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Psychodidae (Diptera) of the Orlické hory Protected Landscape Area and neighbouring areas with descriptions of two new species from the Czech Republic

Jan JEŽEK[1)] & Josef HÁJEK[2)]

[1)] Department of Entomology, National Museum, Kunratice 1, CZ-148 00 Praha 4, Czech Republic; e-mail: jan_jezek@nm.cz

[2)] Management of the Orlické hory Protected Landscape Area, Dobrovského 332, CZ-516 01 Rychnov nad Kněžnou, Czech Republic; e-mail: hajek@nature.cz

Abstract. Two new species of moth flies (Diptera: Psychodidae) of the genera *Parajungiella* Vaillant, 1972, and *Clytocerus* Eaton, 1904, *Parajungiella bohdanecensis* sp. nov. and *Clytocerus* (*Boreoclytocerus*) *splendidus* sp. nov., are described from the Czech Republic and all important male diagnostic characters are figured. Althogeter 29 genera and 66 species of moth flies (mainly Psychodinae, with only one genus and three species of Sycoracinae) are recorded from 145 localities in the Orlické hory Mts. and adjacent areas of eastern Bohemia and north-western Moravia. Distribution of some species and the conservation value of moth flies for the Orlické hory Protected Landscape Area is discussed. *Clytocerus* (*Boreoclytocerus*) *longicorniculatus* Krek, 1987, is recorded as new for the Czech Republic, based on specimens from southern Bohemia. The number of species of moth flies known to occur in Bohemia, Moravia and the Czech Republic rise to 130, 124 and 151, respectively.

Key words. Diptera, Psychodidae, *Parajungiella*, *Clytocerus*, taxonomy, faunistics, new species, new records, Czech Republic, Bohemia, Moravia

Introduction

The Psychodidae of the Czech Republic are still rather poorly known. In particular, data on non-phlebotomine moth flies from eastern Bohemia have been scattered in various papers and never summarized. New faunistic records and new taxa from the Orlické hory Mts. and their foothills were reported in a number of papers: *Tinearia alternata* (Say, 1824) and *T. lativentris* (Berdén, 1952) in Ježek (1977); *Logima albipennis* (Zetterstedt, 1850) and *L. zetterstedti* Ježek, 1983 in Ježek (1983a); *Threticus lucifugus* (Walker, 1856) in Ježek (1985b); *Chodopsycha lobata* (Tonnoir, 1940), *Psycha grisescens* (Tonnoir, 1922), *Psychoda phalaenoides* (Linnaeus, 1758), *Psychodocha gemina* (Eaton, 1904), and *Psychomora trinodulosa* (Tonnoir, 1922) in

Ježek (1990a); *Parajungiella ellisi* (Withers, 1987), *Philosepedon balkanicum* Krek, 1971, *Pneumia pilularia* (Tonnoir, 1940), *P. plumicornis* (Tonnoir, 1922), *Saraiella rotunda* (Krek, 1970), *Szaboiella hibernica* (Tonnoir, 1940), *Tonnoiriella nigricauda* (Tonnoir, 1919) and *Ulomyia plumata* (Tonnoir, 1919) in Ježek (1996); *Telmatoscopus hajeki* Ježek, 1997 in Ježek (1997a) and Macek et al. (2005); *Ulomyia vaseki* Ježek, 2002 in Ježek (2002) and Macek et al. (2005); *Psychoda crassipennis* Tonnoir, 1940, *Psychodocha itoco* (Tokunaga & Komyo, 1955), *Berdeniella matthesi* (Jung, 1954) and *B. stavniensis* (Krek, 1969) in Ježek (2003); *Lepiseodina rothschildi* (Eaton, 1912), *Peripsychoda zbytka* Ježek, 2004 and *Szaboiella hibernica* in Ježek (2004a); and *Pneumia trivialis* (Eaton, 1893) in Macek et al. (2005).

Here we record 66 species of moth flies of 29 genera (documented by 925 slides) from the Orlické hory Protected Landscape Area (abbreviated as PLA) and some adjacent areas. This number includes two new species in the genera *Parajungiella* Vaillant, 1972, and *Clytocerus* Eaton, 1904. Their type specimens were collected in a number of localities in the Czech Republic; altogether 54 slides).

Material and methods

Moth flies (thousands of specimens) were collected predominantly in years 1993-1997 in eastern Bohemia, mainly in the area of the Orlické hory PLA (Figs. 42-43, 45) and the Bohemian part of the Českomoravské mezihoří area. Most specimens were collected by sweeping (J. Ježek leg.), and a smaller part of the material was collected by others (P. Chvojka, J. Macek, M. Mašínová, B. Mocek, J. Olejníček, M. Vašek, and J. Hájek leg.). One of us (J. Hájek, together with M. Vašek) maintained a continuous field research programme in the Orlické hory PLA in the period 1993-2007. This programme regularly used Malaise traps (same type as in Fig. 52) and yellow pan traps (mainly in 1994). Pyramidal trap (Fig. 49) has been used only during several last years. Captured moth flies were preserved in 75% ethanol and selected specimens (except of the type material) were mounted on slides in Canada balsam (altogether 864). These are now deposited in the Department of Entomology of the National Museum in Prague, Czech Republic (abbreviated as NMPC). Slides of types and historical specimens (altogether 60) were labelled with two kinds of inventory numbers: Inv. No. = Inventory Slide Number of the family Psychodidae, and Cat. No. = Catalogue Number of Slide, i.e. series for the type material including historical specimens of the Diptera collection in NMPC.

The microphotographs were prepared by the trinocular eclipse microscope Nikon TS-100F with a photo port and digital camera.

Wing indices in the taxonomical part are based on the distances between the following points: A = tip of wing, B = radial fork, C = medial fork, D = tip of Cu; the distances are indicated by both extreme points. Maximum wing length is (approximately) equal to the distance from a line connecting the base of basal costal node to neala and the tip of the wing. Fore, middle and hind leg ratios (lengths of femora, tibiae and first tarsomeres) are indicated by P_1, P_2 and P_3, respectively.

Selected characteristic plants of the examined biotopes are listed along with the localities of each fly species in the faunistic part of this paper. A list and map of all 140 localities with detailed information is included (Figs. 42, 43) and supplied with the codes of Czech and

Slovak faunistic grid mapping (Zelený 1972, Pruner & Míka 1996). Five additional historical localities are not mapped and only mentioned in the chapter on the Composition of the fauna of all visited localities.

The conservation status of individual species follows the list by Ježek (2005).

The following abbreviations are used: NM – National Monument, NNR – National Nature Reserve, NP – National Park, NR – Nature Reserve, PLA – Protected Landscape Area; LT – light trap, MT – Malaise trap, PT – pyramidal trap, ST – sticky trap, YPT – yellow pan traps, ET – emergence trap, ALM – material deposited in alcohol; CR – critically endangered species, EN – endangered species, VU – vulnerable species, NS – species not assessed in red list (Ježek 2005). Collectors are abbreviated as C = Chvojka, H = Hájek, J = Ježek, Je = Ježková, Ma = Mašínová, Mo = Mocek, and V = Vašek. Vegetation at the locality is coded as follows: dominant taxa of undergrowth (1-102); dominant genera of trees (110 -128): 1 – *Aconitum*, 2 – *Actea*, 3 – *Aegopodium*, 4 – *Alisma*, 5 – *Allium*, 6 – *Andromeda*, 7 – *Anemone*, 8 – *Arnica*, 9 – *Aruncus*, 10 – *Asperula*, 11 – *Asplenium*, 12 – *Blechnum*, 13 – *Calamagrostis*, 14 – *Caltha*, 15 – *Cardamine*, 16 – *Carduus*, 17 – *Carex*, 18 – Chlorophyta, 19 – *Cirsium*, 20 – *Coeloglossum*, 21 – *Colchicum*, 22 – *Corydalis*, 23 – *Dactylorhiza*, 24 – *Daphne*, 25 – Apiaceae (= Daucaceae), 26 – *Dentaria*, 27 – *Deschampsia*, 28 – *Digitalis*, 29 – *Doronicum*, 30 – *Drosera*, 31 – *Epilobium*, 32 – *Equisetum*, 33 – *Eriophorum*, 34 – *Filipendula*, 35 – *Galium*, 36 – *Gentianella*, 37 – *Geranium*, 38 – *Geum*, 39 – *Glyceria*, 40 – *Goodyera*, 41 – *Gymnadenia*, 42 – *Hedera*, 43 – *Hypericum*, 44 – *Impatiens*, 45 – *Juncus*, 46 – *Lamium*, 47 – *Lappa*, 48 – *Lemna*, 49 – *Leucojum*, 50 – *Leucorchis*, 51 – *Ligusticum*, 52 – *Listera*, 53 – *Lunaria*, 54 – *Lupinus*, 55 – *Lycopodium*, 56 – *Lysimachia*, 57 – *Lythrum*, 58 – *Maianthemum*, 59 – *Marchantia*, 60 – Marchantiopsida, 61 – *Mentha*, 62 – *Menyanthes*, 63 – *Moneses*, 64 – *Montia*, 65 – Musci (= Bryophyta), 66 – *Myosotis*, 67 – *Nasturtium*, 68 – *Orchis*, 69 – *Oxalis*, 70 – *Pedicularis*, 71 – *Petasites*, 72 – *Phegopteris*, 73 – *Phragmites*, 74 – *Pinguicula*, 75 – Poaceae, 76 – *Polygonatum*, 77 – *Polygonum*, 78 – *Prenanthes*, 79 – *Primula*, 80 – Pteropsida, 81 – *Ranunculus*, 82 – *Ribes*, 83 – *Rosa*, 84 – *Rubus*, 85 – *Rumex*, 86 – *Scirpus*, 87 – *Sedum*, 88 – *Senecio*, 89 – *Sphagnum*, 90 – *Stachys*, 91 – *Streptopus*, 92 – *Symphytum*, 93 – *Telekia*, 94 – *Thalictrum*, 95 – *Traunsteineria*, 96 – *Trollius*, 97 – *Typha*, 98 – *Urtica*, 99 – *Vaccinium*, 100 – *Veratrum*, 101 – *Veronica*, 102 – *Viola*; 110 – *Abies*, 111 – *Acer*, 112 – *Aesculus*, 113 – *Alnus*, 114 – *Betula*, 115 – *Carpinus*, 116 – *Corylus*, 117 – *Fagus*, 118 – *Frangula*, 119 – *Fraxinus*, 120 – *Padus*, 121 – *Picea*, 122 – *Pinus*, 123 – *Populus*, 124 – *Salix*, 125 – *Sambucus*, 126 – *Sorbus*, 127 – *Thuja*, 128 – *Tilia*.

Taxonomy

Parajungiella bohdanecensis sp. nov.

(Figs. 1-17)

Type locality. Czech Republic, eastern Bohemia, Lázně Bohdaneč env., Bohdanečský rybník and rybník Matka ponds (NNR), Na Smíchově, 220 m a.s.l.

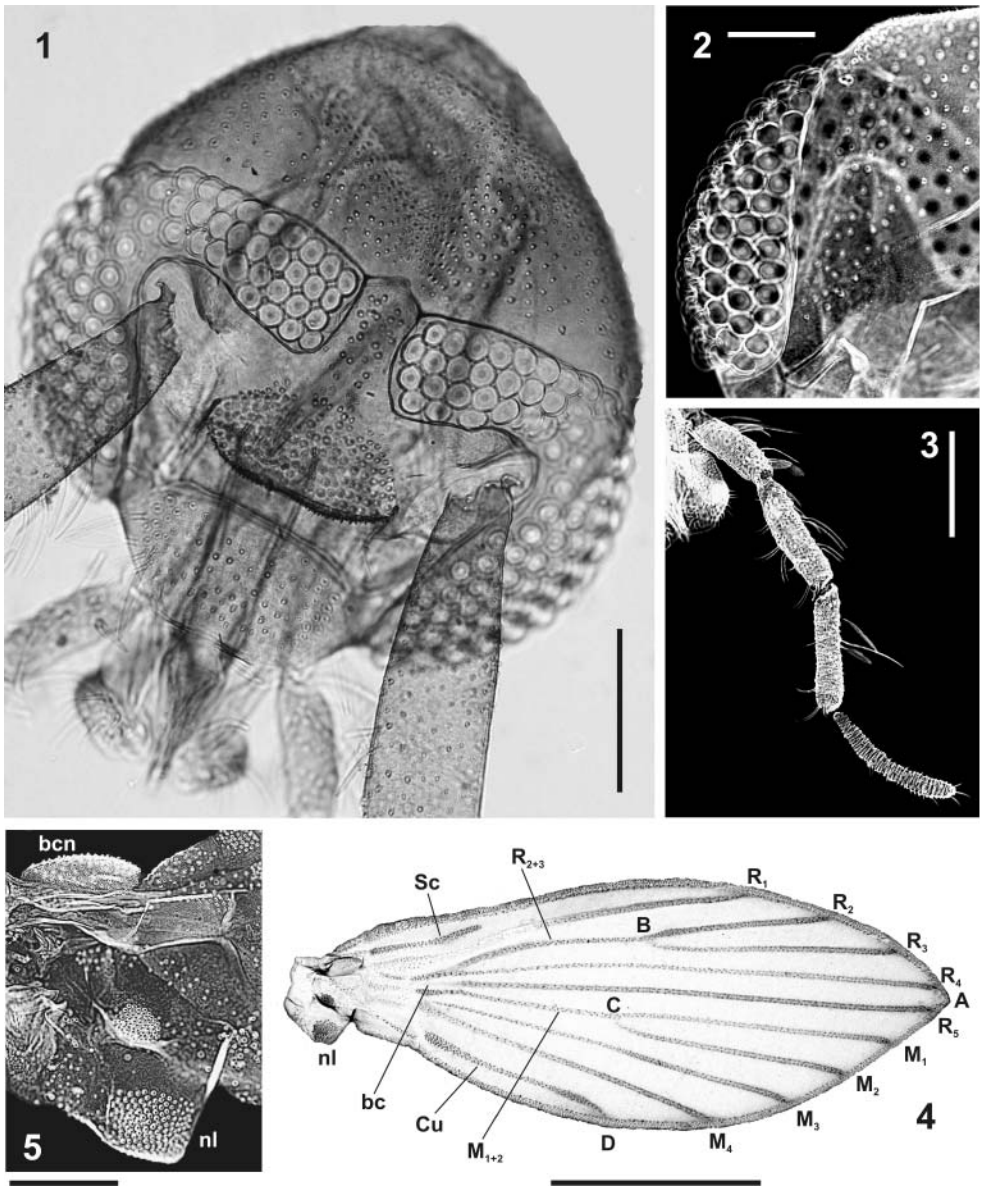
Type material. Holotype: ♂, **CZECH REPUBLIC:** Bohemia or., Lázně Bohdaneč (5860), Bohdanečský rybník and rybník Matka ponds (NNR), Loc. No. 142, Na Smíchově, swamps near shores of drain and pond, MT, 4.vii.2005, J. Ježek & B. Mocek leg. Slide with dissected specimen, Cat. No. 34391, Inv. No. 15766 (NMPC). Paratypes:

28 ♂♂ (slides, NMPC). The same locality, date and collectors as holotype, Cat. No. 34392-34395, Inv. No. 15767-15770 (4 ♂♂); same locality, Na Smíchově, bay near shore, MT, 23.vi.2004, J. Ježek & M. Fikáček leg., Cat. No. 34396-34398, Inv. No. 15771-15773 (3 ♂♂); same locality, Na Smíchově, swamps, MT, 21.vii. and 2.ix.2005, B. Mocek & J. Ježek leg., Cat. No. 34399-34404, Inv. No. 15774-15779 (6 ♂♂); same locality, Mlýny, drain, MT (Fig. 52), 4.vi.2004, J. Ježek & M. Fikáček leg., Cat. No. 34405-34406, Inv. No. 15780-15781 (2 ♂♂). BOHEMIA occ., Sokolov coal-mining area, Dolní Nivy (5741), foot of Velká podkrušnohorská výsypka dump, swamps, *Phragmites australis*, MT, 1.ix.2004, J. Ježek, J. Macek, P. Chvojka, M. Fikáček & J. Skuhrovec leg., Cat. No. 34407-34414, Inv. No. 15782-15789 (8 ♂♂); same area, Vřesová (5742), foot of Velká podkrušnohorská výsypka dump, swamps near road (Lomnice – Chodov), *Alnus* and *Scirpus*, MT, 12.viii.2004, J. Ježek, J.Macek, P. Chvojka, M. Fikáček & J. Skuhrovec leg., Cat. No. 34415-34418, Inv. No. 15790-15793 (4 ♂♂); same area, Svatava river (416.9 m a.s.l.) between Svatava and Luh nad Svatavou (5741), near Svatavský vrch hill (507.7 m a.s.l.), *Alnetum*, MT, 10.vi.2003, J. Ježek, P. Chvojka & J. Macek leg., Cat. No. 34419, Inv. No. 15794 (1 ♂).

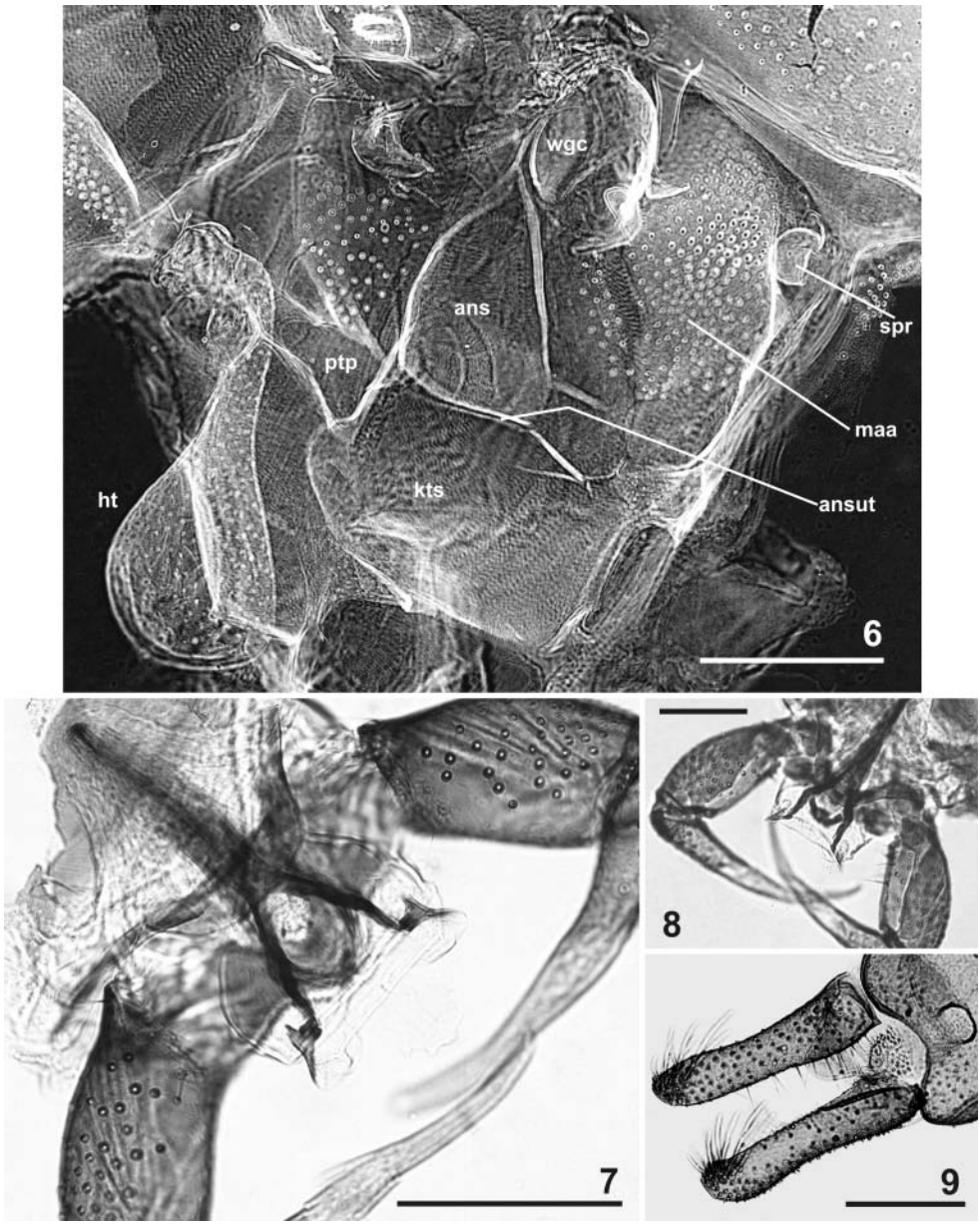
Description. Male. Eyes not touching, eye-bridge of four facet rows, frontoclypeus with almost horizontal oval patch of insertions of hairs connected with dorso-ventral stripe of irregularly arranged hair pits between dorsal blunt (cut) apices of eyes (Figs. 1, 2). Minimum distance between eyes 2.5 times as wide as diameter of facets. Ratios of distance of tangential points of ends of eyes to minimum width of frons and to facet diameter 4.8 : 1 and 12 : 1, respectively. Frontal suture broadly V-shaped, with very small triangular cavity in upper part. Antenna with 16 antennomeres. Scape very long, slightly widened distad (Fig. 10), four times as long as pedicel, the latter cask-shaped. Flagellomeres pitcher-shaped and asymmetrical, terminal flagellomere smaller, ovoid, with long excentric digitiform protuberance on top; a pair of ascoids as in Figs. 11, 12. Length ratios of maxillary palpomeres 1.0 : 1.2 : 1.3 : 1.5, palpomere 4 annulate (Fig. 3). Terminal lobe of labium bulbous (Fig. 1), with many sensory setae. Cibarium 1.7 times as long as epipharynx.

