial changes of some higher taxa of palaearctic Psychodinae (Diptera, Psychodidae). – Acta faun. ent. Mus. Nat. Pragae, 17: 155–170.
- Ježek, J. (1984b): Taxonomic notes on Mormiini (Diptera, Psychodidae) from the High Tatra National Park. – Acta ent. bohemoslov., 81: 223–231.
- Ježek, J. (1990): Key to genera (males) of the world Mormiini End. (Diptera, Psychodidae). – Čas. Nár. Muz. v Praze, Řada přírodověd., 155(1986): 141–144.
- Ježek, J. (1993): Notes on faunistic research of moth flies (Diptera, Psychodidae) of Tatra Mts. – Dipterologica bohemoslovaca, Bratislava, 5: 35–40. Slovak Entomological Society.
- Ježek, J. (1994): Catalogue of Holarctic and Afrotropical Mormiina End. (Diptera, Psychodidae, Psychodinae, Mormiini). – Čas. Nár. Muz. v Praze, Řada přírodověd., 161(1–4): 63–66.
- Ježek, J. (1995): Occasional paper on some interesting Palaearctic moth flies (Diptera, Psychodidae). – Dipterologica bohemoslovaca, Zvolen, 7: 85–96. Technical University.
- Ježek, J., Goutner, V. (1995): Psychodidae (Diptera) of Greece. – Acta Mus. Nat. Pragae, Series B, Historia Naturalis, 50(1994)(1–4): 107–124.
- Kertész, K. (1903): Band 1. Orthorrhapha Nematocera. In: Becker, T., Bezzi, M., Bischof, J., Kertész, K., Stein, P. (eds): Katalog der Paläarktischen Dipteren. Budapest, 396 pp.
- Kos, V., ed. (1996): Atlas Slovenije. 3. izd. Založba Mladinska knjiga in Geodetski zavod Slovenije, Ljubljana, 441 pp.
- Krek, S. (1972): Quelques larves et imagos de diptères Psychodidae trouvées en Yougoslavie. – Ann. Soc. ent. Fr. (N.S.), 8(2): 423–440.
- Malicky, H. (2000): Arealodynamik und Biomgrundtypen am Beispiel der Köcherfliegen (Trichoptera). Internationale Entomologen-Tagung Basel 1999. – Entomologica Basiliensia, 22: 235–259.
- Meigen, J. W. (1804): Klassifikation und Beschreibung der europäischen Zweiflügligen Insekten (Diptera Linn.). Band I. Braunschweig, K. Reichard, 152 pp.
- Meigen, J. W. (1818): Systematische Beschreibung der bekannten europäischen zweiflügeligen Insekten. Theil I. Aachen, F. W. Forstmann, 333 pp.
- Morge, G. (1975): Dipteren-Farbtafeln nach den bisher nicht veröffentlichten Original-Handzeichnungen Meigens: “Johann Wilhelm Meigen: Abbildung der europaeischen zweiflügeligen Insecten, nach der Natur”. I. – Beitr. Ent., Berlin, 25(2): 383–500.
- Morge, G. (1976): Dipteren-Farbtafeln nach den bisher nicht veröffentlichten Original-Handzeichnungen Meigens: “Johann Wilhelm Meigen: Abbildung der europaeischen zweiflügeligen Insecten, nach der Natur”. II, III. – Beitr. Ent., Berlin, 26(1, 2): 441, 543.
- Rapp, W. F. (1946): Catalogue of the types of genera and subgenera of Psychodidae. – Bull. Brooklyn ent. Soc. Lancaster, 40(1945): 172–177.
- Salamanna, G. (1983): Psicodidi delle collezioni del Museo civico di Storia naturale di Milano (Diptera Nematocera). – Atti Soc. ital. Sci. nat. Museo civ. Stor. nat. Milano, 124(3–4): 177–192.
- Schiner, J. R. (1864): Fauna Austriaca. Die Fliegen (Diptera). II. Theil. Wien, Carl Gerold's Sohn, 658 pp.