Thoracic sclerites as in Fig. 6. Wings (Figs. 4, 5) lancet-shaped, clear, 1.6-2.1 mm long (1.7 mm in holotype), wing membrane bare, radial and medial forks complete; the following veins or their parts strengthened: Sc, R_1 distally, R_{2+3} basally, R_2, R_3 distally, R_4 on both ends, R_5, M_{1+2} basally, M_1 distally, M_2 (not near medial fork), M_3 distally, M_4, and Cu. Basal costal nodes distinct (Fig. 5), Sc uninterrupted, bent slightly in one point; M_3 basally with connection to M_4 but not to Cu. R_5 extending distally and reaching wing margin a little behind apex of wing. Veins r-r, r-m and m-m not developed. Medial wing angle 163° (BCD). Wing indices AB : AC : AD = 3.8 : 4.0 : 4.3; BC : CD : BD = 1.0 : 1.2 : 2.2. Wing 2.7 times as long as wide. Haltere 3 times as long as wide (Fig. 6). Length ratios of femora, tibiae and first tarsal segments: P_1 = 1.8 : 2.2 : 1.0; P_2 = 2 : 2.8 : 1.2; P_3 = 2 : 3.2 : 1.2. Fore claws as in Fig. 13.

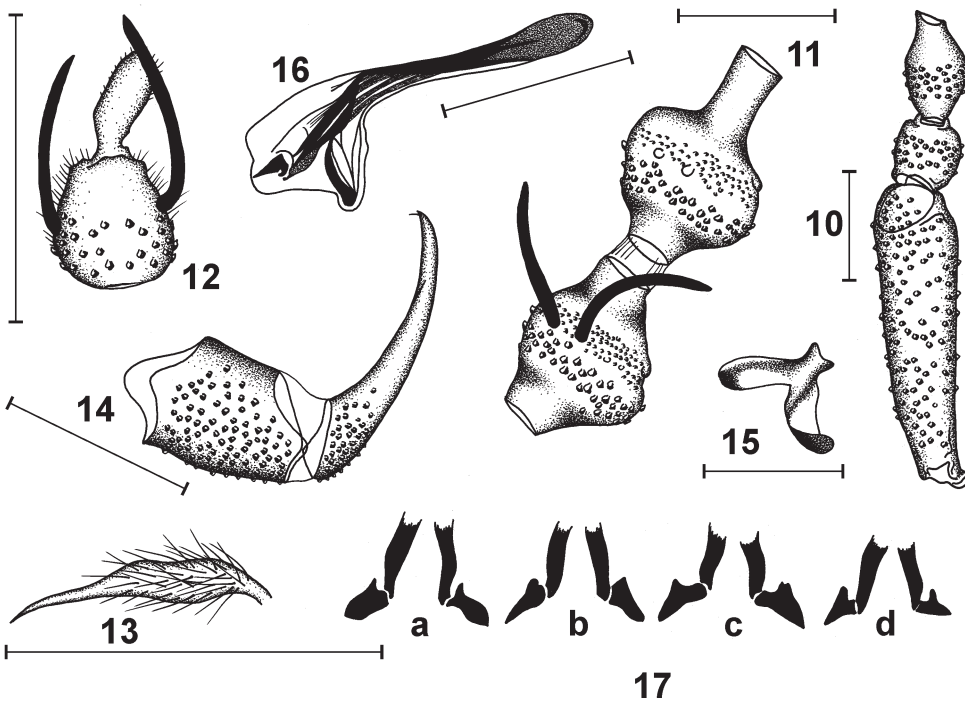
Basal apodeme of male genitalia straight and narrowed proximally to sharp end in dorsal view (Figs. 7, 8), expanded in lateral view (Fig. 16), and bifurcated distally. Aedeagal complex sack-shaped, with small lateral protuberances, inside with a pair of short harpoon-shaped sclerites, divergently luxated; furca developed (Figs. 7, 8, 15). Gonocoxite (Figs. 8, 14) cylindrical, rather long and straight. Gonostyle thick basally, gradually tapering to apex, almost 1.5 times as long as gonocoxite. Epandrium broad and short, with two small elliptic patches of separated hair areas and one large nearly circular opening distad (Fig. 9). Sclerotized remainders of tergite and sternite 10 inside of epandrium almost quadrate. Hypandrium narrow (Figs. 7, 8), bare, conspicuously widened in middle. Epiproct small, hemicircular, hypoproct large, broad basally, tongue-shaped, both parts haired, epiproctal hairs in comparison with hypoproctal



Figs. 1-5. *Parajungiella bohdanecensis* sp. nov., ♂. 1 – head; 2 – caudal view of fold of eye; 3 – maxilla and maxillary palpus; 4 – wing (bc – basal cell, nl – neala); 5 – wing basis (bcn – basal costal node). Scales = 0.1 mm (Figs. 1, 3, 5); 0.05 mm (Fig. 2); 0.5 mm (Fig. 4).



Figs. 6-9. *Parajungiella bohdanecensis* sp. nov., ♂. 6 – lateral view of thoracic sclerites (ansut – anepisternal suture, ans – anepisternum, ht – haltere, kts – katepisternum, maa – mesothoracal allurement area, ptp – pteropleurite, spr – spiraculum, wgc – wing connection); 7 – dorsal view of aedeagal complex and gonopods (paratype, Vřesová); 8 – same, variability (paratype, Dolní Nivy); 9 – dorsal view of epandrium and surstyli. Scales = 0.1 mm.



Figs. 10-17. *Parajungiella bohdanecensis* sp. nov., ♂. 10 – basal antennomeres; 11 – middle antennomeres; 12 – apical antennomere; 13 – dorsal view of fore claw; 14 – dorsal view of gonocoxite and gonostyle; 15 – furca; 16 – lateral view of aedeagal complex; 17 – variability of sclerites of aedeagal complex (diagrammatic), paratypes (a-c: Lázně Bohdaneč, d: Svatava). Scales = 0.1 mm (Figs. 10, 12, 14, 16) and 0.05 mm (Figs. 11, 13, 15).

ones longer and more widely spaced. Surstyli cylindrical, straight (dorsal and lateral views), almost 1.5 times as long as epandrium. Number of retinaculi 15.

Female unknown.

Variability. The harpoon-shaped sclerites of aedeagal complex vary in shape and size (Figs. 17 a-d). Angle of the margin of the caudal sclerite to the inner side of aedeagal apodemal protuberance (luxation) 106-148°, difference in luxation of the left and right sclerite in the same specimen 4-27°.

Differential diagnosis. *Parajungiella bohdanecensis* sp. nov. is characterized by the combination of the following characters: sack of aedeagal complex with small lateral protuberances caudally and a pair of short harpoon-shaped, divergently luxated sclerites inside (Figs. 7, 8, 17 a-d). *Parajungiella consors* (Eaton, 1893) has the sack of aedeagal complex rather compact, without protuberances, and the harpoon-shaped sclerites inside are placed at a 180° angle to the aedeagal apodemal protuberance and without luxation (Fig. 18).

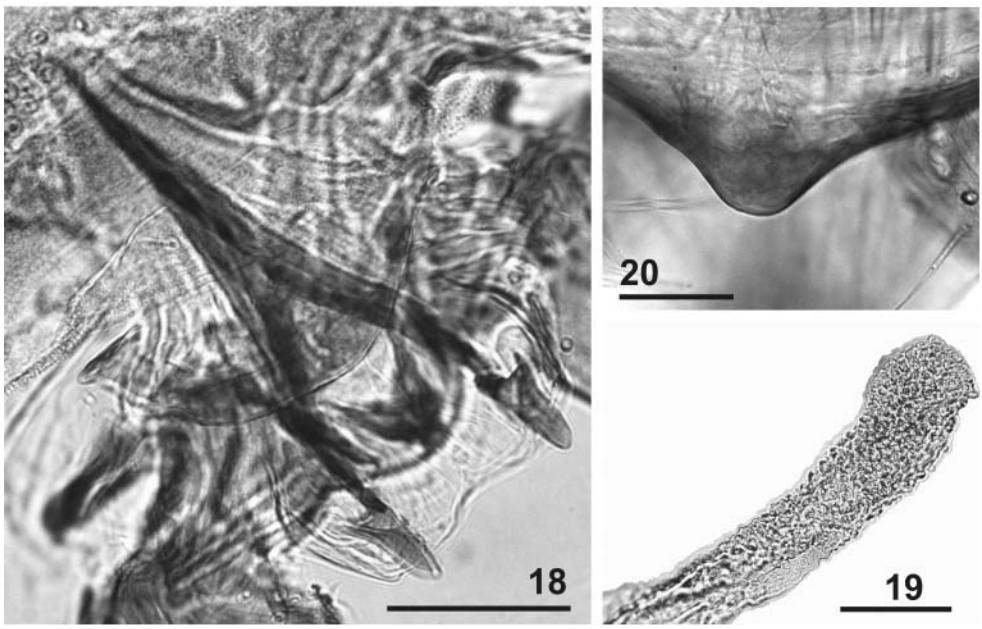
Etymology. The species is named after the type locality, Lázně Bohdaneč in eastern Bohemia.

Bionomics. Unknown. Adults were collected in a lowland area (220 m a.s.l.) near a drain with shore vegetation and large swamps in an alder wood (Fig. 52). Some specimens were collected in a coal-mining area in swampy biotopes at a foot of a dump with *Alnus*, *Phragmites*, *Scirpus*, and on inundated shores of a river (417 m a.s.l).
Distribution. Czech Republic, eastern and western Bohemia.
Comments on the generic classification. The systematic position of the genus *Parajungiella* and all nomenclatorial problems and intergeneric relationships in the Paramormiini were discussed in detail by Ježek (1983b, 1984, 1985a). Including the new species, the genus now comprises 10 species restricted to the Palaearctic Region.

Clytocerus (*Boreoclytocerus*) *splendidus* sp. nov.

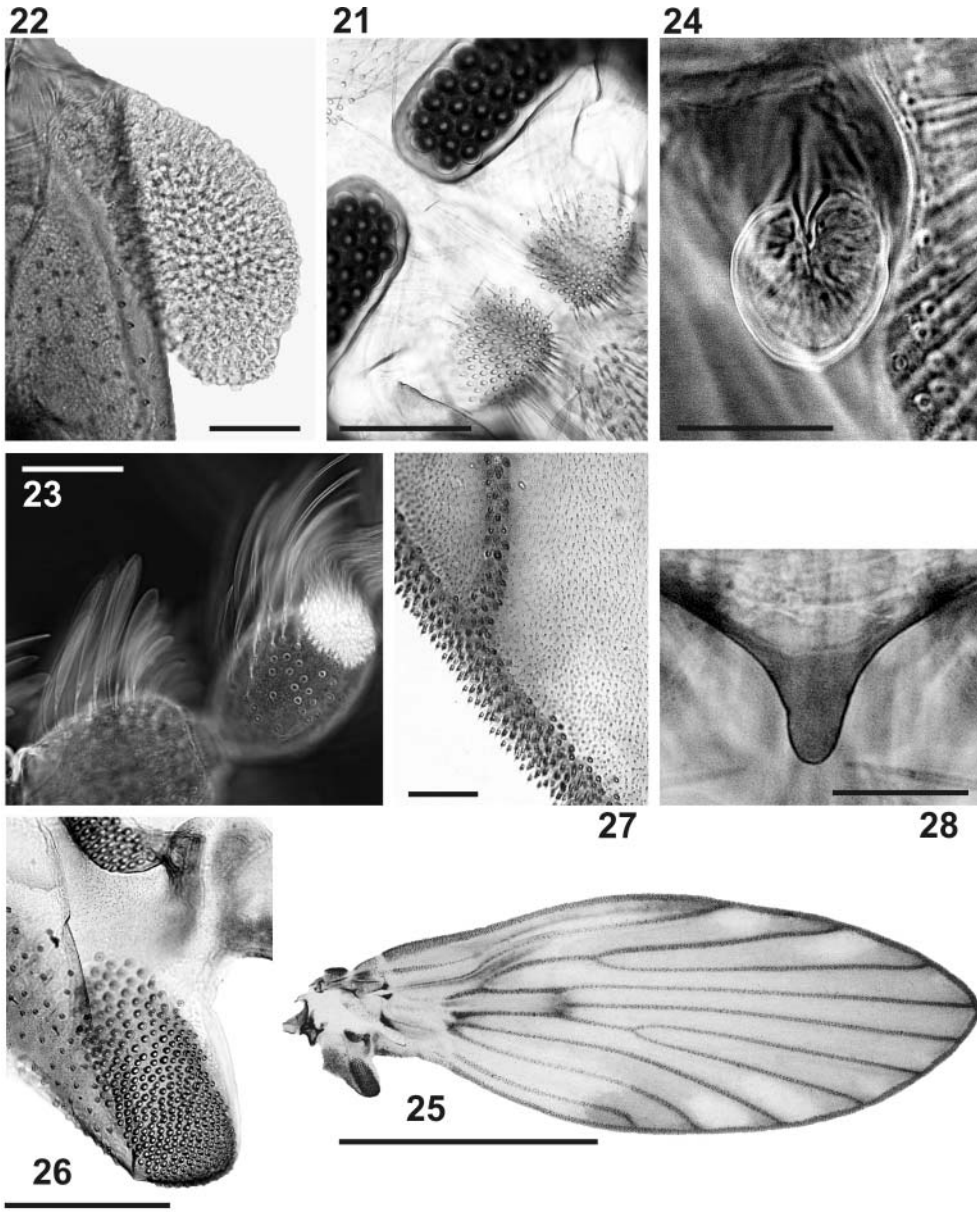
(Figs. 21-41)

Type locality. Czech Republic, eastern Bohemia, Orlické hory PLA, Čertův důl valley, Zdobnička env.
Type material. Holotype: ♂, **CZECH REPUBLIC:** Bohemia or., Orlické hory PLA, Čertův důl valley, Zdobnička env. (5764), Loc. No. 13, meadow and swamp near forest edge, 23.v.1994, J. Ježek leg. Vegetation. *Alnus*, *Picea*, *Anemone*, *Scirpus*, *Juncus*, *Myosotis*, *Urtica*, Apiaceae. Slide with dissected specimen, Cat. No. 34420, Inv. No. 15795 (NMPC). Paratypes: 24 ♂♂ (slides, NMPC). Same locality, Trčkov env. (5664), Velká louka NM meadow, Loc. No. 118 (Fig. 50), forest margin, marshes, small artificial shot-hole lakes, 25.v.1994, J. Ježek leg. Vegetation. *Picea* (solitary), *Fagus*, *Alnus*, *Equisetum*, *Caltha*, *Senecio*, *Myosotis*, *Ajuga*, *Orchis*, Musci. Slide with dissected specimen, Cat. No. 34421, Inv. No. 15796 (1 ♂). Mělčany near Dobruška (5762), Loc. No. 143, swamps, MT, 22.iv.-8.v.2002, P. Chvojka, J. Macek & J. Ježek leg. Slide with dissected specimen, Cat. No. 34422, Inv. No. 15797 (1 ♂). Between Pohoří and České Meziříčí (5762), Zbytka wildlife reserve, Loc. No. 145, a large complex of floodplains and fen meadows in the meander of the Zlatý potok brook, ca 260 m a.s.l., 15.vii.2002, J. Ježek leg. Habitat: rain-filled puddles on a forest drive with *Quercus*, *Fraxinus*, *Populus*, *Alnus* and *Cornus* trees around, undergrowth with *Rubus*, *Iris*, *Stachys*, *Leonurus*, *Lappa*, Apiaceae and Poaceae. Slide with dissected specimen, Cat. No. 34423, Inv. No. 15798 (1 ♂). Železné hory PLA, Barovice (6260), Barovka brook, ravine in forest, 3.v.2000, J. Ježek leg. Vegetation. *Alnus*, *Larix*, *Sorbus*, *Fagus*, *Nasturtium*, Pteropsida. Slide with dissected specimen, Cat. No. 34424, Inv. No. 15799 (1 ♂). Železné hory PLA, between Běstvina and Pařížov (6159), camp site, pond in forest, 9.ix.1998, J. Ježek leg. Vegetation. *Picea*, *Ulmus*, *Fagus*, *Carpinus*, *Sorbus*, *Nymphaea*, *Carex*, *Caltha*. Slide with dissected specimen, Cat. No. 34425, Inv. No. 15800 (1 ♂). Železné hory PLA, Práčov env. (6160), Slavická obora deer-park, Boušovka NM, pond in forest, 7.ix.1998, J. Ježek leg. Vegetation. *Alnus*, *Betula*, *Pinus*, *Sphagnum*, *Carex*, *Juncus*, *Scirpus*, Musci. Slide with dissected specimen, Cat. No. 34426, Inv. No. 15801 (1 ♂). Železné hory PLA, Rohozná env. (6160), Strádovka NM, MT, 18.vi.1998, F. Bárta leg. Slide with dissected specimen, Cat. No. 34427, Inv. No. 15802 (1 ♂). Železné hory PLA, Trhová Kamenice env. (6160), Zubří NR, MT, 5.viii.1996, F. Bárta leg. Slide with dissected specimen, Cat. No. 34428, Inv. No. 15803 (1 ♂). Bohemia occ., Sokolov coal-mining area, Kaceřov (5841), MT, 31.viii.2006, P. Chvojka, J. Macek & J. Ježek leg. Slide with dissected specimen, Cat. No. 34429, Inv. No. 15804 (1 ♂). Sokolov coal-mining area, Loket env. (5842), Lněný vrch hill 604.9 m a.s.l., small brook, valley, 4.v.1994, J. Ježek leg. Vegetation. *Salix*, *Betula*, *Caltha*, *Urtica*, *Nasturtium.* Slide with dissected specimen, Cat. No. 34430, Inv. No. 15805 (1 ♂). Sokolov coal-mining area, Lomnice env. (5741), Lomnický les forest (now completely clear-cut), pools near the forester's house, fallen trees, small and large water reservoirs, outflows, small streams and swamps, 3.v. and 7.vi.1995, J. Ježek leg. Vegetation. *Betula*, *Quercus*, *Pinus*, *Alnus*, *Salix*, *Sorbus*, *Rubus*, *Carex*, *Juncus*, *Scirpus*, *Urtica*, *Typha*, *Lychnis*, *Equisetum*, *Anemone*, Musci. Slides with dissected specimens, Cat. No. 34431-34432, Inv. No. 15806-15807 (2 ♂♂). Sokolov coal-mining area, Nová Role (5742), Černý potok brook, flocullated iron, MT, 2.viii.2005, P. Chvojka, J. Macek & J. Ježek leg. Slide with dissected specimen, Cat. No. 34433, Inv. No. 15808 (1 ♂). Sokolov coal-mining area, Krušné hory Mts., Dolní Nivy env. (5741), between Ovčí vrch hill (662.4 m a.s.l.) and Holý vrch hill (664.2 m a.s.l.), Pstruhový potok brook, mud wallow, 19.v.2004, J. Ježek leg. Vegetation. *Alnus*, *Acer*, *Picea*, *Rubus*, *Caltha*, *Nasturtium*, Apiaceae, Pteropsida. Slide with dissected specimen, Cat. No. 34434, Inv. No. 15809 (1 ♂). Bohemia mer., České Budějovice – Švábův hrádek, 428 m a.s.l. (7052), ET, dry locality, 10.vi.2003,



Figs. 18-20. 18 – *Parajungiella consors* (Eaton, 1893), ♂ (Praha – Suchdol), aedeagal complex. 19-20 – *Clytocerus* (*Boreoclytocerus*) *longicorniculatus* Krek, 1987, ♂ (České Budějovice, Švábův hrádek). 19 – corniculus; 20 – hypandrium. Scales = 0.05 mm.

J. Olejníček leg. Slide with dissected specimen, Cat. No. 34435, Inv. No. 15810 (1 ♂). Moravia bor., Jeseníky PLA, Rejvíz env. (5769), Dolní Údolí, pastures, brook, marshes, 15.ix.1994, J. Ježek leg. Vegetation. *Alnus*, *Frangula*, *Corylus*, *Petasites*, *Filipendula*, *Scirpus*, *Senecio*, *Aegopodium*, *Urtica.* Slide with dissected specimen, Cat. No. 34436, Inv. No. 15811 (1 ♂). Jeseníky PLA, Jeseník – Bukovice (5769), pond inlet, swamps, 21.ix.1998, J. Ježek leg. Vegetation. *Alnus*, *Salix*, *Frangula*, *Senecio*, *Scirpus*, *Carex*, *Urtica*, *Geum*, *Caltha*, Musci. Slide with dissected specimen, Cat. No. 34437, Inv. No. 15812 (1 ♂). Jeseníky PLA, Lipová Lázně env. (5768), between Bezný (684.6 m a.s.l.) and Javořík (772.1 m a.s.l.) hills, vicinity of Javořický potok brook, swamps in *Alnetum*, forest, 22.vii.1998, J. Ježek leg. Vegetation. *Picea*, *Mentha*, Pteropsida, Musci. Slide with dissected specimen, Cat. No. 34438, Inv. No. 15813 (1 ♂). Jeseníky PLA, Branná env., Nová Branná (5868), Hučava brook, forest mud wallow, 3.viii.1994, Ježek leg. Vegetation. *Picea*, *Corylus*, *Impatiens*, *Caltha*, *Urtica*, *Petasites*, *Aconitum*, *Senecio*, Pteropsida, Musci. Slide with dissected specimen, Cat. No. 34439, Inv. No. 15814 (1 ♂). Českomoravské mezihoří area (Moravian part), Osikov, environs of Kopřivná (5967), Ořešník hill (702.6 m a.s.l.), meadow, spring area, forest edge, 15.vii.1998, J. Ježek leg. Vegetation. *Picea*, *Alnus*, *Lysimachia*, *Mentha*, *Scirpus*, *Filipendula.* Slide with dissected specimen, Cat. No. 34440, Inv. No. 15815 (1 ♂). Moravia mer., Podyjí NP, Hnanice (7161), rill near the state border, fields, marshes, 9.vi.1998, J. Ježek leg. Vegetation. *Salix*, *Alnus*, *Sambucus*, *Rubus*, *Filipendula*, *Symphytum*, *Carex*, *Leonurus*, *Lysimachia*, *Mentha*. Slide with dissected specimen, Cat. No. 34441, Inv. No. 15816 (1 ♂). Podyjí NP, between Štítary and Šumná (7061), fields, rill, 23.ix.1995, J. Ježek leg. Vegetation. *Alnus*, *Sambucus*, *Betula*, *Urtica*, *Rumex*, *Trifolium*, *Artemisia*, *Stellaria*, Lamiaceae, Poaceae. Slide with dissected specimen, Cat. No. 34442, Inv. No. 15817 (1 ♂). Bílé Karpaty PLA, Valašské Klobouky (6874), small ponds near railway station, inlets, forest, 20.vi.2005, J. Ježek leg. Vegetation. *Fraxinus*, *Picea*, *Rubus*, *Impatiens*, *Caltha*, *Stachys*, *Polygonum*. Slides with dissected specimens, Cat. No. 34443-34444, Inv. No. 15818-15819 (2 ♂♂).



Figs. 21-28. *Clytocerus* (*Boreoclytocerus*) *splendidus* sp. nov., ♂. 21 – frontoclypeus; 22 – corniculus; 23 – pedicel and postpedicel; 24 – 'prothoracal' spiraculum (detail); 25 – wing; 26 – neala; 27 – wing membrane and veins in detail; 28 – hypandrium. Scales = 0.05 mm (Figs. 22-24, 28), 0.02 mm (Fig. 27), 0.1 mm (Fig. 26), 0.2 mm (Fig. 21), and 1 mm (Fig. 25).

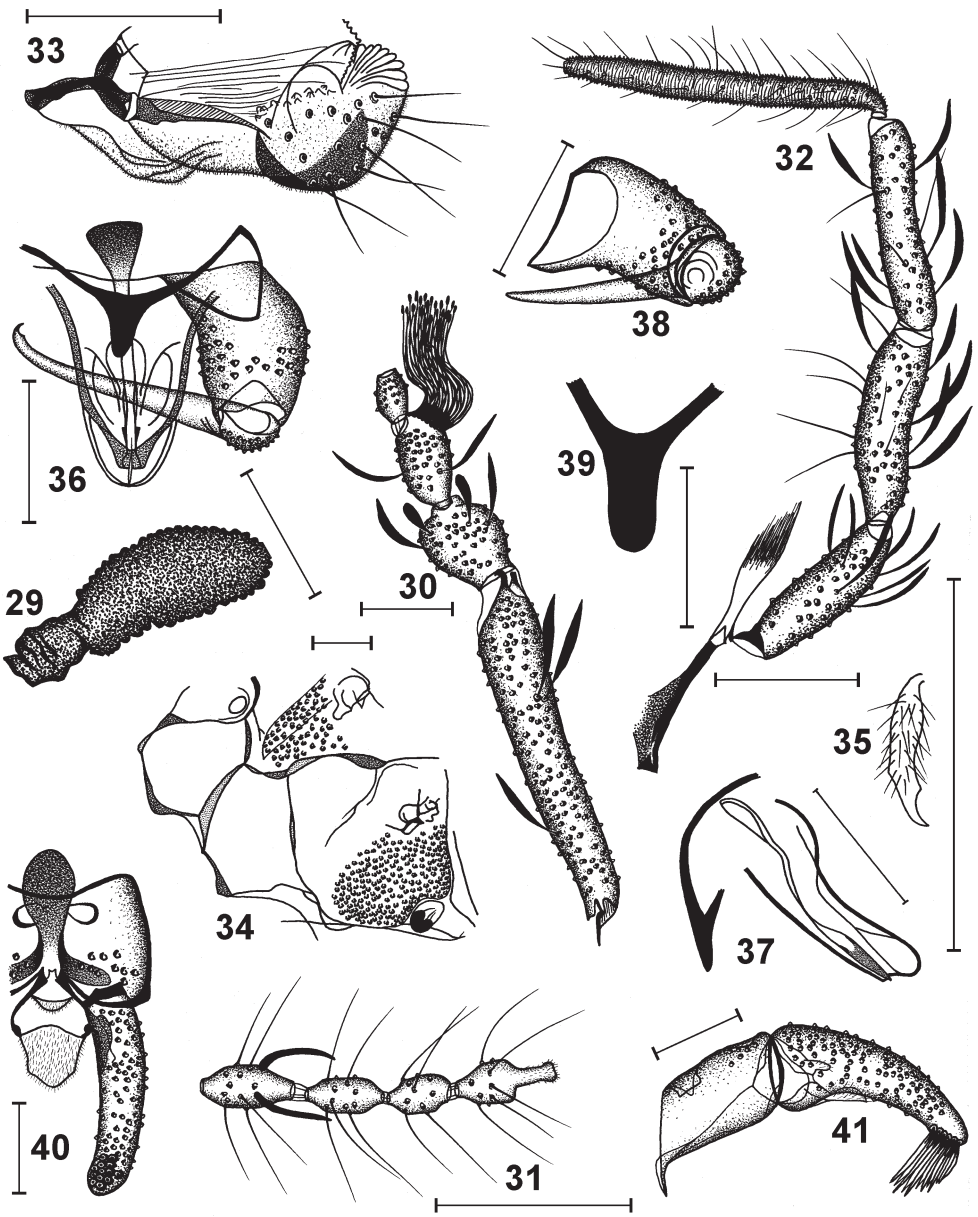
Description. Male. Head capsule as long as broad, vertex short, slim, acute, inflated at level of insertion of corniculae; the latter large, rather short and inflated distally. Eye bridges of four facet rows, narrowly separated by distance equal to two facet diameters. Ratio of distance of tangential points of apices of eyes to minimum width of frons and to facet diameter ca. 6 : 1 and 12 : 1, respectively. Frontoclypeus with two circular patches of hair pits (Fig. 21). Zone between eye-bridges without pits. Interocular suture absent. Scape approximately 4 times as long as pedicel, progressively broadening from narrow base to broad apical half; pedicel hardly pyriform (Figs. 23, 30), as long as postpedicel. Postpedicel (Fig. 23) shortly cylindrical, subapically with a tuft of numerous sinuous filaments with characteristic drop-shaped endings (Fig. 30). The following flagellomeres small, cask-shaped, last three ones inconspicuously reduced, apical flagellomere (i.e. antennomere 15) with a long terminal pestle-shaped digit, haired (Fig. 31). Ascoids paired, needle-shaped. Length ratios of maxillary palpomeres 1.0 : 1.0 : 1.1 : 1.7, palpomere 4 annulate (Fig. 32). Terminal lobe of labium bulbous, with many setae (Fig. 33). Cibarium ca. 1.6 times as long as epipharynx.

Thoracic sclerites as in Fig. 34. 'Prothoracal' spiraculum as in Fig. 24. Wings narrowly lancet-shaped, wing membrane with light-brown to brown infuscation as shown (Figs. 25-27), 2.1-2.6 mm (2.4 mm in holotype) long, radial and medial forks complete, medial fork hardly basal to level of tip of Cu, radial fork basal to medial, conspicuous discrete thickenings in some parts on almost all veins, only R_5 not strengthened. Basal costal nodes distinct, Sc uninterrupted, M_3 and M_4 attached basally at large distance to basis of Cu. Tip of R_4 placed slightly above rather rounded apex of wing. Medial wing angle 206° (BCD). Indices of wing AB : AC : AD = 4.6 : 4.0 : 4.1; BC : CD : BD = 1.0 : 1.3 : 2.2. Wing 2.7 times as long as wide; haltere 2.6 times as long as wide. Ratios of lengths of femora, tibiae and first tarsomeres: P_1= 1.9 : 2.2 : 1.0; P_2 = 2.1 : 2.7 : 1.2; P_3 = 2.1 : 3.1 : 1.2. Fore claws as in Fig. 35.

Basal apodeme of aedeagal complex (Fig. 36) with short narrow part caudally, expanding into spatula with truncate proximal margin. Genitalia with inner structures characteristic for the *ocellaris* species-complex (Figs. 36, 37). Gonocoxites (Figs. 36, 38) short, inflated laterally in a region covered densely with hair scars. Gonostyles elongate (1.5 times as long as gonocoxite), basal region small, compact, concavity inconspicuous, with outer side almost completely straight beyond patch of scars, blade tapered and slightly hooked distally. Epandrium (Figs. 40, 41) with two poor transversal fields of posterior insertions of hairs and a pair of small openings. Sclerotized remainders of tergite and sternite 10 inside of epandrium formed by two narrow lateral lobes diverging distad and expanding into short neck area proximally and spatula-shaped rounded free end. Hypandrium (Figs. 28, 36, 39) narrow, broadened at midline by a tongue-shaped protuberance (rather long and pointed, high isosceles triangle). Epiproct short and broad, with rounded distal margin; hypoproct large, broad, tongue-shaped, with narrow basis; both parts haired (Figs. 40, 41). Surstylus (Figs. 40, 41) stout proximally (lateral view), with ventral surface only slightly convex; about 8-14 retinacula, the longest one about third as long as surstylus.

Female unknown.

Variability. Length of coniculi variable (Figs. 22, 29). Second and third flagellomeres sometimes partially fused (slide Inv. No. 15799, left antenna only). Tongue-shaped protuberance of hypandrium long or extremely long, pointed or rounded but always narrow (Figs. 28, 36, 39).



Figs. 29-41. *Clytocerus* (*Boreoclytocerus*) *splendidus* sp. nov., ♂. 29 – corniculus (variability); 30 – basal antennomeres; 31 – apical antennomeres; 32 – maxilla and maxillary palpus; 33 – dorsal view of terminal lobe of labium; 34 – lateral view of thoracic sclerites; 35 – dorsal view of fore claw; 36 – dorsal view of aedeagal complex and gonopode; 37 – lateral view of aedeagal complex; 38 – lateral view of gonocoxite and gonostyle; 39 – hypandrium, variability; 40 – dorsal view of epandrium and surstylus; 41 – same, lateral view. Scales = 0.1 mm (Figs. 29-38, 40-41) and 0.05 mm (Fig. 39).

Differential diagnosis. The new species differs from *Clytocerus* (*Boreoclytocerus*) *longicorniculatus* Krek, 1987, mainly by rather short corniculi (Figs. 22, 29) that are not reaching from the vertex to the lateral fold of eyes, a short basal apodeme with a cut proximal margin (Fig. 36), a rather pointed tongue-shaped protuberance of the hypandrium (Figs. 28, 36, 39) and a broad epiproct. *Clytocerus longicorniculatus* has long corniculi (Fig. 19) reaching from the vertex to the lateral fold of eyes, the basal apodeme prolonged and rounded proximally, the hypandrium with a low and rather rounded equilateral triangular protuberance of the hypandrium (Fig. 20), and a narrow epiproct.

Etymology. From the Latin splendidus, an adjective meaning splendid. This member of the *ocellaris* species complex has a conspicuous and eye-pleasing shape of the hypandrial tubercle.

Bionomics. Unknown. Registered sporadically from lowlands to hills (200-800 m a.s.l.). It was collected by sweeping in a variety of habitats, including a forest valley and ravine with fallen trees, marshes, shothole pools and large water reservoirs, a large complex of floodplains and fen meadows, a meandering brook with solitary trees, rain-filled puddles on a forest drive, as well as in a deer-park, camping and coal-mining area, rills, ponds in forest, mud wallows, pastures, fields, and a red spring area (floculated iron). Dominant trees at these habitats included *Alnus*, *Picea*, *Fagus*, *Quercus*, *Fraxinus*, *Populus*, *Cornus*, *Larix*, *Sorbus*, *Ulmus*, *Carpinus*, *Betula*, *Pinus*, *Salix*, *Acer*, *Frangula*, *Corylus*, *Sambucus*; the undergrowth at wet localities was mainly composed by *Aconitum*, *Caltha*, *Carex*, *Equisetum*, *Filipendula*, *Iris*, *Juncus*, *Leonurus*, *Lychnis*, *Lysimachia*, *Mentha*, *Myosotis*, *Nasturtium*, *Nymphaea*, *Orchis*, *Petasites*, *Polygonum*, *Scirpus*, *Sphagnum*, *Typha*, Pteropsida and Musci, sometimes mixed with other plants such as *Rubus*, *Aegopodium*, *Ajuga*, *Anemone*, *Artemisia*, *Geum*, *Impatiens*, *Lappa*, *Rumex*, *Senecio*, *Stachys*, *Stellaria*, *Symphytum*, *Trifolium*, *Urtica*, Apiaceae, Lamiaceae, and Poaceae. The species was also caught in a Malaise trap as well as an emergence trap. Occurrence of adults: May to September.

Distribution. Czech Republic, Bohemia and Moravia.

Comments on the generic classification. Intergeneric relationships of the genus *Clytocerus* Eaton, 1904, in the tribe Pericomini were discussed and indicated partially by Vaillant (1976). Including the new species, the genus now comprises 34 species from Holarctic and Afrotropical regions. Enderlein (1935: 247) designated *Pericoma dalii* Eaton, 1893, as the type species of *Clytocerus* Eaton, 1904, which was accepted by Duckhouse (1975). However, Enderlein (1935) overlooked that Tonnoir (1920: 137) established *Clytocerus* based on the single species *Clytocerus africanus* Tonnoir, 1920, which is therefore the type species by monotypy. Duckhouse (1978) noticed his earlier mistake and synonymized the African subgenus *Notoclytocerus* Duckhouse, 1975 (type species *Clytocerus tauricornis* Duckhouse, 1975: 428) with *Clytocerus* s. str. For the northern species of *Clytocerus*, he proposed a new subgenus *Boreoclytocerus* (Duckhouse 1978: 307) with *C. ocellaris* (Meigen, 1804) as the type species. This view is generally accepted by almost all specialists. However, Withers (2005) regarded *Boreoclytocerus* as a separate genus because of the differences between the structures of male genitalia in *Clytocerus* s. str. and *Boreoclytocerus*. Duckhouse (1975) and Wagner (1990) quoted an additional synonym of *Clytocerus*: *Synseodais* Enderlein, 1937 (type species *Synseodais flavitarsis* Enderlein, 1937: 92, by original designation). Finally, the systematic position of *Phalaenula* Meigen, 1800 (type species *Trichoptera ocellaris* Meigen,

1804, subsequently designated by Coquillett (1910: 587)) was discussed by Quate (1955). The work of Meigen (1800) was suppressed by the ICZN (1963) and discussed by Sabrosky (1999, with references in Thompson et al. 1999).

Note. Comparative material of *Clytocerus longicorniculatus* Krek, 1987. CZECH REPUBLIC: Bohemia mer., České Budějovice – Švábův hrádek (7052), 428 m a.s.l., emergence trap, 16.v.2002 (3 ♂♂), 11.vii.2002 (2 ♂♂) and 30.ix.2002 (1 ♂). All J. Olejníček leg. Slides with dissected specimens, Cat. No. 34445-34450, Inv. No. 15820-15825 (altogether six specimens). Known only from Bosnia and Herzegovina (Krek 1987); new to the Czech Republic.

Faunistics

List of localities

(Fig. 43)

1. Amerika (5865) near Klášterec nad Orlicí, Orlické hory PLA; small forest brook.
2. Bartošovice v Orlických horách (5865), Rašeliniště pod Předním vrchem peatbog, Orlické hory PLA; wet meadows, large shaded spring area, swamps, rills, ditches.
3. Bartošovice v Orlických horách (5865), Ostrov, Divoká Orlice river, Orlické hory PLA; forest slope helocrene (wallow).
4. Bedřichovka (5664) near Orlické Záhoří, Orlické hory PLA; wood margin, meadows, forest spring area, swamps, helocrene, brook.
5. Běleč nad Orlicí (NW) (5761), Na Haltýři; oxbow.
6. Boroviny (5763) near Brocná, environs of Solnice; brook.
7. Bukačka NNR (5664), environs of Šerlich Mt. (1025 m a.s.l.), Orlické hory PLA; upper and down meadows (Figs. 46 and 47).
8. Bystřec (5965) near Jablonné nad Orlicí; meadow, forest, stream.
9. Cotkytle – V dole (6066), environs of Štíty; marshes, brook.
10. Černá Voda (5764) between Orlické Záhoří and Nová Ves, hill 830 m a.s.l., Orlické hory PLA; forest, rills, swamps.
11. Černá Voda – Na kříži (5764) between Orlické Záhoří and Nová Ves, Orlické hory PLA; meadows, brook.
12. Černý důl valley (5765), environs of Neratov, Orlické hory PLA; forest, spring area, small brook.
13. Čertův důl valley (5764), environs of Zdobnička, Orlické hory PLA; forest edge, meadow, spring area, swamp.
14. Číhalka – Vápenka (5664), environs of Olešnice v Orlických horách, Orlické hory PLA; marshes.
15. Deštné v Orlických horách (5664), Orlické hory PLA; wet meadows.
16. Deštné v Orlických horách (5664), Bělá brook, Orlické hory PLA; forest and meadows, rotting hay.
17. Deštné v Orlických horách (5664), Satelit hostel env., Orlické hory PLA; swamps, brook.

18. Deštné v Orlických horách (5664), hill 743.8 m a.s.l., Orlické hory PLA; small wood, wet meadows, rills, ditch.
19. Deštné v Orlických horách (5763), at town museum, Orlické hory PLA; forest slope spring area, meadow, outflow of well, rill and gutter.
20. Deštné v Orlických horách (5664), north of the town, Orlické hory PLA; wood.
21. Deštné v Orlických horách (5663), Panorama hotel env., Orlické hory PLA; forest, spring area, rills.
22. Dobrá Voda (5964), environs of Ústí nad Orlicí; outflow of small pond.
23. Dolní Čermná (6065), settlement, 394 m a.s.l., Čermná brook; alluvial meadows.
24. Dolní Čermná (6065), Blahotínec, 394 m a.s.l., Čermná brook, Orlice Nature Park; floodplain, overhanging boughs baited with coloured sticky traps (approximately 3 m above water surface), light trap and sweeping.
25. Dříš (5763) near Deštné v Orlických horách, Orlické hory PLA; forest, spring area.
26. Hamernice (5864), environs of Pěčín, Soutok, Orlické hory PLA; river, trickles, camping ground.
27. Hamry (5663) near Olešnice v Orlických horách, Orlické hory PLA; forest, brook.
28. Hanička (5764) near Panské Pole, Orlické hory PLA; peaty meadow, gutters.
29. Helvíkovice (5864) near Žamberk, 398 m a.s.l.; irrigation drain.
30. Hlinné (5763) between Dobré and Skuhrov nad Bělou; meadows, swamps, brook.
31. Between Hlinné and Dobré (5763); forest ravine, swamps, brook.
32. Homole Mt. (1000 m a.s.l.) (5764), W of Kunštát, Orlické hory PLA; forest spring area.
33. Horní Rokytnice (5864), environs of Rokytnice v Orlických horách, Orlické hory PLA; forest spring area, small brook.
34. Between Horní Rokytnice and Anenský vrch hill (991 m a.s.l.) (5764), Orlické hory PLA; spring of a brook, forest, meadow.
35. Horní Studénky (6066) near Štíty, Sychrov pond; meadows.
36. Hradisko (5864), environs of Slatina nad Zdobnicí; forest opening, small meadow, marshes, brook.
37. Jamné (5965) near Jablonné nad Orlicí; forest, brook.
38. Julinčino Údolí (5864), environs of Rokytnice v Orlických horách, Říčka brook, Orlické hory PLA; forest, spring area, crib, a heap of *Aesculus* fruits, litter.
39. Kačerov (5764), Liberský potok brook, 625-640 m a.s.l., Orlické hory PLA; marshes.
40. Kačerov (5764), Orlické hory PLA; ponds, outflows, fields.
41. Kačerov (5764), Orlické hory PLA; settlement, swamps, small brook.
42. Rašeliniště Kačerov NR peatbog (5764), Orlické hory PLA; trees, saplings, shrubs, grasses and mosses (Fig. 48).
43. Kamenec (5764) between Luisino Údolí and Zdobnice, Orlické hory PLA; forest brook, swamps.
44. Kamenec (5764) between Luisino Údolí and Zdobnice, Strážný hill (863 m a.s.l.), Orlické hory PLA; uranium radioactive dump, forest spring area, swamps, small brook.

45. Karlův vrch hill – Lubný (956 m a.s.l.) (5764), environs of Luisino Údolí, Zdobnice river, Orlické hory PLA; shoreline vegetation.
46. Klášterec nad Orlicí (6067); forest spring area, pool and brook.
47. Klečkov (ruin of the castle) (5763), Poříčí hill (657 m a.s.l.), Orlické hory PLA; forest windbreaks, vandalised trickle system, swamps.
48. NE of Komáří vrch hill (992 m a.s.l.) (5764) between Nová Ves and Říčky, hill 770 m a.s.l., Orlické hory PLA; forest spring area, small brooks.
49. Kout (5663) near Rovenské Šediviny, Orlické hory PLA; forest margin, spring area, brook.
50. Kouty (5764) near Říčky, Orlické hory PLA; forest slope spring area.
51. Kovárna hostel env. (5764) near Rampuše, Orlické hory PLA; forest margin, small brook, litter.
52. Kunštát (5764) near Orlické Záhoří, Orlické hory PLA; forest margin, brook, swamps.
53. 1 km NNE of Kunštátská kaple chapel (5764), Orlické hory PLA; forest glade, spring area, small brook, deer-stand.
54. U Kunštátské kaple NM (5764), Orlické hory PLA; forest spring area, small brook, deer-stand.
55. Between Kunštátská kaple chapel and Tetřevec Mt. (1043 m a.s.l.) (5764), Orlické hory PLA; small brook.
56. 2 km NE of Kunštátská kaple chapel (5764), Orlické hory PLA; forest, spring area.
57. Between Letohrad and Verměřovice (5965); forest ravine, small brook, swamp.
58. Litice nad Orlicí (5863), Liščí doly valley; forest, swamp, wallows.
59. Between Luisino Údolí and Velký Uhřínov (5764), spring of Kněžna stream near a hill at 837.3 m a.s.l., Orlické hory PLA.
60. Luisino Údolí (5764), environs of Deštné v Orlických horách, Orlické hory PLA; forest, marshes.
61. Malý Uhřínov (5763); forest ravine, clear-cut places, small brook, swamp.
62. Mezivrší (5764), environs of Říčky, Orlické hory PLA; forest glade (opening), spring area, stream.
63. Mladkov (5865), radioactive spring of Princ Rostislav; hilly landscape, forest.
64. Between Mladkov and Lichkov (5865); pond outflow.
65. Mlýnický Dvůr (5966) between Červená Voda and Štíty; small forest, meadows, marshes, flocullated iron.
66. Mnichová (5763), environs of Jedlová v Orlických horách, Orlické hory PLA; small pond in forest, slope spring area.
67. Mýto (5763), environs of Mnichová, Orlické hory PLA; meadows, spring area.
68. Nebeská Rybná (57-5864), environs of Rokytnice v Orlických horách, Orlické hory PLA; pastures, meadows, spring area, wallows, small brook.
69. Nepomuky (6065), environs of Lanškroun; forest, rocky wall with hygropetric spots.
70. Neratov (5765), Orlické hory PLA; seasonal stables, ditch, trench.
71. Neratov (5765), Divoká Orlice river, Orlické hory PLA; collapsed stone bridge.