- Ševčík, J. (2001): Diptera (excluding Mycetophilidae s. str.) associated with fungi in Czech and Slovak Republics: a survey of rearing records from 1998–2000. – Acta Univ. Carol. Biol., 45 [Dipterologica bohemoslovaca Vol. 10]: 157–168.

- Tonnoir, A. L. (1922): Nouvelle contribution à l'étude des Psychodidae (Diptera) et description de dix espèces nouvelles d'Europe. – Ann. Soc. ent. Belg. Brussels, 62: 153–181.
- Vaillant, F. (1958): Trois *Telmatoctopus* nouveaux pour la France (Dipt. Psychodidae). – Bull. Soc. ent. France, Paris, 63: 45–49.
- Vaillant, F. (1967): Psychodidae. In: Illies, J. (ed.): Limnofauna Europea. Eine Zusammenstellung aller die europäischen Binnengewässer bewohnenden mehrzelligen Tierarten mit Angaben über ihre Verbreitung und Ökologie. Jena, VEB Gustav Fischer Verlag, pp. 325–329.
- Vaillant, F. (1971): Psychodidae – Psychodinae. In: Lindner, E. (ed.): Die Fliegen der Palaearktischen Region. Lief. 287, Stuttgart, E. Schweizerbart, pp. 1–48.
- Vaillant, F. (1972): Psychodidae – Psychodinae. In: Lindner, E. (ed.): Die Fliegen der Palaearktischen Region. Lief. 291 and 292, Stuttgart, E. Schweizerbart, pp. 49–78 and 79–108.
- Vaillant, F. (1975): Psychodidae – Psychodinae. In: Lindner, E. (ed.): Die Fliegen der Palaearktischen Region. Lief. 310, Stuttgart, E. Schweizerbart, pp. 143–182.
- Vaillant, F. (1976): Psychodidae – Psychodinae. In: Lindner, E. (ed.): Die Fliegen der Palaearktischen Region. Lief. 313, Stuttgart, E. Schweizerbart, pp. 183–238.
- Vaillant, F. (1981): Psychodidae – Psychodinae. In: Lindner, E. (ed.): Die Fliegen der Palaearktischen Region. Lief. 326, Stuttgart, E. Schweizerbart, pp. 271–311.
- Vaillant, F. (1983): Psychodidae – Psychodinae. In: Lindner, E. (ed.): Die Fliegen der Palaearktischen Region. Lief. 328, Stuttgart, E. Schweizerbart, pp. 312–358.
- Wagner, R. (1975): Sechs neue Psychodidenarten aus Deutschland und Österreich (Diptera, Psychodidae). – Mitt. dtsh. ent. Ges., 34: 1–9.
- Wagner, R. (1978): Neue europäische Psychodiden (Diptera: Psychodidae). – Senckenberg. biol., 58: 157–170.
- Wagner, R. (1982): A generic synonymy within Psychodidae (Diptera). – Aquatic Insects, 4(2): 80.
- Wagner, R. (1990): Family Psychodidae. In: Soós, A. (ed.): Catalogue of Palaearctic Diptera. Vol. 2, Psychodidae – Chironomidae. Akadémiai Kiadó, Budapest, pp. 11–65.
- Wagner, R. (1994): Two new Psychodid species of the *Berdeniella hovassei* species group (Diptera, Psychodidae) from Italy. – Dipterists Digest, Second Series, 1(1): 18–21.
- Wagner, R., Salamanna, G. (1983): Two new species of genus *Mormia* ENDERLEIN of the apicealba group (Diptera Psychodidae). – Boll. Soc. ent. ital., Genova, 115(8–10): 168–171.
- Walker, F. (1856): Insecta Britannica. Diptera. Vol. 3, London, 352 pp.
- Zelený, J. (1972): Entwurf einer Gliederung der Tschechoslowakei für Zwecke der faunistischen Forschung (mit 5 Abb.). – Zprávy Čs. spol. entomol. při ČSAV, Praha, 8: 3–16. (in Czech, Germ. summary)