72. Nová Ves (5765), environs of Orlické Záhoří, Divoká Orlice river meander, Orlické hory PLA; rocky wall with seepage water, gravel and pebbles.
73. Nový Dvůr (5864) near Rokytnice v Orlických horách, Orlické hory PLA; fields, pastures, brook.
74. Olešnice v Orlických horách (5663), Orlické hory PLA; pastures, small brook, spring area.
75. Olešnice v Orlických horách (5664), Číhalka hostel env., Orlické hory PLA; meadows, spring area, brook.
76. Olešnice v Orlických horách (5663), Kutl near Kostelní vrch hill (635 m a.s.l.), Orlické hory PLA; brook along the state border.
77. Olešnice v Orlických horách (5663), Panský vrch hill (782 m a.s.l.) – Pod Panským vrchem, Orlické hory PLA; slope spring area, alder swamp, brook.
78. Olešnice v Orlických horách (5663), Polish border, Orlické hory PLA; alder carr, swamp.
79. Olešnice v Orlických horách (5663), Ruské údolí valley, Orlické hory PLA; brook, swamps.
80. Olešnice v Orlických horách (5663), sawmill, Orlické hory PLA; pastures, spring areas, small brooks, swampy soil.
81. Opatov (6164), environs of Česká Třebová, Černý rybník pond; outflow.
82. Opatovec (6164), environs of Česká Třebová, Sychrovec pond; shoreline vegetation.
83. Orlické Záhoří (5764), Židovský kout, Orlické hory PLA; forest, boggy area, small streams.
84. Ošerov (5663) near Deštné v Orlických horách, Orlické hory PLA; wet meadows, brook.
85. Pádolí (hunting lodge) (5764) near Luisino Údolí, Orlické hory PLA; forest, swamp, small brook.
86. Pastviny (5865) near Klášterec nad Orlicí; forest brook.
87. Between Pěčín and Rokytnice v Orlických horách (5864), Suchá brook; fields.
88. Peklo (5863) near Vamberk, Zdobnice river; vertical bank with unmodified natural berms, overhanging boughs.
89. Petrovičky (5865) between České Petrovice and Mladkov; sloping meadow, small brook.
90. Pičberk (5763), environs of Skuhrov nad Bělou, left tributary of Bělá brook, 420-500 m a.s.l.; shore vegetation.
91. Plasnice (5663), environs of Sedloňov, Orlické hory PLA; meadows, spring area, small brook.
92. Počátky (5967) between Hanušovice and Podlesí, Raškovská bouda hostel (801.2 m a.s.l.); forest margin, spring area.
93. Podolí (5764), environs of Uhřínov, Orlické hory PLA; small brooks near a wooden cross.
94. Rokytnice v Orlických horách (5864), Polův kopec hill (657 m a.s.l.); forest, brook.
95. Rokytnice v Orlických horách (5864), U buku, Orlické hory PLA; fields, meadows, brook.

96. Ruské údolí valley (5663) between Olešnice v Orlických horách and Vrchmezí Mt. (1084.4 m a.s.l.), 800 m a.s.l., Orlické hory PLA; forest spring area, swamps, brook.
97. Říčka brook between Julinčino Údolí and Říčky (5864), Orlické hory PLA; *Alnetum*.
98. Říčka brook near Strašidelný mlýn mill (5764), environs of Říčky, Orlické hory PLA; forest, spring area.
99. Sedloňov (5663), Orlické hory PLA; settlement, 650 m a.s.l., helocrene area, brook.
100. Sedloňov – Polom (5663), Orlické hory PLA; forester's house, range land, helocrene area, small stocked pond.
101. Sedloňovský vrch Mt. (1050 m a.s.l.) (5664), environs of Sedloňov, Orlické hory PLA; forest.
102. Semanín (6164), environs of Česká Třebová, Mušlový rybník pond, 427 m a.s.l.; outlet, marshes.
103. Sopotnice (5964), environs of Potštejn; 345 m a.s.l., fields, marshes, trickles, gutters.
104. Souvlastní (5764), environs of Nebeská Rybná, Orlické hory PLA; forest, wet meadow.
105. Staré Hutě (5764) between Svatý Matouš church (758.9 m a.s.l.) and Luisino Údolí, Orlické hory PLA; spring area, brook, *Alnetum*.
106. Stěnka hill (731 m a.s.l.) (5663) between Olešnice v Orlických horách and Sedloňov, Orlické hory PLA; pastures, spring in a ravine.
107. Svatý Matouš church (758.9 m a.s.l.) (5764) between Jedlová v Orlických horách and Staré Hutě, Orlické hory PLA; forest margin, spring area, swamp, small brook.
108. Svinecký Dvůr (5763) near Svinná, environs of Skuhrov nad Bělou; cowshed, eutrophic village pond.
109. Šajtava (5764), NW of Zdobnice, Orlické hory PLA; forest, swamp, small brooks.
110. Šerlich Mt. (1025 m a.s.l.) (5664), Orlické hory PLA; spring area, well.
111. Šerlišské louky meadows (5664), environs of Šerlich Mt. (1025 m a.s.l.), Orlické hory PLA; pool.
112. Šerlišský Mlýn hostel env. (5664) near Šerlich Mt. (1025 m a.s.l.), Orlické hory PLA; outlet of wastewater, forest brook.
113. Vicinity of Šerlišský mlýn mill (5664) near Šerlich Mt. (1025 m a.s.l.), Orlické hory PLA; forest brook.
114. Tisovec (northern forest slopes) (5764), environs of Velký Uhřínov, Huťský potok brook, Orlické hory PLA; forest, swamp.
115. Trčkov (5664), Divoká Orlice river, 705 m a.s.l., Orlické hory PLA; bankface vegetation.
116. Trčkov env. (5664), Hraniční louka meadow, Orlické hory PLA; border stone number 119/8.
117. Trčkov env. (5664), Trčkovská louka meadow, Orlické hory PLA; sheepfarm manure, small garden, pasture spring.
118. Trčkov env. (5664), Velká louka NM meadow, Orlické hory PLA; forest margin, marshes, small artificial shot hole lakes (Fig. 50).
119. Trčkov NNR (5664), Orlické hory PLA; beech-fir wood (Fig. 49), helocrene area, windthrow calamity.

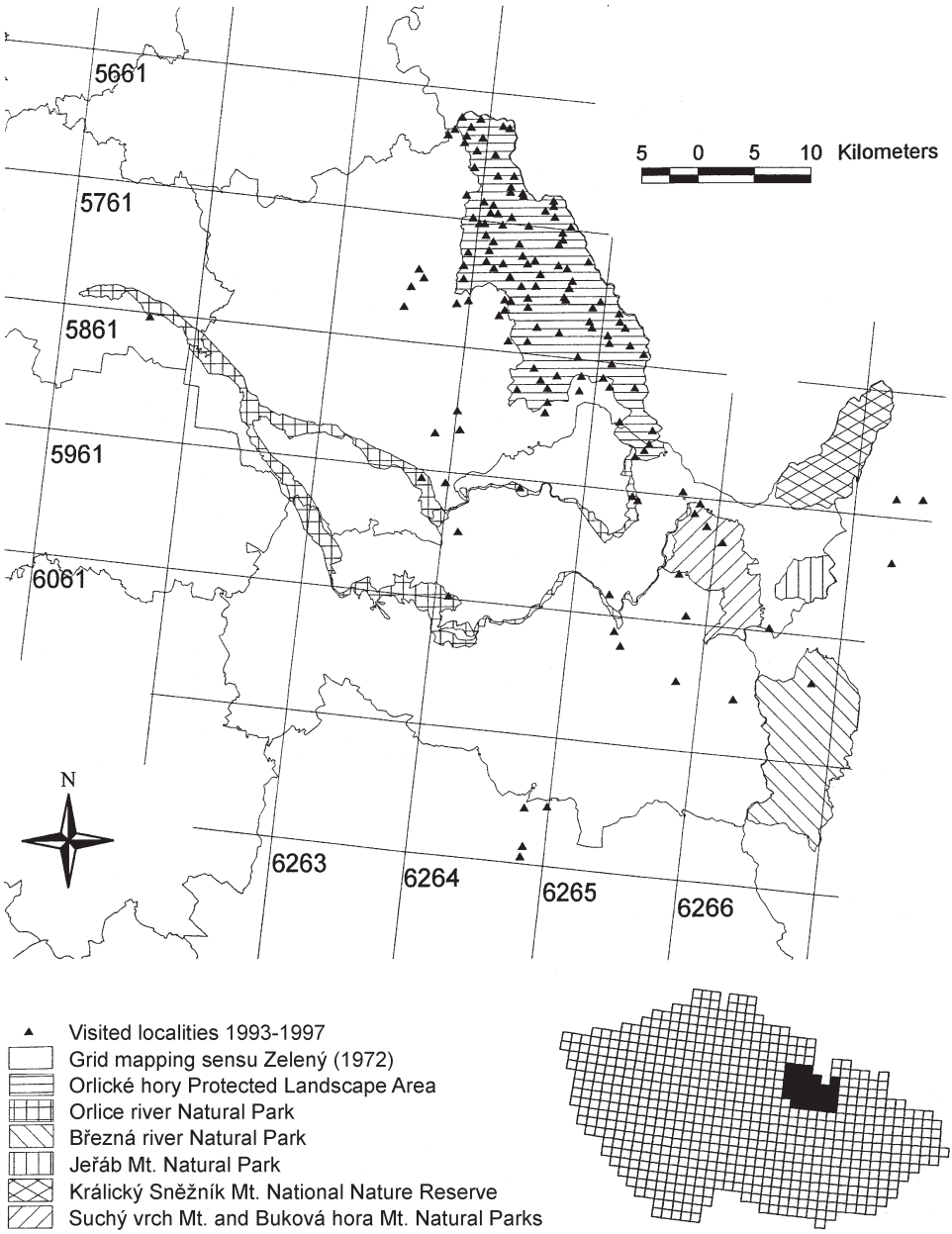


Fig. 42. Map of the Orlické hory PLA and adjacent protected areas (Czech Republic) with sampling sites.

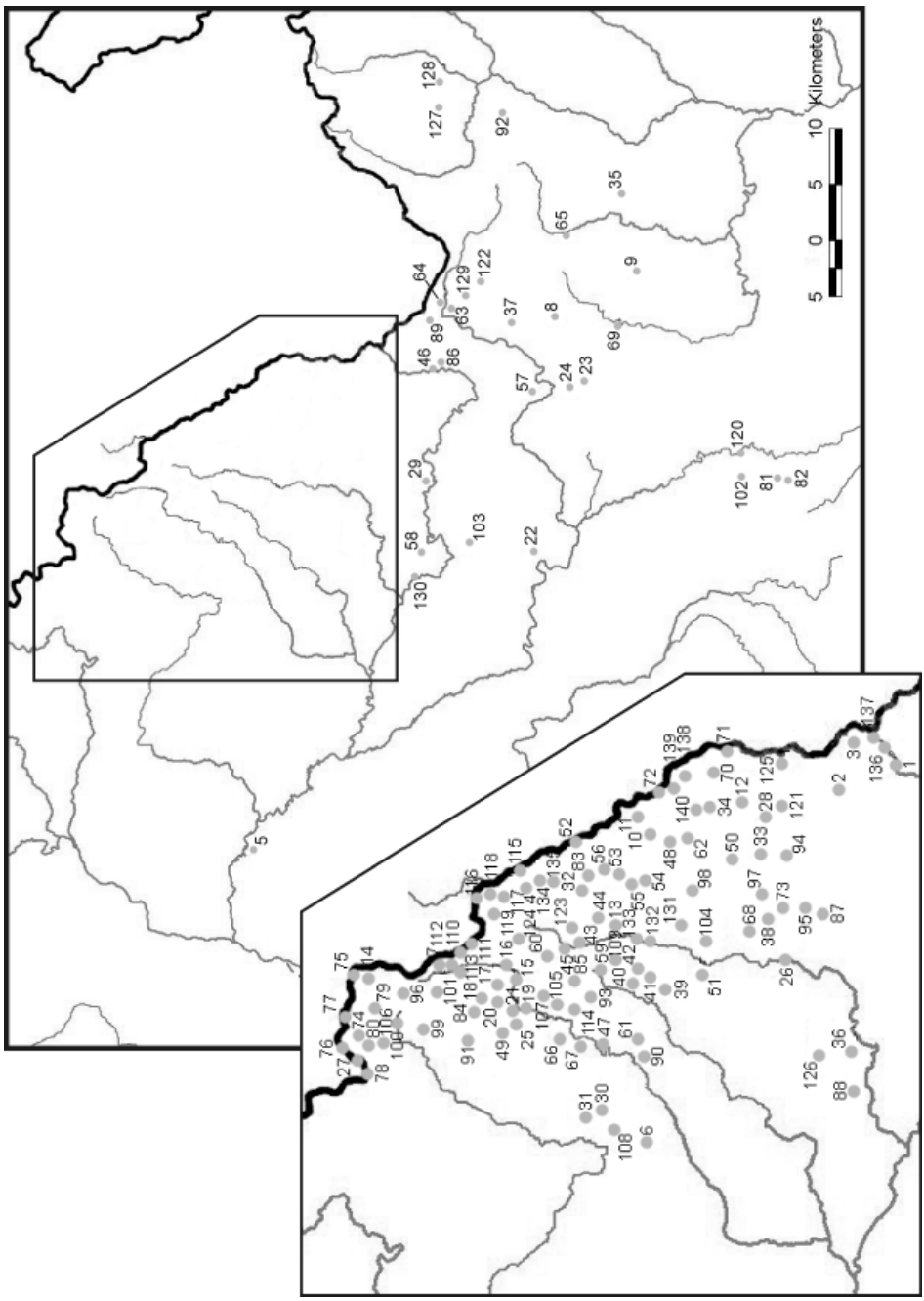


Fig. 43. Map of the Orlické hory Mts. (including adjacent regions) with localities 1-140 (see text for details).

120. Třebovice (6164-65), environs of Česká Třebová, Hvězda pond, 415 m a.s.l.; boggy area, marshes.
121. Údolíčko (5865), NW of Bartošovice v Orlických horách, Orlické hory PLA; wet meadows, swamps.
122. Uhlířský důl valley (5965-66) near Bouda stronghold between Těchonín and Dolní Bořikovice; swamps, stony debris, small brooks.
123. Vápenný vrch hill (953.3 m a.s.l.) (5764), SE of Luisino Údolí, Orlické hory PLA; forest, spring area, small brook.
124. Velká Deštná Mt. (1115 m a.s.l.) (5664), Orlické hory PLA; dwarf mountain pine growth, pole forest, small brook.
125. Vrchní Orlice (5865), environs of Bartošovice v Orlických horách, Orlické hory PLA; valley, meadows and pastures, spring area, churchyard with collapsed walls, weekend cottages.
126. Vršál (5863) near Jahodov, environs of Rychnov nad Kněžnou; forest, swamp.
127. Vysoká (5867), NW of Hanušovice; village brook.
128. Vysoké Žibřidovice (5867), N of Hanušovice; settlement, swamps, small brooks, litter, *Alnetum*.
129. Vysoký Kámen hill (842.9 m a.s.l.) (5965), SE of Mladkov; forest, brook, swamp.
130. Záměl (5863), NW of Potštejn; forest, inlet of a stocked pond, brook, *Alnetum*.
131. Zdobnice (5764), spring area 2 km SE of the village, Orlické hory PLA; pastures, cattle enclosures, brook.
132. Zdobnice (5764), Zdobnice river, 450 m a.s.l., Orlické hory PLA; settlement, marshes, spring area, rocky wall with seepage water.
133. Zdobnička (5764) near Zdobnice, Orlické hory PLA; forest, stream.
134. Zelenka (5764) between Bedřichovka and Jadrná, Orlické hory PLA; forest, cottages near road, small brook, swamps.
135. Zelenka (5764), Louka u Čertova mlýna NE of Koruna Mt. (1099 m a.s.l.), Orlické hory PLA; forest slope swamp.
136. Zemská brána (5865) between České Petrovice and Bartošovice v Orlických horách, Divoká Orlice river, Ledříčkova skála rock, Orlické hory PLA; shore vegetation (Fig. 51).
137. Zemská brána (5865) between České Petrovice and Bartošovice v Orlických horách, Divoká Orlice river, Pašerácká lávka footbridge, Orlické hory PLA; forest, swamp, overhanging boughs.
138. Zvonkové údolí valley (5765) between Nová Ves and Podlesí, Kuní vrch hill (728 m a.s.l.), Orlické hory PLA; forest, marshes, streams, deer-stand, feeding rack.
139. Zvonkové údolí valley (5765) between Nová Ves and Podlesí, Orlické hory PLA; forest opening, small wet meadow, stream, mire, deer-stand and crib.
140. Zvonkové údolí valley (5764) between Nová Ves and Podlesí, little chapel near hill 893.5 m a.s.l., Orlické hory PLA; forest, small meadow, spring, swamp, stream.

List of species

Sycorax bicornua Krek, 1970

Unpublished record. Nepomuky [69], ♂, 12.vii.1981, J.
Vegetation. 60, 71.

European species, critically endangered, rare; for more information see Ježek (1996, 1999).

Sycorax silacea Curtis, 1839

Unpublished records. Deštné v Orlických horách, at town museum [19], ♂, 22.v.1994, J; Rašeliniště Kačerov NR peatbog [42], ♂, 26.v.-13.vi.1994, H, YPT; Olešnice v Orlických horách, Panský vrch hill [77], ♂, 24.v.-9.vi.1994, H, YPT; Trčkov NNR [119], 3 ♂♂, 26.v.-9.vi. and 16.-30.vi.1994, H, H + V, MT and YPT.
Vegetation. 8, 30, 33-34, 46, 62, 72, 76, 78, 89, 96; 110-111, 113, 121, 124.

European species, locally common; for more information see Ježek (1996, 1999).

Sycorax tonnoiri Jung, 1954

Unpublished records. Nepomuky [69], ♂, 12.vii.1981, J; Orlické Záhoří, Židovský kout [83], ♂, 1.vii.1994, J; Trčkov NNR [119], ♂, 26.v.-9.vi.1994, H, YPT.
Vegetation. 46, 60, 65, 67, 71-72, 76, 78, 80, 84, 88, 98; 110, 121.

European species, critically endangered; for more information on its distribution see Ježek (2004b; Slovenia was omitted during the printing of that paper – see Appendix).

Jungiella (*Jungiella*) *valachica* (Vaillant, 1963)

Unpublished record. Olešnice v Orlických horách, sawmil [80], ♂, 22.vi.1995, J.
Vegetation. 3, 88, 98; 113-114, 119, 123-124.

European species, locally common; for more information on its distribution see Ježek (2004b).

Lepiseodina rothschildi (Eaton, 1912)

Published record. Ježek (2004a): Trčkov NNR.
Vegetation. 44, 46, 66, 72, 76, 78, 80, 86, 88, 98, 102; 110, 113-114, 117, 121.

European species, rare; for its distribution see Ježek (2004a); conservation status not assessed (Ježek 2005).

Parajungiella bohdanecensis sp. nov.

Central-European species (?). Conservation status not assessed. For the list of localities see the taxonomic part.

Parajungiella consors (Eaton, 1893)

Unpublished record. Rašeliniště Kačerov NR peatbog [42], ♂, 18.-26.v.1994, H + J, MT.
Vegetation. 8, 30, 33, 62; 113.

European species, not very common; for more information on its distribution see Wagner (1990, 2007).

Parajungiella ellisi (Withers, 1987)

Published record. Ježek (1996): Olešnice v Orlických horách, 1995.
Unpublished records. Běleč nad Orlicí, Na Haltýři [5], ♂, 26.v.1995, Mo; Olešnice v Orlických horách [74], ♂, 26.vi.1996, J.
Vegetation. 3, 14-15, 17, 32, 39, 48, 56, 71, 86; 113, 124.

European and West-Siberian species, rare, critically endangered; for its distribution see Ježek (2003).

Parajungiella longicornis (Tonnoir, 1919)

Unpublished records. Běleč nad Orlicí, Na Haltýři [5], ♂, 26.v.1995, Mo; Dolní Čermná, Orlice Nature Park [24], ♂, 7.vii.1981, Je; Rašeliniště Kačerov NR peatbog [42], ♂, 26.v.-13.vi.1994, H, MT; Neratov, Divoká Orlice river, bridge [71], ♂, 21.vi.1995, J; Olešnice v Orlických horách, sawmill [80], 2 ♂♂, 22.vi.1995 and 26.vi.1996, J.
Vegetation. 1, 3, 8, 14-15, 17, 23, 25, 29-30, 32-34, 39, 48, 56, 62, 71, 81, 86, 88, 92, 98; 111, 113-114, 119, 121, 123-124.

European and West-Siberian species, very common; for its distribution see Ježek (2004b).

Parajungiella pseudolongicornis (Wagner, 1975)

Unpublished record. Běleč nad Orlicí, Na Haltýři [5], ♂, 26.v.1995, Mo.
Vegetation. 14-15, 17, 39, 48; 113, 124.

European species, rather rare, critically endangered; for new data on its distribution see Ježek (2003).

Paramormia (*Paramormia*) *polyascoidea* (Krek, 1971)

Unpublished records. Rašeliniště Kačerov NR peatbog [42], ♂, 18.vii.-8.viii.1994, H + V, MT; Třebovice, Hvězda pond [120], ♂, 16.viii.1996, J.
Vegetation. 3, 8, 14, 30, 33-34, 62, 84; 113, 118, 124.

European and West-Siberian species, also known from Transcaucasia, not rare; for more information on its distribution see Ježek (1990b, 2006a).

Peripsychoda auriculata (Curtis, 1839)

Unpublished records. Cotkytle – V dole [9], ♂, 15.vii.1997, J; Dolní Čermná, Orlice Nature Park [24], ♂, 11.-26.vii.1995, J, red ST; between Hlinné and Dobré [31], ♂, 19.vii.1996, J; between Mladkov and Lichkov [64], ♂, 23.vii.1996, J; Semanín, Mušlový rybník pond [102], ♂, 16.viii.1990, J.
Vegetation. 10, 14, 17, 19, 32, 34, 44, 56, 58, 65, 73, 80, 84, 86, 88-89, 100; 111, 113-115, 117-119, 121, 125.

European and Transcaucasian species (Fig. 44), very common in lowlands and hills; for new data on its distribution see Ježek (2004b).

Peripsychoda zbytka Ježek, 2004

Published record. Ježek (2004a): Zbytka (wildlife reserve) between Pohoří and České Meziříčí, environs of Opočno, Zlatý potok brook meander.
Vegetation. 14, 17, 25, 32, 44-45, 47, 75, 84, 90; 113, 119, 123.

Central-European species (?), conservation status not assessed; for more information see the original description (Ježek 2004a).

Telmatoscopus gressicus (Vaillant, 1972)

Unpublished record. Olešnice v Orlických horách, sawmill [80], ♂, 22.vi.1995, J.
Vegetation. 3, 88, 98; 113-114, 119, 123, 124.

European species, locally common; for new data on its distribution see Ježek (2004b).

Telmatoscopus hajeki Ježek, 1997

Published records. Ježek (1997a), Macek et al. (2005): Trčkov NNR.
Vegetation. 44, 46, 66, 72, 76, 78, 80, 86, 88, 98, 102; 110, 113-114, 117, 121.

Central-European species (?), vulnerable; for more information see the original description (Ježek 1997a).

Philosepedon austriacum Vaillant, 1974

Unpublished record. Hlinné [30], ♂, 19.vii.1996, J.
Vegetation. 14, 57, 65, 73, 82-84, 98; 113, 119, 124-125.

European and West-Siberian species, common; for more information on its distribution see Ježek (2003).

Philosepedon balkanicum Krek, 1971

Published record. Ježek (1996): Zdobnička near Zdobnice.
Unpublished record. Podolí [93], ♂, 17.viii.1994, J.
Vegetation. 44, 71, 80, 84, 98; 111, 117, 121, 125-126.

European species, also reported from Abkhazia (Ježek 2004b), critically endangered.

Threticus lucifugus (Walker, 1856)

Published record. Ježek (1985b): Plasnice.
Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂, 14.-24.ix.1993, J + H, YPT; Bedřichovka [4], ♂, 20.viii.1993, J; Bukačka NNR [7], 4 ♂♂, 16.-24.ix.1993, 28.vi.-18.vii. and 18.vii.-5.viii.1994, H + V, H + V + J, J + H, MT and YPT; Čertův důl valley [13], ♂, 30.viii.1994, J; Hradisko [36], ♂, 1.viii.1996, J; Jamné [37], ♂, 11.vii.1981, J; Rašeliniště Kačerov NR peatbog [42], 2 ♂♂, 26.v.-13.vi.1994 and 1.viii.1993, H, J, YPT and sweeping; Kamenec [43], ♂, 31.viii.1994, J; Klášterec nad Orlicí [46], ♂, 19.ix.1993, J; Kouty [50], ♂, 18.viii.1993, J; Kovárna hostel near Rampuše [51], ♂, 1.viii.1993, J; Mezivrší [62], ♂, 18.viii.1993, J; Mýto [67], ♂, 3.viii.1993, J; Nová Ves, Divoká Orlice river meander [72], ♂, 18.v.1994, J + H; Olešnice v Orlických horách, Číhalka hostel [75], ♂, 12.viii.1993, J; Olešnice v Orlických horách, Panský vrch hill [77], 3 ♂♂, 21.v., 17.-24.v., 24.v.-9.vi.1994, H, H + J, J, YPT and sweeping; Olešnice v Orlických horách, Polish border [78], ♂, 11.ix.1997, J; Olešnice v Orlických horách, Ruské údolí valley [79], ♂, 14.viii.1993, J; between Pěčín and Rokytnice v Orlických horách, Suchá brook [87], ♂, 29.viii.1994, J; Petrovičky [89], ♂, 23.vii.1996, J; Podolí [93], ♂, 17.viii.1994, J; Rokytnice v Orlických horách, Polův kopec hill [94], ♂, 23.viii.1995, J; Sedloňov – Polom [100], 2 ♂♂, 24.v.1994 and 11.ix.1997, J; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], 2 ♂♂, 22.v.1994 and 15.viii.1993, J; Šerlišské louky meadows [111], ♂, 16.-24.ix.1993, J + H, YPT; Trčkov env., Velká louka NM meadow [118], ♂, 9.ix.1997, J; Trčkov NNR [119], 3 ♂♂, 16.-25.v. and 26.v.-9.vi.1994, H, H + J, YPT; Vrchní Orlice [125], ♂, 6.viii.1997, J; Zdobnice, Zdobnice river [132], ♂, 9.viii.1993, J; Zelenka [134], ♂, 9.ix.1997, J; Zvonkové údolí valley [139], 2 ♂♂, 18.viii.1993, 15.-24.ix.1993, J, J + H, YPT and sweeping; Zvonkové údolí valley, Kuní vrch hill [138], 2 ♂♂, 15.ix.1993, J.
Vegetation. 1, 2, 5-6, 8, 12, 14-17, 19-20, 22-26, 29-35, 37-38, 40-41, 44-47, 49-53, 55-56, 59-63, 65-68, 70-81, 83-91, 94-102; 110-114, 116-117, 119, 121, 123-126.

European species, common; see Ježek (1985b, 2006a) and Wagner (1990, 2007) for more data on its distribution.

Threticus silvaticus Ježek, 1985

Unpublished records. Bukačka NNR [7], ♂, 18.vii.-5.viii.1994, H + V, MT; Jamné [37], ♂, 11.vii.1981, J; Klášterec nad Orlicí [46], ♂, 19.ix.1993, J; Říčka brook near Strašidelný mlýn mill [98], ♂, 20.viii.1993, J; Sedloňov – Polom [100], 2 ♂♂, 24.v.1994 and 11.ix.1997, J; Šerlich Mt. [110], ♂, 21.vi.1995, J; Vrchní Orlice [125], ♂, 6.viii.1997, J; Zelenka [134], ♂, 9.ix.1997, J; Zvonkové údolí valley, chapel [140], ♂, 18.viii.1993, J.
Vegetation. 1-2, 5-6, 8, 12, 14-15, 17, 20, 22, 24-26, 29, 31-35, 38, 40-41, 44, 49-53, 55, 60-61, 63, 65-68, 70-71, 73-75, 77, 79-81, 83, 85-91, 94-96, 98-102; 111, 113-114, 116-117, 119, 121, 124, 126.

Central European species, rare and vulnerable; for more information see Ježek (1996, 2006a).

Trichopsychoda hirtella (Tonnoir, 1919)

Unpublished records. Deštné v Orlických horách, Bělá brook [16], ♀, 14.viii.1993, J; Dolní Čermná, Orlice Nature Park [24], 3 ♂♂, 27.vii.-11.viii. and 12.-26.viii.1995, J, LT, yellow and red ST; Kamenec [43], ♂, 31.viii.1994, J; Neratov [70], ♂, 23.vii.1993, J; Olešnice v Orlických horách [74], ♀, 26.vi.1996, J; Vysoké Žibřidovice [128], ♂, 2.viii.1997, J.
Vegetation. 1, 3, 14, 17, 23, 25, 29, 32, 37, 44, 56, 60, 67, 71, 80, 86, 88, 98; 111, 113-114, 121, 124.

European species, common; for more information see Ježek (1985b, 2006a).

Chodopsycha lobata (Tonnoir, 1940)

Published record. Ježek (1990a): Sedloňov.
Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂, 14.-24.ix.1993, J + H, YPT; Bedřichovka [4], ♂, 29.vii.-20.viii.1993, J, YPT; Bukačka NNR [7], ♂ ♀, 16.-24.ix.1993 and 18.vii.-5.viii.1994, H + V, J + H, MT, YPT; Homole Mt. [32], ♀, 9.viii.1993, J; Rašeliniště Kačerov NR peatbog [42], 2 ♂♂ ♀, 1.viii.1993, 26.v.-13.vi. and 18.vii.-8.viii.1994, H, H+V, J, MT and sweeping; Kamenec, Strážný hill [44], ♂, 30.viii.1994, J; Karlův vrch hill (Lubný), Zdobnice river [45], ♀, 31.viii.1994, J; Klášterec nad Orlicí [46], ♀, 19.ix.1993, J; Kouty [50], 2 ♀♀, 29.vii.-20.viii. and 18.viii.1993, J, YPT and sweeping; 1 km NNE of Kunštátská kaple chapel [53], ♂, 20.viii.1993, J; Luisino Údolí [60], ♀, 14.viii.1993, J; Mezivrší [62], 2 ♀♀, 18.viii.1993, J; Mýto [67], ♀, 3.viii.1993, J; Nebeská Rybná [68], ♀, 1.viii.1993, J; Nepomuky [69], ♀, 12.vii.1981, J; Ruské údolí valley [96], ♀, 14.viii.1993, J; Říčka brook near Strašidelný mlýn mill [98], ♀, 20.viii.1993, J; Sedloňov [99], ♀, 3.viii.1993, J; Sedloňovský vrch Mt. [101], ♂, 14.viii.1993, J; Svinecký Dvůr [108], ♀, 19.vii.1996, J; Trčkov env., Velká louka NM meadow [118], ♀, 9.ix.1997, J; Trčkov NNR [119], 3 ♀♀, 16.-29.vi., 30.vi.-18.vii., 26.viii.-15.ix.1994, H + V, H + V + J, MT; Vysoké Žibřidovice [128], ♀, 2.viii.1997, J; Zdobnice, Zdobnice river [132], ♀, 9.viii.1993, J; Zemská brána, Ledříčkova skála rock [136], ♂, 5.viii.1994, J; Zvonkové údolí valley, chapel [140], 2 ♀♀, 18.viii.1993, J.
Vegetation. 1-3, 5-6, 8, 12, 14-15, 17-18, 20, 22-35, 40-41, 44-46, 49-53, 55-56, 59-63, 65, 67-68, 70-72, 74-76, 78-81, 83-84, 86-91, 94-96, 98-102; 110-111, 113-114, 117, 119, 121, 124-126, 128.

European and Transcaucasian species, common; for more information on its distribution see Ježek (2004b, 2006a).

Copropsychoda brevicornis (Tonnoir, 1940)

Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂, 14.-24.ix.1993, J + H, YPT; Dobrá Voda [22], ♂, 23.ix.1993, J; Olešnice v Orlických horách [74], ♂, 12.viii.1993, J; Trčkov, Divoká Orlice river [115], ♂, 12.ix.1995, C.

Vegetation. 17, 19, 21, 32, 34, 45-46, 57, 67, 72, 76, 78, 86, 98; 110, 113, 119, 124.

Palaearctic species; for additional information on its distribution see JEŽEK & YAĞCI (2005) and JEŽEK (2006a).

Logima albipennis (Zetterstedt, 1850)

Published records. JEŽEK (1983a): Deštné v Orlických horách; Horní Lipka, environs of Králíky; Sedloňov; Víska 1 km SW of Svinecký Dvůr.
Unpublished records. Bukačka NNR [7], 4 ♀♀, 16.-24.ix.1993 and 28.vi.-18.vii., 19.vii.-5.viii.1994, H + V, H + V + J, J + H, MT, YPT; Čertův důl valley [13], ♀, 9.viii.1993, J; Deštné v Orlických horách, Bělá brook [16], ♀, 14.viii.1993, J; Dříš [25], ♀, 15.viii.1993, J; Hamry [27], ♀, 12.viii.1993, J; Homole Mt. [32], ♀, 9.viii.1993, J; Horní Studénky, Sychrov pond [35], ♀, 28.vii.1997, J; Rašeliniště Kačerov NR peatbog [42], 2 ♀♀, 26.v.-13.vi. and 18.vii.-8.viii.1994, H, H+V, MT; Kovárna hostel near Rampuše [51], ♀, 1.viii.1993, J; Nebeská Rybná [68], ♀, 1.viii.1993, J; Neratov [70], ♀, 23.vii.1993, J; Nový Dvůr [73], ♀, 1.viii.1993, J; Olešnice v Orlických horách, sawmill [80], ♀, 22.vi.1995, J; Pičberk [90], ♀, 17.viii.1995, C; Plasnice [91], ♀, 15.viii.1993, J; Souvlastní [104], ♀, 1.viii.1993, J; Stěnka hill between Olešnice v Orlických horách and Sedloňov [106], ♀, 12.viii.1993, J; Trčkov env., Velká louka NM meadow [118], ♀, 9.ix.1997, J; Trčkov NNR [119], ♂ 5 ♀♀, 16.-25.v., 26.v.-9.vi., 16.-29.vi., 30.vi.-18.vii., 26.viii.-15.ix.1994, H, H + J, H + V, H + V + J, MT; Vrchní Orlice [125], ♀, 6.viii.1997, J; Vysoká [127], ♀, 2.viii.1997, J; Vysoké Žibřidovice [128], ♀, 2.viii.1997, J; Zdobnice, Zdobnice river [132], ♀, 9.viii.1993, J.
Vegetation. 1-6, 8-9, 12-15, 17, 19-20, 22-26, 29-34, 40-41, 44, 46, 49-53, 55, 57, 59-63, 65-68, 70-91, 94-96, 98-102; 110-111, 113-114, 117, 119, 121, 123-125, 128.

Cosmopolitan species, very common; for new data on its distribution see JEŽEK & BRAVERMAN (2006) and JEŽEK & YAĞCI (2005).

Logima erminea (Eaton, 1893)

Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♀, 14.-24.ix.1993, J + H, YPT; Homole Mt. [32], 1 specimen (genitalia missing), 9.viii.1993, J; Rašeliniště Kačerov NR peatbog [42], ♀, 28.ix.-11.xi.1994, H, MT; Zvonkové údolí valley, chapel [140], ♀, 15.-24.ix.1993, J + H, YPT.
Vegetation. 8, 30, 33, 62, 80, 88, 99; 117, 121.

Palaearctic species, common; for new data on its distribution see JEŽEK (2004b).

Logima satchelli (Quate, 1955)

Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂ ♀, 23.vii. and 14.-24.ix.1993, J, J + H, sweeping and YPT; Bukačka NNR [7], 3 ♂♂, 16.-24.ix.1993, 28.vi.-18.vii. and 19.vii.-5.viii.1994, H + V, H + V + J, J + H, MT, YPT; Deštné v Orlických horách, Bělá brook [16], ♀, 14.viii.1993, J; Deštné v Orlických horách, Satelit hostel [17], ♀, 16.ix.1993, J; Dolní Čermná, Orlice Nature Park [24], ♂ ♀, 11.-26.vii. and 27.vii.-11.viii.1995, J, blue and yellow ST; Hamry [27], ♀, 12.viii.1993, J; Helvíkovice [29], ♀, 17.ix.1993, J; Homole Mt. [32], ♂, 9.viii.1993, J; Horní Studénky, Sychrov pond [35], ♂, 28.vii.1997, J; Julinčino Údolí, Říčka brook [38], 2 ♀♀, 18.vii.1993, J; Kačerov, ponds [40], ♀, 28.vi.1994, J; Rašeliniště Kačerov NR peatbog [42], ♂ ♀, 18.-26.v. and 27.v.-13.vi.1994, H, H + J, MT; Kamenec, Strážný hill [44], ♂, 30.viii.1994, J; Klášterec nad Orlicí [46], ♂, 19.ix.1993, J; Kouty [50], ♀, 18.viii.1993, J; 1 km NNE of Kunštátská kaple chapel [53], ♂, 20.viii.1993, J; between Kunštátská kaple chapel and Tetřevec Mt. [55], ♂, 23.v.1994, J; Luisino Údolí [60], ♂, 14.viii.1993, J; Mezivrší [62], ♂, 18.viii.1993, J; Neratov [70], ♀, 23.vii.1993, J; Neratov, Divoká Orlice river, bridge [71], ♀, 21.vi.1995, J; Nový Dvůr [73], ♂, 1.viii.1993, J; Olešnice v Orlických horách [74], ♂, 12.viii.1993, J; Olešnice v Orlických horách, Číhalka hostel [75], ♀, 12.viii.1993, J; Plasnice [91], ♀, 15.viii.1993, J; Ruské údolí valley [96], ♂, 14.viii.1993, J; Říčka brook near Strašidelný mlýn mill [98], ♂, 20.viii.1993, J; Sedloňov [99], ♀, 3.viii.1993, J; Sedloňovský vrch Mt. [101], ♀, 14.viii.1993, J; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], ♀, 15.viii.1993, J; Svinecký Dvůr [108], ♂, 19.vii.1996, J; Šerlich Mt. [110], ♀, 21.vi.1995, J; Šerlišské

louky meadows [111], ♀, 16.-24.ix.1993, J + H, YPT; vicinity of Šerlišský mlýn mill [113], ♂, 14.viii.1993, J; Trčkov NNR [119], 3 ♂♂ 4 ♀♀, 16.-25.v., 26.v.-9.vi., 16.- 29.vi., 30.vi.-18.vii. and 26.viii.-15.ix.1994, H, H + J, H + V, H + V + J, MT; Vysoká [127], ♀, 2.viii.1997, J; Vysoké Žibřidovice [128], ♀, 2.viii.1997, J; Záměl [130], ♀, 20.ix.1993, J; Zdobnice, Zdobnice river [132], ♀, 9.viii.1993, J; Zelenka [134], ♂, 15.-24.ix.1993, J + H, YPT.
Vegetation. 1-6, 8, 12-15, 17-20, 22-35, 37, 40-41, 44-46, 48-53, 55-57, 59-63, 65, 67-68, 70-81, 83-84, 86-92, 94-96, 98-102; 110-111, 113-114, 117, 119, 121, 123-126, 128.

Holarctic species, common; for new data on its distribution see Ježek & Yağci (2005).

Logima zetterstedti Ježek, 1983

Published record. Ježek (1983a): Víska 1 km SW of Svinecký Dvůr.
Unpublished records. Bukačka NNR [7], ♀, 18.vii.-5.viii.1994, H + V, MT; Dobrá Voda [22], ♀, 23.ix.1993, J; Dolní Čermná, Orlice Nature Park [24], ♂, 27.vii.-11.viii.1995, J, red ST; Dříš [25], ♀, 15.viii.1993, J; between Mladkov and Lichkov [64], ♀, 23.vii.1996, J; Mýto [67], ♀, 3.viii.1993, J; Nepomuky [69], ♀, 12.vii.1981, J; Neratov [70], ♀ (teratological), 23.vii.1993, J; Sedloňov [99], ♀, 3.viii.1993, J; Staré Hutě [105], ♀, 11.v.1995, C + Ma + J; Trčkov NNR [119], ♂ 4 ♀♀, 16.-25.v., 26.v.-9.vi. and 16.-30.vi.1994, H, H + J, H + V, MT; Zemská brána, Pašerácká lávka footbridge [137], ♀, 29.vi.1994, J.
Vegetation. 1-2, 5-9, 12, 14-15, 17, 19-24, 26, 29, 31-35, 40-41, 46, 49-53, 55, 60, 63, 65, 67-68, 70-74, 76, 78-84, 87-88, 90-91, 94-96, 98-99, 101-102; 110-111, 113-114, 117, 119, 121, 124.

Palaearctic species, very common; for additional information on its distribution see Ježek & Yağci (2005).

Psycha grisescens (Tonnoir, 1922)

Published record. Ježek (1990a): Horní Lipka, environs of Králíky.
Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂ ♀, 14.-24.ix.1993 and 24.x.-11.xi.1994, H, J + H, YPT; Bukačka NNR [7], 2 ♂♂ ♀, 28.vi.-18.vii. and 18.vii.-5.viii.1994, H + V, H + V + J, MT; Dobrá Voda [22], ♀, 23.ix.1993, J; Julinčino Údolí, Říčka brook [38], ♂, 18.vii.1993, J; Kačerov, Liberský potok brook [39], ♀, 13.ix.1995, C; Rašeliniště Kačerov NR peatbog [42], ♂ 2 ♀♀, 18.-26.v., 26.v.-13.vi. and 28.ix.-11.xi.1994, H, H + J, MT; Kamenec, Strážný hill [44], ♂, 30.viii.1994, J; U Kunštátské kaple NM [54], ♂, 20.viii.1993, J; Mezivrší [62], ♂, 18.viii.1993, J; Říčka brook between Julinčino Údolí and Říčky [97], ♂, 18.vii.1993, J; Říčka brook between Julinčino Údolí and Říčky, near Strašidelný mlýn mill [98], ♀, 20.viii.1993, J; Sedloňovský vrch Mt. [101], ♀, 14.viii.1993, J; Staré Hutě [105], ♀, 11.v.1995, C + Ma + J; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], ♂, 15.viii.1993, J; Šerlišský Mlýn hostel [112], ♀, 14.viii.1993, J; Trčkov NNR [119], 4 ♂♂ 5 ♀♀, 16.-25.v., 26.v.-9.vi., 16.-29.vi., 30.vi.-18.vii. and 26.viii.-15.ix.1994, H, H + J, H + V, H + V + J, MT, YPT; Velká Deštná Mt. [124], ♀, 20.viii.1993, J; Zdobnice, spring area 2 km SE [131], ♀, 30.viii.1994, J; Zdobnička [133], ♀, 9.viii.1993, J; Zelenka, Louka u Čertova mlýna NE of Koruna Mt. [135], ♀, 18.-27.v.1994, H + J.
Vegetation. 1-2, 5-8, 12, 14-15, 17, 19-24, 26-35, 40-41, 44-46, 49-53, 55, 62-63, 65, 67-72, 74, 76, 78-81, 83-84, 86-91, 94-96, 98-99, 101-102; 110, 113-114, 117, 119, 121, 123-124, 126.

Palaearctic species, common; for updated information on its distribution see Ježek (2004a) and Ježek & Yağci (2005).

Psychoda crassipennis Tonnoir, 1940

Published record. Ježek (2003): Mělčany near Dobruška.
Vegetation. 14-15, 34, 56-57, 66-67, 86, 98; 113-114, 119, 121-122, 124-125.

European species, rather rare; for its distribution see Ježek (2003).

Psychoda phalaenoides (Linnaeus, 1758)

Published record. Ježek (1990a): Horní Lipka, environs of Králíky.
Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂ ♀, 23.vii. and 14.-24.ix.1993, J, J + H, sweeping and YPT; Bedřichovka [4], ♀, 15.ix.1993, J; Bukačka NNR [7], 3 ♂♂ ♀, 16.-24.ix.1993, 28.vi.-18.vii. and 19.vii.-5.viii.1994, H + V, H + V + J, J + H, MT, YPT; Dobrá Voda [22], ♂, 23.ix.1993, J; Dolní Čermná, Orlice Nature Park [24], ♀, 11.-26.vii.1995, J, red ST; Dříš [25], ♀, 15.viii.1993, J; Hamry [27], ♀, 12.viii.1993, J; Helvíkovice [29], ♂, 17.ix.1993, J; Homole Mt. [32], ♂, 9.viii.1993, J; Kačerov, Liberský potok brook [39], ♂, 13.ix.1995, C; Kačerov, ponds [40], ♂, 28.vi.1994, J; Rašeliniště Kačerov NR peatbog [42], 3 ♂♂, 1.viii.1993, 18.-26.v. and 26.v.-13.vi.1994, H, H + J, J, MT and sweeping; Karlův vrch hill (Lubný), Zdobnice river [45], ♀, 31.viii.1994, J; Kovárna hostel env. Rampuše [51], ♀, 1.viii.1993, J; between Kunštátská kaple chapel and Tetřevec Mt. [55], ♂, 23.v.1994, J; Mezivrší [62], ♀, 18.viii.1993, J; between Mladkov and Lichkov [64], ♂, 23.vii.1996, J; Mýto [67], ♀, 3.viii.1993, J; Nebeská Rybná [68], ♀, 1.viii.1993, J; Neratov [70], ♀, 23.vii.1993, J; Nový Dvůr [73], ♀, 1.viii.1993, J; Olešnice v Orlických horách [74], ♀, 12.viii.1993, J; Olešnice v Orlických horách, Číhalka hostel [75], ♀, 12.viii.1993, J; Petrovičky [89], ♀, 23.vii.1996, J; Plasnice [91], ♀, 15.viii.1993, J; Počátky, Raškovská bouda hostel [92], ♀, 30.vii.1997, J; Ruské údolí valley [96], ♀, 14.viii.1993, J; Sedloňovský vrch Mt. [101], ♀, 14.viii.1993, J; Souvlastní [104], ♀, 1.viii.1993, J; Stěnka hill between Olešnice v Orlických horách and Sedloňov [106], ♀, 12.viii.1993, J; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], ♀, 15.viii.1993, J; Svinecký Dvůr [108], ♀, 19.vii.1996, J; Šerlišské louky meadows [111], ♂, 16.-24.ix.1993, J + H, YPT; environs of Šerlišský mlýn mill [113], ♂, 14.viii.1993, J; Trčkov, Divoká Orlice river [115], ♂, 12.ix.1995, C; Trčkov env., Velká louka NM meadow [118], ♂ ♀, 25.v.1994 and 9.ix.1997, J; Trčkov NNR [119], 5 ♂♂ 4 ♀♀, 16.-25.v., 26.v.-9.vi., 16.- 29.vi., 30.vi.-18.vii. and 26.viii.-15.ix.1994, 10.vii.1997, H, H + J, H + V, H + V + J, MT, PT; Vršál [126], ♀, 1.viii.1996, J; Vysoké Žibřidovice [128], ♀, 2.viii.1997, J; Záměl [130], ♀, 20.ix.1993, J; Zvonkové údolí valley, chapel [140], ♂, 15.-24.ix.1993, J + H, YPT.
Vegetation. 1-3, 5-6, 8-9, 12, 14-15, 17-35, 37, 40-41, 44-46, 48-53, 55-57, 60-63, 65, 67-68, 70-76, 78-84, 86-92, 94-102; 110-114, 117, 119, 121, 123-126, 128.

Holarctic species, common; for its distribution see Ježek (1990a).

Psychoda uniformata Haseman, 1907

Unpublished record. Julinčino Údolí, Říčka brook [38], ♀, 18.vii.1993, J.
Vegetation. 111, 113, 121.

Holarctic species, not rare; for new data on its distribution see Ježek (2004b), Ježek & Yağci (2005), and Ježek & Braverman (2006).

Psychodocha cinerea (Banks, 1894)

Unpublished records. Bukačka NNR [7], ♀, 28.vi.-18.vii.1994, H + V + J, MT; Deštné v Orlických horách, Bělá brook [16], ♂, 14.viii.1993, J; Dolní Čermná, Orlice Nature Park [24], ♂, 12.-26.viii.1995, J, red ST; Nepomuky [69], ♂, 12.vii.1981, J; Počátky, Raškovská bouda hostel [92], ♂, 30.vii.1997, J; Rokytnice v Orlických horách, Polův kopec hill [94], ♂, 23.viii.1995, J; Trčkov NNR [119], 5 ♂♂, 26.v.-9.vi., 16.-29.vi., 29.vi.-18.vii, 26.viii.-15.ix.1994, H, H + V, H + V + J, MT; Zdobnička [133], ♂, 9.viii.1993, J.
Vegetation. 1-2, 5-6, 8, 12, 15, 20, 22, 24, 26, 29, 31-34, 37, 40-41, 44, 46, 49-53, 55, 60, 63, 68, 70-72, 74, 76, 78-81, 83-84, 87-88, 90-91, 94-96, 98-99, 101-102; 110-111, 117, 121, 124, 126.

Cosmopolitan species, very common; for detailed distribution see Ježek (1990a).

Psychodocha gemina (Eaton, 1904)

Published records. Ježek (1990a): Deštné v Orlických horách; Víska 1 km SW of Svinecký Dvůr.
Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♀, 14.-24.ix.1993, J + H, YPT; Bedřichovka [4], ♀, 29.vii.-20.viii.1993, J, YPT; Bukačka NNR [7], ♂ 2 ♀♀, 28.vi.-18.vii.

and 18.vii.-5.viii.1994, H + V, H + V + J, MT, YPT; Čertův důl valley [13], ♀, 23.v.1994, J; Hradisko [36], ♀, 1.viii.1996, J; Julinčino Údolí, Říčka brook [38], ♂ ♀, 18.vii.1993, J; Rašeliniště Kačerov NR peatbog [42], 3 ♀♀, 18.-26.v., 26.v.-13.vi. and 18.vii.-8.viii.1994, H, H + J, H + V, MT; Kamenec, Strážný hill [44], ♂, 30.viii.1994, J; Karlův vrch hill (Lubný), Zdobnice river [45], ♀, 31.viii.1994, J; Nebeská Rybná [68], ♀, 1.viii.1993, J; Nepomuky [69], ♀, 12.vii.1981, J; Neratov [70], ♀, 23.vii.1993, J; Olešnice v Orlických horách, Panský vrch hill [77], ♂ ♀, 24.v.-9.vi.1994 and 12.viii.1993, H, J, YPT and sweeping; Olešnice v Orlických horách, Polish border [78], ♀, 11.ix.1997, J; Ošerov [84], ♀, 15.viii.1993, J; Petrovičky [89], ♀, 23.vii.1996, J; Počátky, Raškovská bouda hostel [92], ♀, 30.vii.1997, J; Rokytnice v Orlických horách, Polův kopec hill [94], ♂, 23.viii.1995, J; Trčkov NNR [119], 8 ♀♀, 16.-25.v., 25.v.-9.vi., 16.-29.vi., 29.vi.-18.vii. and 26.viii.-15.ix.1994, H, H + J, H + V, H + V + J, MT; Záměl [130], ♂, 20.ix.1993, J; Zvonkové údolí valley [139], ♀, 15.-24.ix.1993, J + H, YPT.
Vegetation. 1-2, 5-8, 12, 14-17, 20, 22-26, 28-34, 37, 40-42, 44-46, 49-53, 55, 60-63, 66, 68, 70-76, 78-84, 86-88, 90-91, 94-102; 110-114, 117, 119, 121, 123-126.

European species, common; for its distribution see Ježek (1990a).

Psychodocha itoco (Tokunaga & Komyo, 1955)

Published record. Ježek (2003): Trčkov NNR.
Vegetation. 44, 46, 66, 72, 76, 78, 80, 86, 88, 98, 102; 110, 113-114, 117, 121.

Probably a Palaearctic species (recorded from Japan and Central Europe), so far overlooked. In the Czech Republic known from Králický Sněžník Mts., Jeseníky PLA and Železné hory PLA (see Ježek 2003, 2006a).

Psychodula minuta (Banks, 1894)

Unpublished records. Bedřichovka [4], ♀, 29.vii.-20.viii.1993, J, YPT; Bukačka NNR [7], 2 ♂♂, 16.-24.ix.1993 and 18.vii.-5.viii.1994, H + V, J + H, MT, YPT; Rašeliniště Kačerov NR peatbog [42], ♂ ♀, 18.-26.v. and 27.v.-13.vi.1994, H, H + J, MT; Trčkov NNR [119], 2 ♂♂ 3 ♀♀, 26.v.-9.vi., 16.-30.vi. and 26.viii.-15.ix.1994, H, H + V, MT; Zdobnice, spring area 2 km SE [131], ♀, 30.viii.1994, J.
Vegetation. 1-2, 5-6, 8, 12, 14-15, 19-20, 22-24, 26, 29-33, 40-41, 45-46, 49-53, 55, 62-63, 68, 70, 72, 74, 76, 78-79, 81, 83, 86-87, 90-91, 94-96, 98-99, 101-102; 110, 113, 123.

Holarctic species, common; for its distribution see Ježek (1990a) and Ježek & Braverman (2006).

Psychomora trinodulosa (Tonnoir, 1922)

Published record. Ježek (1990a): Sedloňov.
Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], 2 ♂♂ ♀, 18.v.1994, 23.vii. and 14.-24.ix.1993, J, J + H, sweeping and YPT; Bukačka NNR [7], ♂ ♀, 28.vi.-18.vii. and 19.vii.-5.viii.1994, H + V, H + V + J, MT; Dolní Čermná, Orlice Nature Park [24], ♂, 11.-26.vii.1995, J, yellow ST; Helvíkovice [29], ♀, 17.ix.1993, J; Rašeliniště Kačerov NR peatbog [42], 2 ♂♂ ♀, 18.-26.v., 27.v.-13.vi. and 18.vii.-8.viii.1994, H, H + J, H + V, MT; Kouty [50], ♀, 29.vii.-20.viii.1993, J, YPT; Nový Dvůr [73], ♂, 1.viii.1993, J; Olešnice v Orlických horách [74], ♀, 12.viii.1993, J; Olešnice v Orlických horách, Číhalka hostel [75], ♀, 12.viii.1993, J; Souvlastní [104], ♂, 1.viii.1993, J; Stěnka hill between Olešnice v Orlických horách and Sedloňov [106], ♀, 12.viii.1993, J; Svinecký Dvůr [108], ♂, 19.vii.1996, J; Trčkov NNR [119], ♂ 3 ♀♀, 26.v.-9.vi., 16.-29.vi., 30.vi.-18.vii., 26.viii.-15.ix.1994, H, H + V, H + V + J, MT; Vrchní Orlice [125], ♀, 14.ix.1993, J; Záměl [130], ♀, 20.ix.1993, J.
Vegetation. 1-3, 5-6, 8, 12, 14-15, 18-20, 22, 24-26, 29-34, 40-41, 46, 48-53, 55, 57, 62-63, 65-66, 68, 70-76, 78-79, 81, 83-84, 86-92, 94-96, 98-102; 110-111, 113-114, 119, 121, 124-128.

Holarctic species, common; for its distribution see Ježek (1990a) and Ježek & Yağci (2005).

Tinearia alternata (Say, 1824)

Published records. Ježek (1977): Deštné v Orlických horách; Horní Lipka, environs of Králíky; Sedloňov.
Unpublished records. Dolní Čermná, Orlice Nature Park [24], ♀, 7.vii.1981, J; Horní Studénky, Sychrov pond [35], ♀, 28.vii.1997, J; Trčkov NNR [119], ♀, 26.viii.-15.ix.1994, H + V, MT; Zdobnice, spring area 2 km SE [131], ♂, 30.viii.1994, J.
Vegetation. 4, 13-14, 19, 44-46, 72, 76-78, 84, 86, 98; 110, 113-114, 123, 125.

Cosmopolitan species, common; for its distribution see Ježek & Yağci (2005) and Ježek & Braverman (2006).

Tinearia lativentris (Berdén, 1952)

Published record. Ježek (1977): Lázně Bohdaneč NW of Pardubice.
Unpublished record. Dolní Čermná, Orlice Nature Park [24], ♀, 12.-26.viii.1995, J, red ST.
Vegetation. 3, 16-17, 19, 25, 32, 34, 39, 42, 44-45, 57, 61, 66, 73, 75, 84, 86, 97-98; 113-114, 116, 118-119, 123-125.

Holarctic species, common; for additional information on its distribution see Ježek & Yağci (2005).

Ypsydocha setigera (Tonnoir, 1922)

Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂, 14.-24.ix.1993, J + H, YPT; Bukačka NNR [7], ♂♀, 28.vi.-18.vii. and 19.vii.-5.viii.1994, H + V, H + V + J, MT; Nový Dvůr [73], ♂, 1.viii.1993, J; Sedloňov [99], ♀, 3.viii.1993, J; Stěnka hill between Olešnice v Orlických horách and Sedloňov [106], ♀, 12.viii.1993, J; Trčkov NNR [119], ♂ 2 ♀♀, 26.v.-9.vi., 16.-29.vi., 30.vi.-18.vii.1994, H, H + V, H + V + J, MT.
Vegetation. 1-2, 5-6, 8, 12, 14-15, 20, 22, 24-26, 29, 31-35, 40-41, 46, 49-53, 55, 57, 63, 68, 70-72, 74, 76, 78-79, 81, 83, 86-88, 90-91, 94-96, 98-99, 101-102; 110-111, 113, 119, 125, 128.

Cosmopolitan species according to Wagner (1990), not rare; for new data on its distribution see Ježek (2003).

Berdeniella manicata (Tonnoir, 1920)

Unpublished record. Zemská brána, Ledříčkova skála rock [136], ♂, 5.viii.1994, J.
Vegetation. 71, 75, 80, 88; 113, 117.

European species, locally common; for its distribution see Ježek (1996).

Berdeniella matthesi (Jung, 1954)

Published records. Ježek (2003): Rašeliniště Kačerov NR peatbog; Nová Ves, environs of Orlické Záhoří; between Staré Hutě near Luisino Údolí and Svatý Matouš church near Jedlová v Orlických horách; Trčkov NNR; Zelenka, Louka u Čertova mlýna NE of Koruna Mt.
Vegetation. 8, 14, 17, 30, 33, 44-47, 60, 62, 65-66, 72, 76, 78, 80, 86, 88-89, 98, 102; 110, 113-114, 117, 121, 124.

European species, locally common; for new distributional data see Ježek (2006b).

Berdeniella stavniensis (Krek, 1969)

Published records. Ježek (2003): Rašeliniště Kačerov NR peatbog; Nová Ves, environs of Orlické Záhoří; Trčkov NNR.

Vegetation. 8, 14, 17, 30, 33, 44-47, 60, 62, 65-66, 72, 76, 78, 80, 86, 88-89, 98, 102; 110, 113-114, 117, 121, 124.

European species, locally common; for new data on its distribution see Ježek (2006b).

Berdeniella unispinosa (Tonnoir, 1919)

Unpublished records. Bystřec [8], ♂, 11.vii.1981, J; Olešnice v Orlických horách, sawmill [80], ♂, 22.vi.1995, J; Podolí [93], ♂, 17.viii.1994, J; Rokytnice v Orlických horách, Polův kopec hill [94], ♂, 23.viii.1995, J; Šajtava [109], ♂, 11.viii.1996, J; Vysoké Žibřidovice [128], ♂, 2.viii.1997, J.
Vegetation. 3, 14, 17, 25, 34, 44, 56, 60, 66-67, 71, 80, 84, 86, 88, 98; 111, 113-114, 117, 119, 121, 123-126.

European species, common; for its distribution see Wagner (1990).

Berdeniella vimmeri Ježek, 1997

Unpublished records. Olešnice v Orlických horách [74], ♂, 12.viii.1993, J, ALM; Rokytnice v Orlických horách, Polův kopec hill [94], ♂, 23.viii.1995, J.
Vegetation. 14, 17, 32, 34, 44-45, 57, 71, 80, 86, 88, 100; 111, 113, 121, 126.

Central European species, locally common; the species was described in 1997 (Ježek 1997b, 2006c) and not in 1995 as suggested by some papers containing additional faunistic data (Ježek 1996, 2003, 2006a).

Clytocerus (*Boreoclytocerus*) *ocellaris* (Meigen, 1804)

Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], 2 ♂♂, 23.vii.1993 and 18.v.1994, J, J + H; Bukačka NNR [7], ♂, 16.-24.ix.1993, J + H, YPT; Bystřec [8], ♂, 11.vii.1981, J; Čertův důl valley [13], 3 ♂♂, 9.viii.1993, 23.v. and 30.viii.1994, J; Deštné v Orlických horách [15], ♂, 11.viii.1996, J; Deštné v Orlických horách, Museum [19], ♂, 22.v.1994, J; Dolní Čermná, settlement [23], ♂, 8.vii.1981, J; Helvíkovice [29], ♂, 17.ix.1993, J; Hlinné [30], ♂, 19.vii.1996, J; Horní Studénky, Sychrov pond [35], ♂, 28.vii.1997, J; Hradisko [36], ♂, 1.viii.1996, J; Kačerov, ponds [40], ♂, 28.vi.1994, J; Kačerov, settlement [41], ♂, 1.viii.1993, J; Rašeliniště Kačerov NR peatbog [42], 4 ♂♂, 1.viii.1993, 18.-26.v., 27.v.-13.vi. and 18.vii.-8.viii.1994, H, H + J, H + V, J, MT and sweeping; Kamenec [43], ♂, 31.viii.1994, J; Kout [49], ♂, 3.viii.1993, J; Kouty [50], 2 ♂♂, 18.vii. and 18.viii.1993, J; U Kunštátské kaple NM [54], ♂, 27.vii.1993, J; Litice nad Orlicí, Liščí doly valley [58], ♂, 1.viii.1996, J; between Mladkov and Lichkov [64], ♂, 23.vii.1996, J; Mlýnický Dvůr [65], ♂, 23.vii.1997, J; Mýto [67], ♂, 3.viii.1993, J; Nová Ves, Divoká Orlice river meander [72], ♂, 18.v.1994, J + H; Nový Dvůr [73], ♂, 1.viii.1993, J; Olešnice v Orlických horách [74], ♂, 12.viii.1993, J; Olešnice v Orlických horách, Číhalka hostel [75], ♂, 12.viii.1993, J; Olešnice v Orlických horách, Panský vrch hill [77], 2 ♂♂, 17.-26.v., 21.v.1994, H + J, J, YPT and sweeping; Olešnice v Orlických horách, Polish border [78], ♂, 11.ix.1997, J; Opatov, Černý rybník pond [81], ♂, 16.viii.1996, J; Opatovec, Sychrovec pond [82], ♂, 16.viii.1996, J; Ošerov [84], ♂, 15.viii.1993, J; Plasnice [91], ♂, 15.viii.1993, J; Počátky, Raškovská bouda hostel [92], ♂, 30.vii.1997, J; Sedloňov [99], ♂, 3.viii.1993, J; Sedloňov – Polom [100], 2 ♂♂, 24.v.1994 and 11.ix.1997, J; Semanín, Mušlový rybník pond [102], ♂, 16.viii.1990, J; Souvlastní [104], ♂, 1.viii.1993, J; Stěnka hill between Olešnice v Orlických horách and Sedloňov [106], ♂, 12.viii.1993, J; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], ♂, 15.viii.1993, J; Šajtava [109], ♂, 11.viii.1996, J; Trčkov env., Velká louka NM meadow [118], ♂, 9.ix.1997, J; Trčkov NNR [119], ♂, 26.v.-9.vi.1994, H, MT; Údolíčko [121], ♂, 23.vii.1993, J; Vrchní Orlice [125], ♂, 6.viii.1997, J; Vršál [126], ♂, 1.viii.1996, J; Vysoké Žibřidovice [128], ♂, 2.viii.1997, J; Zvonkové údolí valley [139], ♂, 18.viii.1993, J; Zvonkové údolí valley, Kuní vrch hill [138], ♂, 15.ix.1993, J.
Vegetation. 1-2, 4-8, 12-17, 19-20, 22-27, 29-35, 38, 40-41, 44-53, 55-57, 60-63, 65-68, 70-92, 94-96, 98-102; 110-111, 113-114, 116-126, 128.

European species, very common; for its distribution see Ježek & Goutner (1995).

Clytocerus (*Boreoclytocerus*) *rivosus* (Tonnoir, 1919)

Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂, 18.v.1994, J + H; Deštné v Orlických horách [15], ♂, 11.viii.1996, J; Rašeliniště Kačerov NR peatbog [42], 2 ♂♂, 18.-26.v., 18.vii.-8.viii.1994, H + J, H + V, MT; Trčkov NNR [119], ♂, 16.-25.v.1994, H + J, YPT; Vrchní Orlice [125], ♂, 6.viii.1997, J.
Vegetation. 8, 14, 25, 30, 32-34, 46, 56, 62, 65-67, 72, 76, 78, 85-86, 98; 110-111, 119-120, 123-124.

European species, not common, critically endangered; for its distribution see Ježek (2003).

Clytocerus (*Boreoclytocerus*) *splendidus* sp. nov.

Central-European species (?). Conservation status not assessed. See the taxonomic part for the list of localities.

Parabazarella subneglecta (Tonnoir, 1922)

Unpublished record. Dobrá Voda [22], ♂, 23.ix.1993, J.
Vegetation. 17, 19, 21, 34, 67, 98; 113, 119, 124.

Eurasian species, not common; for its distribution see Wagner (1990).

Pericoma (*Pachypericoma*) *blandula* Eaton, 1893

Unpublished record. Between Pěčín and Rokytnice v Orlických horách, Suchá brook [87], ♂, 29.viii.1994, J.
Vegetation. 34; 114, 121, 123-124, 126.

European species, also known from Transcaucasia, Tunisia and Morocco (Ježek 2004b), common.

Pericoma (*Pachypericoma*) *fallax* Eaton, 1893

Unpublished records. Dolní Čermná, settlement [23], ♂, 7.vii.1981, Je; Dolní Čermná, Orlice Nature Park [24], ♂, 27.vii.-11.viii.1995, J, red ST; Nová Ves, Divoká Orlice river meander [72], ♂, 18.v.1994, J + H; Peklo [88], ♂, 1.viii.1996, J; Svinecký Dvůr [108], ♂, 19.vii.1996, J; Zemská brána, Ledříčkova skála rock [136], ♂, 5.viii.1994, J.
Vegetation. 3, 14, 18, 34, 60, 65, 71, 75, 80, 88, 98; 111, 113, 115, 117, 119, 124-125.

European and West-Siberian species, also known from Transcaucasia (Ježek 2004b, 2006b), common.

Pericoma (*Pericoma*) *calcilega* Feuerborn, 1923

Unpublished record. Hradisko [36], ♂, 1.viii.1996, J.
Vegetation. 32, 42, 84, 86; 117, 119, 121, 126.

European species, not rare, endangered; for its distribution see Ježek & Goutner (1995) and Ježek (2004b).

Pneumia crispi (Freeman, 1953)

Unpublished records. Hradisko [36], ♂, 1.viii.1996, J; Olešnice v Orlických horách [74], 2 ♂♂, 12.viii.1993, J, ALM.

Vegetation. 14, 17, 32, 34, 42, 45, 57, 71, 84, 86, 100; 113, 117, 119, 121, 126.

European species, rare and endangered; for more information on its distribution see Ježek (2006b).

Pneumia mutua (Eaton, 1893)

Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂, 23.vii.1993, J; Bukačka NNR [7], ♂, 28.vi.-18.vii.1994, H + V + J, MT; Cotkytle – V dole [9], ♂, 15.vii.1997, J; Černá Voda – Na kříži [11], ♂, 27.vii.1993, J; Černý důl valley [12], ♂, 23.vii.1993, J; Čertův důl valley [13], ♂, 23.v.1994, J; Horní Rokytnice [33], ♂, 27.vii.1993, J; Jamné [37], ♂, 1.vii.1981, J; Kačerov, ponds [40], ♂, 28.vi.1994, J; Rašeliniště Kačerov NR peatbog [42], 3 ♂♂, 18.-26.v., 27.v.-13.vi. and 28.vi.1994, H, H + J, J, MT and sweeping; Kamenec, Strážný hill [44], 2 ♂♂, 9.viii.1993 and 23.v.1994, J; Klečkov, Poříčí hill [47], ♂, 27.vi.1994, J; NE of Komáří vrch hill between Nová Ves and Říčky, hill 770 m a.s.l. [48], ♂, 8.vii.1994, C; Malý Uhřínov [61], ♂, 27.vi.1994, J; Mladkov, spring of Prince Rostislav [63], ♂, 23.vii.1996, J; Nepomuky [69], ♂, 12.vii.1981, J; Olešnice v Orlických horách, Panský vrch hill [77], ♂, 21.v.1994, J; Olešnice v Orlických horách, sawmill [80], ♂, 22.vi.1995, J; Orlické Záhoří, Židovský kout [83], ♂, 1.vii.1994, J; Sedloňov [99], ♂, 3.viii.1993, J; Sedloňovský vrch Mt. [101], ♂, 14.viii.1993, J; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], ♂, 15.viii.1993, J; Šerlich Mt. [110], ♂, 21.vi.1995, J; Trčkov NNR [119], 5 ♂♂, 26.v.-9.vi., 16.- 29.vi.1994, 30.vi.-18.vii.1994, H, H + V, H + V + J, MT; Vysoký Kámen hill SE of Mladkov [129], ♂, 23.vii.1996, J; Zemská brána, Pašerácká lávka footbridge [137], ♂, 29.vi.1994, J.
Vegetation. 1-3, 5-8, 10-15, 17, 19-20, 22, 24-35, 40-41, 44-46, 49-53, 55-56, 60-68, 70-72, 74-76, 78-81, 83-91, 94-96, 98-102; 110-111, 113-114, 117-119, 121, 123-126, 128.

European species, common; for its distribution see Wagner (1990).

Pneumia nubila (Meigen, 1818)

Unpublished records. Boroviny [6], ♂, 19.vii.1996, J; Dolní Čermná, Orlice Nature Park [24], ♂, 27.vii.-11.viii.1995, J, white ST; Hlinné [30], ♂, 19.vii.1996, J; Rašeliniště Kačerov NR peatbog [42], ♂, 18.vii.-8.viii.1994, H + V, MT; Semanín, Mušlový rybník pond [102], ♂, 16.viii.1996, J; Svinecký Dvůr [108], ♂, 19.vii.1996, J; Třebovice, Hvězda pond [120], ♂, 16.viii.1996, J; Záměl [130], ♂, 20.ix.1993, J; Zelenka [134], ♂, 15.-24.ix.1993, J + H, YPT.
Vegetation. 3, 8, 14, 18, 30, 33-34, 44, 57, 62, 65, 71, 73, 82-84, 86, 88, 90, 98; 111, 113-114, 116, 118-119, 124-125.

European species, very common; for its distribution see Ježek & Goutner (1995). Also known from Abkhazia (see Appendix).

Pneumia palustris (Meigen, 1804)

Unpublished record. Between Letohrad and Verměřovice [57], ♂, 19.ix.1993, J.
Vegetation. 44, 48, 98; 111-112, 119, 121.

European species, locally common; for its distribution see Ježek (2006b). Also known from Abkhazia (see Appendix).

Pneumia pilularia (Tonnoir, 1940)

Published record. Ježek (1996): Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog, 1993.
Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂, 18.v.1994, J; Dobrá Voda [22], ♂, 23.ix.1993, J; Helvíkovice [29], ♂, 17.ix.1993, J; Rašeliniště Kačerov NR peatbog [42], 2 ♂♂, 18.-26.v. and 28.ix.-11.xi.1994, H, H + J, MT; between Letohrad and Verměřovice [57], ♂, 19.ix.1993, J; Pastviny

[86], ♂, 19.ix.1993, J; Sedloňov – Polom [100], ♂, 11.ix.1997, J; Sopotnice [103], ♂, 20.ix.1993, J.
Vegetation. 1, 8, 17, 19, 21, 25, 30, 32-35, 44, 48-49, 61-62, 65-67, 69, 71, 73, 75, 80, 86, 92, 98; 111-114, 116, 119, 121, 123-124, 126, 128.

European species, common. Also known from Algeria, Morocco and Tajikistan (Ježek 2004b).

Pneumia plumicornis (Tonnoir, 1922)

Published record. Ježek (1996): Zvonkové údolí between Nová Ves and Podlesí, Kuní vrch hill.
Unpublished records. Čertův důl valley [13], ♂, 30.viii.1994, J; Číhalka – Vápenka, environs of Olešnice v Orlických horách [14], ♂, 11.ix.1997, J; Deštné v Orlických horách, Satelit hostel [17], ♂, 16.ix.1993, J; Deštné v Orlických horách, hill 743.8 m a.s.l. [18], ♂, 16.ix.1993, J; Deštné v Orlických horách, north of the village [20], ♂, 16.ix.1993, J; Kačerov, Liberský potok brook [39], ♂, 13.ix.1995, C; Klášterec nad Orlicí [46], ♂, 19.ix.1993, J; Mnichová [66], ♂, 13.ix.1995, J; Pastviny [86], ♂, 19.ix.1993, J; Trčkov NNR [119], ♂, 26.viii.-15.ix.1994, H + V, MT; Zdobnice, Zdobnice river [132], ♂, 14.ix.1995, C; Zelenka [134], 2 ♂♂, 15.-24.ix.1993, 9.ix.1997, J, J + H, YPT and sweeping; Zvonkové údolí valley [139], ♂, 15.-24.ix.1993, J + H, YPT.
Vegetation. 8, 17, 25, 30, 32-34, 36, 44-47, 60-62, 65, 69, 71-72, 76, 78, 80, 84, 86, 88-89, 98; 110-111, 113-114, 117, 119, 121, 124-126.

European species, locally common; for its distribution including new data see Ježek (1996, 2002).

Pneumia trivialis (Eaton, 1893)

Published records. Macek et al. (2005) presented a general map of its known distribution in the area studied, however, without names of localities.
Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], 3 ♂♂, 23.vii., 14.-24.ix.1993 and 18.v.1994, J, J + H, sweeping and YPT; Bartošovice v Orlických horách, Ostrov, Divoká Orlice river [3], ♂, 10.viii.1994, J; Bedřichovka [4], ♂, 29.vii.-20.viii.1993, J, YPT; Boroviny [6], ♂, 19.vii.1996, J; Bystřec [8], 2 ♂♂, 11.vii.1981, J; Cotkytle – V dole [9], ♂, 15.vii.1997, J; Černý důl valley [12], ♂, 23.vii.1993, J; Čertův důl valley [13], 2 ♂♂, 9.viii.1993 and 30.viii.1994, J; Deštné v Orlických horách, Satelit hostel [17], ♂, 16.ix.1993, J; Deštné v Orlických horách, Museum [19], ♂, 22.v.1994, J; Deštné v Orlických horách, Panorama hotel [21], ♂, 15.viii.1993, J; Dobrá Voda [22], ♂, 23.ix.1993, J; Dolní Čermná, settlement [23], 3 ♂♂, 7. and 8.vii.1981, 18.vii.1992, J, Je, sweeping and YPT; Hamernice, Soutok [26], ♂, 27.vi.1996, J; Hamry [27], ♂, 12.viii.1993, J; Hanička near Panské Pole [28], ♂, 22.viii.1994, J; Helvíkovice [29], ♂, 17.ix.1993, J; Hlinné [30], ♂, 19.vii.1996, J; between Hlinné and Dobré [31], ♂, 19.vii.1996, J; Horní Rokytnice [33], ♂, 27.vii.1993, J; between Horní Rokytnice and Anenský vrch hill [34], ♂, 21.viii.1994, J; Horní Studénky, Sychrov pond [35], ♂, 28.vii.1997, J; Hradisko [36], ♂, 1.viii.1996, J; Kačerov, ponds [40], ♂, 28.vi.1994, J; Kačerov, settlement [41], ♂, 1.viii.1993, J; Rašeliniště Kačerov NR peatbog [42], 6 ♂♂, 1.viii.1993, 18.-26.v., 27.v.-13.vi., 28.vi., 18.vii.-8.viii., 28.ix.-11.xi.1994, H, H + J, H + V, J, MT and sweeping; Kamenec, Strážný hill [44], 3 ♂♂, 9.viii.1993, 23.v.1994 and 11.viii.1996, J; Klečkov, Poříčí hill [47], ♂, 27.vi.1994, J; Kout [49], ♂, 3.viii.1993, J; Kouty [50], 3 ♂♂, 18.vii., 18.viii. and 29.vii.-20.viii.1993, J, sweeping and YPT; Kovárna hostel near Rampuše [51], ♂, 1.viii.1993, J; between Letohrad and Verměřovice [57], ♂, 19.ix.1993, J; Litice nad Orlicí, Liščí doly valley [58], ♂, 1.viii.1996, J; between Luisino Údolí and Velký Uhřínov, spring of Kněžna river [59], ♂, 17.viii.1994, J; between Mladkov and Lichkov [64], ♂, 23.vii.1996, J; Mlýnický Dvůr [65], ♂, 23.vii.1997, J; Mýto [67], ♂, 3.viii.1993, J; Nebeská Rybná [68], 2 ♂♂, 1.viii.1993, J; Neratov, Divoká Orlice river, bridge [71], ♂, 21.vi.1995, J; Nová Ves, Divoká Orlice river meander [72], 2 ♂♂, 18.v.1994, 12.ix.1995, C, J + H; Olešnice v Orlických horách, Panský vrch hill [77], ♂, 21.v.1994, J; Olešnice v Orlických horách, Polish border [78], ♂, 11.ix.1997, J; Olešnice v Orlických horách, sawmill [80], 3 ♂♂, 12.viii.1993, 22.vi.1995, 26.vi.1996, J; Opatov, Černý rybník pond [81], ♂, 16.viii.1996, J; Opatovec, Sychrovec pond [82], ♂, 16.viii.1996, J; Ošerov [84], ♂, 15.viii.1993, J; Pádolí near Luisino Údolí [85], ♂, 17.viii.1994, J; Pastviny [86], ♂,

19.ix.1993, J; between Pěčín and Rokytnice v Orlických horách, Suchá brook [87], ♂, 29.viii.1994, J; Plasnice [91], ♂, 15.viii.1993, J; Podolí [93], ♂, 17.viii.1994, J; Rokytnice v Orlických horách, U buku [95], ♂, 18.vii.1993, J; Ruské údolí valley [96], 2 ♂♂, 14.viii.1993 and 18.viii.1995, C, J; Říčka brook near Strašidelný mlýn mill [98], ♂, 20.viii.1993, J; Sedloňov [99], ♂, 3.viii.1993, J; Sedloňov – Polom [100], 3 ♂♂, 19.v. and 24.v.1994., 11.ix.1997, J; Semanín, Mušlový rybník pond [102], ♂, 16.viii.1996, J; Sopotnice [103], ♂, 20.ix.1993, J; Souvlastní [104], ♂, 1.viii.1993, J; Stěnka hill between Olešnice v Orlických horách and Sedloňov [106], ♂, 12.viii.1993, J; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], 2 ♂♂, 15.viii.1993 and 22.v.1994, J; Svinecký Dvůr [108], ♂, 19.vii.1996, J; Šajtava [109], ♂, 11.viii.1996, J; Šerlišské louky meadows [111], ♂, 16.-24.ix.1993, J + H, YPT; Šerlišský Mlýn hostel [112], ♂, 30.vi.1994, J; Trčkov, Divoká Orlice river [115], ♂, 12.ix.1995, C; Trčkov env., Trčkovská louka meadow [117], ♂, 15.v.1997, J; Trčkov env., Velká louka NM meadow [118], ♂, 9.ix.1997, J; Trčkov NNR [119], 4 ♂♂, 16.-25.v. and 26.viii.-15.ix.1994, H + J, H + V, MT, YPT; Údolíčko [121], ♂, 23.vii.1993, J; Vápenný vrch hill SE of Luisino Údolí [123], ♂, 11.viii.1996, J; Vrchní Orlice [125], ♂, 6.viii.1997, J; Vršál [126], ♂, 1.viii.1996, J; Vysoká [127], ♂, 2.viii.1997, J; Vysoké Žibřidovice [128], ♂, 2.viii.1997, J; Záměl [130], ♂, 20.ix.1993, J; Zdobnice, spring area 2 km SE [131], ♂, 30.viii.1994, J; Zdobnice, Zdobnice river [132], ♂, 9.viii.1993, J; Zelenka [134], 2 ♂♂, 15.-24.ix.1993, 9.ix.1997, J, J + H, sweeping and YPT; Zemská brána, Ledříčkova skála rock [136], ♂, 5.viii.1994, J; Zemská brána, Pašerácká lávka footbridge [137], ♂, 29.vi.1994, J; Zvonkové údolí valley [139], 2 ♂♂, 18.viii. and 15.-24.ix.1993, J, J + H, sweeping and YPT; Zvonkové údolí valley, Kuní vrch hill [138], ♂, 15.ix.1993, J.

Vegetation. 1, 3-4, 8, 10-11, 13-19, 21, 23, 25, 27, 29-30, 32-35, 37-39, 44-49, 54, 56-58, 60-62, 64-69, 71-73, 75-86, 88-90, 92-94, 96, 98-100, 102; 110-119, 121-126, 128.

European species, very common; for its distribution see Wagner (1990), new data in Ježek (2002).

Saraiella rotunda (Krek, 1970)

Published records. Ježek (1996): Říčka brook near Strašidelný mlýn mill, environs of Říčky; Šerlišské louky meadows.

Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂, 18.v.1994, J + H; Bartošovice v Orlických horách, Ostrov, Divoká Orlice river [3], ♂, 10.viii.1994, J; Čertův důl valley [13], 2 ♂♂, 23.v. and 30.viii.1994, J; Číhalka – Vápenka, environs of Olešnice v Orlických horách [14], ♂, 11.ix.1997, J; Deštné v Orlických horách, Panorama hotel [21], ♂, 15.viii.1993, J, ALM; Horní Rokytnice, Anenský vrch hill [34], ♂, 21.viii.1994, J; Kamenec [43], ♂, 31.viii.1994, J; Kamenec, Strážný hill [44], 5 ♂♂, 9.viii.1993, 23.v.1994 and 11.viii.1996, J, ALM; Kouty [50], 10 ♂♂, 18.viii.1993, J, ALM; 1 km NNE of Kunštátská kaple chapel [53], 9 ♂♂, 20.viii.1993, J, ALM; between Luisino Údolí and Velký Uhřínov, spring of Kněžna river [59], ♂, 17.viii.1994, J; Mezivrší [62], ♂, 18.viii.1993, J, ALM; Nebeská Rybná [68], ♂, 1.viii.1993, J, ALM; Nová Ves, Divoká Orlice river meander [72], ♂, 18.v.1994, J + H; Olešnice v Orlických horách, Panský vrch hill [77], ♂, 21.v.1994, J; Ošerov [84], 2 ♂♂, 15.viii.1993, J, ALM; Plasnice [91], 4 ♂♂, 15.viii.1993, J, ALM; Ruské údolí valley [96], ♂, 18.viii.1995, C; Staré Hutě [105], ♂, 11.v.1995, C + Ma + J; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], ♂, 22.v.1994, J; Trčkov env., Hraniční louka meadow [116], ♂, 25.v.1994, J, LT; Trčkov env., Velká louka NM meadow [118], ♂, 9.ix.1997, J; Trčkov NNR [119], 10 ♂♂, 16.-25.v., 26.v.-9.vi., 16.-30.vi. and 26.viii.-15.ix.1994, H, H + J, H + V, MT, YPT; Zdobnice, spring area 2 km SE [131], ♂, 30.viii.1994, J; Zelenka [134], 2 ♂♂, 15.-24.ix.1993 and 9.ix.1997, J, J + H, YPT and sweeping, ALM; Zelenka, Louka u Čertova mlýna NE of Koruna Mt. [135], ♂, 18.-27.v.1994, H + J, YPT; Zvonkové údolí valley, Kuní vrch hill [138], 6 ♂♂, 15.-24.ix.1993, J + H, YPT and sweeping, ALM.

Vegetation. 6-7, 11, 14, 17, 19, 23, 25, 30, 32, 34, 37, 43-47, 49, 52, 54-56, 60-61, 65-67, 71-76, 78, 80, 84-86, 88-89, 96, 98-99; 110-111, 113, 117, 119, 121, 123-126, 128.

Sub-Mediterranean species, critically endangered, locally common; for its distribution see Ježek (2006b).

Szaboiella hibernica (Tonnoir, 1940)

Published records. Ježek (1996, 2004a): Černá Voda between Orlické Záhoří and Nová Ves, 800 m a.s.l., 1993; Horní Lipka, environs of Králíky; Mýto, environs of Mnichová; Trčkov NNR.
Unpublished records. Černá Voda between Orlické Záhoří and Nová Ves, hill 830 m a.s.l. [10], ♂, 22.viii.1994, J; Rašeliniště Kačerov NR peatbog [42], ♂, 26.v.-13.vi.1994, H, YPT; Mladkov, spring of Prince Rostislav [63], ♂, 23.vii.1996, J; Nepomuky [69], ♂, 12.vii.1981, J; Olešnice v Orlických horách [74], ♂, 26.vi.1996, J; Olešnice v Orlických horách, Panský vrch hill [77], ♂, 21.v.1994, J; Podolí [93], ♂, 17.viii.1994, J; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], 5 ♂♂, 15.viii.1993, J, ALM; Tisovec, Huťský potok brook [114], ♂, 17.viii.1994, J.
Vegetation. 3, 8, 11, 14, 25, 30, 32-34, 44, 56, 60, 62, 65, 69, 71, 76, 80, 84, 86, 88-89, 96, 98; 111, 113-114, 117, 121, 125, 126.

European species, also known from Transcaucasia, critically endangered, only locally common; for its distribution see Ježek (2004a).

Tonnoiriella nigricauda (Tonnoir, 1919)

Published record. Ježek (1996): Rašeliniště Kačerov peatbog, 1993.
Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂, 18.v.1994, J + H; Bedřichovka [4], ♂, 29.vii.-20.viii.1993, J, YPT, ALM; Rašeliniště Kačerov NR peatbog [42], 4 ♂♂, 18.-26.v., 27.5.-13.vi. and 18.vii.-8.viii.1994, H, H + J, H + V, MT, YPT, slides and ALM; Sedloňov – Polom [100], ♂, 24.v.1994, J; Semanín, Mušlový rybník pond [102], ♂, 16.viii.1996, J; Třebovice, Hvězda pond [120], ♂, 16.viii.1996, J.
Vegetation. 1, 3, 8, 14, 17, 23, 30, 32-35, 38, 44, 49, 56, 62, 65-67, 73, 77, 84, 86, 88, 96, 98; 113-114, 118, 124.

European species, critically endangered, not common; for its distribution see Ježek (2006b).

Tonnoiriella pulchra (Eaton, 1893)

Unpublished records. Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], ♂, 18.v.1994, J + H; Čertův důl valley [13], ♂, 23.v. and 30.viii.1994, J; Kačerov, Liberský potok brook [39], ♂, 13.ix.1995, C; Rašeliniště Kačerov NR peatbog [42], 3 ♂♂, 26.v.-13.vi., 18.vii.-8.viii. and 28.ix.-11.xi.1994, H, H + V, MT; Olešnice v Orlických horách, Panský vrch hill [77], ♂, 21.v.1994, J; Sedloňov [99], ♂, 3.viii.1993, J; Sedloňov – Polom [100], 2 ♂♂, 24.v.1994 and 11.ix.1997, J; Sopotnice [103], ♂, 20.ix.1993, J.
Vegetation. 1, 7-8, 14, 17, 25, 30, 32-35, 38, 45, 49, 61-62, 65-67, 71, 73, 75, 77, 86, 88-89, 96, 98; 111, 113-114, 116, 119, 121, 123-126.

European species, not very frequent, recorded also from Morocco; for its distribution see Wagner (1990, 2007).

Ulomyia annulata annulata (Tonnoir, 1922)

Unpublished record. Stěnka hill between Olešnice v Orlických horách and Sedloňov [106], ♂, 12.viii.1993, J.
Vegetation. 14, 57, 75, 86; 113, 119.

European and West-Siberian subspecies, not very frequent; for its distribution see Ježek (1997a).

Ulomyia cognata (Eaton, 1893)

Unpublished records. Amerika near Klášterec nad Orlicí [1], ♂, 5.viii.1994, J; Deštné v Orlických horách, Panorama hotel [21], ♂, 15.viii.1993, J; Kačerov, Liberský potok brook [39], ♂, 13.ix.1995, C; Rašeliniště Kačerov NR

peatbog [42], 4 ♂♂, 18.-26.v., 27.v.-13.vi., 18.vii.-8.viii.1994, H, H + J, H + V, MT, YPT; Mlýnický Dvůr [65], ♂, 23.vii.1997, J; Olešnice v Orlických horách, Panský vrch hill [77], ♂, 21.v.1994, J; Plasnice [91], ♂, 15.viii.1993, J; Podolí [93], ♂, 17.viii.1994, J; Rokytnice v Orlických horách, Polův kopec hill [94], ♂, 23.viii.1995, J; Říčka brook near Strašidelný mlýn mill [98], ♂, 20.viii.1993, J; Souvlastní [104], ♂, 1.viii.1993, J; Stěnka hill between Olešnice v Orlických horách and Sedloňov [106], ♂, 12.viii.1993, J; Vrchní Orlice [125], ♂, 6.viii.1997, J; Zdobnice, Zdobnice river [132], ♂, 9.viii.1993, J.

Vegetation. 8, 14, 25, 30, 32-34, 44, 56-57, 62, 65-67, 69, 71, 75, 80, 84-86, 88-89, 96, 98; 111, 113-114, 117, 119, 121, 124-126.

European species, common; for its distribution see Wagner (1990, 2007), some new data are included in Ježek (2002).

Ulomyia fuliginosa (Meigen, 1804)

Unpublished records. Amerika near Klášterec nad Orlicí [1], ♂, 5.viii.1994, J; Bartošovice v Orlických horách, Rašeliniště pod Předním vrchem peatbog [2], 3 ♂♂, 18.v.1994, 23.vii. and 14.-24.ix.1993, J, J + H, sweeping and YPT; Bartošovice v Orlických horách, Ostrov, Divoká Orlice river [3], ♂, 10.viii.1994, J; Bystřec [8], ♂, 11.vii.1981, J; Cotkytle – V dole [9], ♂, 15.vii.1997, J; Deštné v Orlických horách, Satelit hostel [17], ♂, 16.ix.1993, J; Deštné v Orlických horách, hill 743.8 m a.s.l. [18], 2 ♂♂, 16.ix.1993 and 11.viii.1996, J; Deštné v Orlických horách, Museum [19], ♂, 22.v.1994, J; Deštné v Orlických horách, Panorama hotel [21], ♂, 15.viii.1993, J; Dobrá Voda [22], ♂, 23.ix.1993, J; Dolní Čermná, Orlice Nature Park [24], 2 ♂♂, 7.vii. and 8.vii.1981, J, Je; Dříš [25], ♂, 15.viii.1993, J; Hamernice, Soutok [26], ♂, 27.vi.1996, J; Hlinné [30], ♂, 19.vii.1996, J; between Horní Rokytnice and Anenský vrch hill [34], ♂, 21.viii.1994, J; Horní Studénky, Sychrov pond [35], ♂, 28.vii.1997, J; Hradisko [36], ♂, 1.viii.1996, J; Julinčino Údolí, Říčka brook [38], ♂, 18.vii.1993, J; Kačerov, Liberský potok brook [39], 3 ♂♂, 1.viii.1993 and 13.ix.1995, C, J; Kačerov, ponds [40], ♂, 28.vi.1994, J; Rašeliniště Kačerov NR peatbog [42], 4 ♂♂, 18.-26.v., 27.v.-13.vi., 28.vi., 18.vii.-8.viii.1994, H, H + J, H + V, J, MT and sweeping; Kamenec, Strážný hill [44], ♂, 9.viii.1993, J; Klečkov, Poříčí hill [47], ♂, 27.vi.1994, J; Kovárna hostel near Rampuše [51], ♂, 1.viii.1993, J; between Luisino Údolí and Velký Uhřínov, spring of Kněžna river [59], ♂, 17.viii.1994, J; Malý Uhřínov [61], ♂, 27.vi.1994, J; Mladkov, spring of Prince Rostislav [63], ♂, 23.vii.1996, J; between Mladkov and Lichkov [64], ♂, 23.vii.1996, J; Mlýnický Dvůr [65], ♂, 23.vii.1997, J; Mnichová [66], ♂, 13.ix.1995, J; Mýto [67], ♂, 3.viii.1993, J; Nebeská Rybná [68], 2 ♂♂, 1.viii.1993, J; Nepomuky [69], ♂, 12.vii.1981, J; Nový Dvůr [73], ♂, 1.viii.1993, J; Olešnice v Orlických horách [74], 2 ♂♂, 12.viii.1993 and 26.vi.1996, J; Olešnice v Orlických horách, Čihalka hostel [75], ♂, 12.viii.1993, J; Olešnice v Orlických horách, Kutl near Kostelní vrch hill [76], ♂, 26.vi.1996, J; Olešnice v Orlických horách, Panský vrch hill [77], ♂, 21.v.1994, J; Olešnice v Orlických horách, Polish border [78], ♂, 11.ix.1997, J; Ošerov [84], ♂, 15.viii.1993, J; Pádolí near Luisino Údolí [85], ♂, 17.viii.1994, J; Pastviny [86], ♂, 19.ix.1993, J; between Pěčín and Rokytnice v Orlických horách, Suchá brook [87], ♂, 29.viii.1994, J; Petrovičky [89], ♂, 23.vii.1996, J; Pičberk [90], ♂, 17.viii.1995, C; Plasnice [91], ♂, 15.viii.1993, J; Podolí [93], ♂, 17.viii.1994, J; Rokytnice v Orlických horách, Polův kopec hill [94], ♂, 23.viii.1995, J; Rokytnice v Orlických horách, U buku [95], ♂, 18.vii.1993, J; Sedloňov [99], 2 ♂♂, 3.viii.1993 and 24.v.1994, J; Sedloňov – Polom [100], 2 ♂♂, 19.v.1994 and 11.ix.1997, J; Sopotnice [103], ♂, 20.ix.1993, J; Staré Hutě [105], ♂, 11.v.1995, C + Ma + J; Stěnka hill between Olešnice v Orlických horách and Sedloňov [106], ♂, 12.viii.1993, J; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], ♂, 15.viii.1993, J; Trčkov env., Velká louka NM meadow [118], ♂, 9.ix.1997, J; Trčkov NNR [119], ♂, 26.viii.-15.ix.1994, H + V, MT; Třebovice, Hvězda pond [120], ♂, 16.viii.1996, J; Vrchní Orlice [125], ♂, 6.viii.1997, J; Vysoká [127], ♂, 2.viii.1997, J; Vysoké Žibřidovice [128], ♂, 2.viii.1997, J; Zdobnice, Zdobnice river [132], 2 ♂♂, 9.viii.1993 and 14.ix.1995, J, C; Zemská brána, Pašerácká lávka footbridge [137], ♂, 29.vi.1994, J; Zvonkové údolí valley [139], ♂, 15.-24.ix.1993, J + H, YPT; Zvonkové údolí valley, Kuní vrch hill [138], ♂, 15.ix.1993, J.

Vegetation. 1, 3-4, 7-10, 13-14, 16-17, 19, 21, 25, 30, 32-35, 37-38, 42, 44-47, 49, 54, 56-57, 60-62, 65-69, 71-73, 75-78, 80-86, 88-90, 93, 96-98, 100; 110-114, 116-121, 123-126, 128.

European species, one of the most common ones; for its distribution see Ježek (2004b).

Ulomyia plumata (Tonnoir, 1919)

Published records. Ježek (1996): Kouty near Říčky; 2 km NE of Kunštátská kaple chapel.
Unpublished records. Bukačka NNR [7], ♂, 28.vi.-18.vii.1994, H + V + J, MT; Černá Voda, hill 830 m a.s.l. [10], ♂, 22.viii.1994, J; Černý důl valley [12], ♂, 23.vii.1993, J, ALM; Čertův důl valley [13], ♂, 23.v.1994, J; Deštné v Orlických horách [15], ♂, 11.viii.1996, J; Deštné v Orlických horách, Museum [19], ♂, 22.v.1994, J; Jamné [37], ♂, 11.vii.1981, J; Kačerov, ponds [40], ♂, 28.vi.1994, J; Rašeliniště Kačerov NR peatbog [42], ♂, 28.vi.1994, J; Kamenec, Strážný hill [44], 12 ♂♂, 9.viii.1993 and 11.viii.1996, J, ALM + slide; NE of Komáří vrch hill between Nová Ves and Říčky, hill 770 m a.s.l. [48], ♂, 8.vii.1994, C; Kunštát [52], ♂, 1.vii.1994, J; Mladkov, spring of Prince Rostislav [63], ♂, 23.vii.1996, J; Nepomuky [69], ♂, 12.vii.1981, J; Olešnice v Orlických horách, Panský vrch hill [77], ♂, 21.v.1994, J; Orlické Záhoří, Židovský kout [83], ♂, 1.vii.1994, J; Pádolí near Luisino Údolí [85], ♂, 17.viii.1994, J; Petrovičky [89], ♂, 23.vii.1996, J; Počátky, Raškovská bouda hostel [92], ♂, 30.vii.1997, J; Podolí [93], ♂, 17.viii.1994, J; Ruské údolí valley [96], ♂, 18.viii.1995, C; Svatý Matouš church between Jedlová v Orlických horách and Staré Hutě [107], ♂, 22.v.1994, J; Šajtava [109], ♂, 11.viii.1996, J; Šerlich Mt. [110], ♂, 21.vi.1995, J; Tisovec, Huťský potok brook [114], ♂, 17.viii.1994, J; Trčkov NNR [119], ♂, 29.vi.-18.vii.1994, H + V + J, MT; Uhlířský důl valley [122], ♂, 23.vii.1996, J; Vápenný vrch hill SE of Luisino Údolí [123], ♂, 11.viii.1996, J; Vysoký Kámen hill SE of Mladkov [129], ♂, 23.vii.1996, J; Zemská brána, Pašerácká lávka footbridge [137], ♂, 29.vi.1994, J; Zvonkové údolí valley [139], ♂, 18.viii.1993, J.
Vegetation. 1-2, 5-8, 11-15, 17, 20, 22-27, 29-34, 37, 40-41, 43-46, 49-53, 55-56, 60-72, 74-76, 78-81, 83-91, 94-102; 110-114, 117, 119-121, 123-126, 128.

European species, rare and critically endangered (Fig. 44); for its distribution see Ježek (2004b).

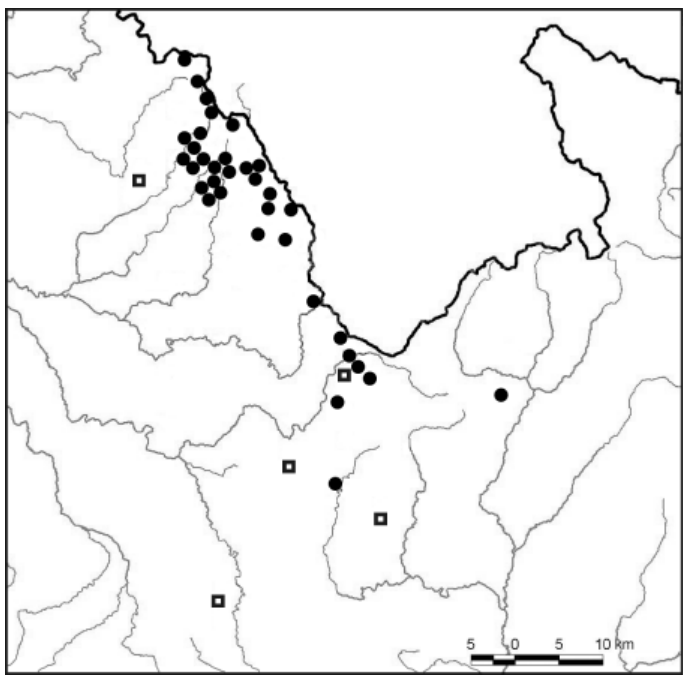


Fig. 44. Occurrence of *Ulomyia plumata* (Tonnoir, 1919) (circles), distributed in the mountains, and *Peripsychoda auriculata* (Curtis, 1839) (squares), characteristic of lowlands and hills, in the Orlické hory Mts.

Ulomyia vaseki Ježek, 2002

Published records. Ježek (2002): Bukačka NNR; Kamenec between Luisino Údolí and Zdobnice, Strážný hill; 2 km NE of Kunštátská kaple chapel; Sedloňovský vrch Mt., environs of Sedloňov; Šerlišský mlýn mill; Uhlířský důl valley near Bouda stronghold between Těchonín and Dolní Bořikovice. Macek et al. (2005): Bukačka NNR.
Vegetation. 1-2, 5-6, 8, 12, 15, 20, 22, 24, 26-29, 31-34, 40-41, 49-53, 55, 60, 63, 65, 68, 70-71, 74, 79-81, 83, 85, 87-91, 94-96, 98-102; 111, 113-114, 117, 121, 124, 126.

European species, rare and endangered; for its distribution see Ježek (2002).

List of moth flies of all visited localities

(CR, EN, VU and NS species are marked)

1 – *Ulomyia cognata*, *U. fuliginosa*. **2** – *Threticus lucifugus*, *Chodopsycha lobata*, *Copropsychoda brevicornis*, *Logima erminea*, *L. satchelli*, *Psycha grisescens*, *Psychoda phalaenoides*, *Psychodocha gemina*, *Psychomora trinodulosa*, *Ypsydocha setigera*, *Clytocerus ocellaris*, *C. rivosus* [CR], *Pneumia mutua*, *P. pilularia*, *P. trivialis*, *Saraiella rotunda* [CR], *Tonnoiriella nigricauda* [CR], *T. pulchra*, *Ulomyia fuliginosa*. **3 –** *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia fuliginosa*. **4 –** *Threticus lucifugus*, *Chodopsycha lobata*, *Psychoda phalaenoides*, *Psychodocha gemina*, *Psychodula minuta*, *Pneumia trivialis*, *Tonnoiriella nigricauda* [CR]. **5 –** *Parajungiella ellisi* [CR], *P. longicornis*, *P. pseudolongicornis* [CR]. **6 –** *Pneumia nubila*, *P. trivialis*. **7 –** *Threticus lucifugus*, *T. silvaticus* [VU], *Chodopsycha lobata*, *Logima albipennis*, *L. satchelli*, *L. zetterstedti*, *Psycha grisescens*, *Psychoda phalaenoides*, *Psychodocha cinerea*, *P. gemina*, *Psychodula minuta*, *Psychomora trinodulosa*, *Ypsydocha setigera*, *Clytocerus ocellaris*, *Pneumia mutua*, *Ulomyia plumata* [CR], *U. vaseki* [EN]. **8 –** *Berdeniella unispinosa*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Ulomyia fuliginosa*. **9 –** *Peripsychoda auriculata*, *Pneumia mutua*, *P. trivialis*, *Ulomyia fuliginosa*. **10 –** *Szaboiella hibernica* [CR], *Ulomyia plumata* [CR]. **11 –** *Pneumia mutua*. **12 –** *Pneumia mutua*, *P. trivialis*, *Ulomyia plumata* [CR]. **13 –** *Threticus lucifugus*, *Logima albipennis*, *Psychodocha gemina*, *Clytocerus ocellaris*, *C. splendidus* sp. nov. [NS], *Pneumia mutua*, *P. plumicornis*, *P. trivialis*, *Saraiella rotunda* [CR], *Tonnoiriella pulchra*, *Ulomyia plumata* [CR]. **14 –** *Pneumia plumicornis*, *Saraiella rotunda* [CR]. **15 –** *Logima albipennis*, *Psychodocha gemina*, *Tinearia alternata*, *Clytocerus ocellaris*, *C. rivosus* [CR], *Ulomyia plumata* [CR]. **16 –** *Trichopsychoda hirtella*, *Logima albipennis*, *L. satchelli*, *Psychodocha cinerea*. **17 –** *Logima satchelli*, *Pneumia plumicornis*, *P. trivialis*, *Ulomyia fuliginosa*. **18 –** *Pneumia plumicornis*, *Ulomyia fuliginosa*. **19 –** *Sycorax silacea*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Ulomyia fuliginosa*, *U. plumata* [CR]. **20 –** *Pneumia plumicornis*. **21 –** *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia cognata*, *U. fuliginosa*. **22 –** *Copropsychoda brevicornis*, *Logima zetterstedti*, *Psycha grisescens*, *Psychoda phalaenoides*, *Parabazarella subneglecta*, *Pneumia pilularia*, *P. trivialis*, *Ulomyia fuliginosa*. **23 –** *Clytocerus ocellaris*, *Pericoma fallax*, *Pneumia trivialis*. **24 –** *Parajungiella longicornis*, *Peripsychoda auriculata*, *Trichopsychoda hirtella*, *Logima satchelli*, *L. zetterstedti*, *Psychoda phalaenoides*, *Psychodocha cinerea*, *Psychomora trinodulosa*, *Tinearia alternata*, *T. lativentris*, *Pericoma fallax*, *Pneumia nubila*, *Ulomyia fuliginosa*. **25 –** *Logima albipennis*, *L. zetterstedti*, *Psychoda phalaenoides*, *Ulomyia fuliginosa*. **26 –** *Pneumia trivialis*, *Ulomyia fuliginosa*. **27 –** *Logima albipennis*, *L. satchelli*, *Psychoda phalaenoides*, *Pneumia trivialis*. **28 –** *Pneumia trivialis*. **29 –** *Logima satchelli*, *Psychoda phalaenoides*, *Psychomora trinodulosa*, *Clytocerus ocellaris*, *Pneumia pilularia*, *P. trivialis*. **30 –** *Philosepedon austriacum*, *Clytocerus ocellaris*, *Pneumia nubila*, *P. trivialis*, *Ulomyia fuliginosa*. **31 –** *Peripsychoda auriculata*, *Pneumia trivialis*. **32 –** *Chodopsycha lobata*, *Logima albipennis*, *L. erminea*, *L. satchelli*, *Psychoda phalaenoides*. **33 –** *Pneumia mutua*, *P. trivialis*. **34 –** *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia fuliginosa*. **35 –** *Logima albipennis*, *L. satchelli*, *Tinearia alternata, Clytocerus ocellaris, Pneumia trivialis, Ulomyia fuliginosa*. **36 –** *Threticus lucifugus*, *Psychodocha gemina*, *Clytocerus ocellaris*, *Pericoma calcilega* [EN], *Pneumia crispi* [EN], *P. trivialis*, *Ulomyia fuliginosa*. **37 –** *Threticus lucifugus*, *T. silvaticus* [VU], *Pneumia mutua*, *Ulomyia plumata* [CR]. **38 –** *Logima satchelli*, *Psycha grisescens*, *Psychoda uniformata*, *Psychodocha gemina*, *Ulomyia fuliginosa*. **39 –** *Psycha grisescens*, *Psychoda phalaenoides*, *Pneumia plumicornis*, *Tonnoiriella pulchra*, *Ulomyia cognata*, *U. fuliginosa*. **40 –** *Logima satchelli*, *Psychoda phalaenoides*, *Clytocerus ocellaris*, *Pneumia mutua*, *P. trivialis*, *Ulomyia fuliginosa*, *U. plumata* [CR]. **41 –** *Clytocerus ocellaris*, *Pneumia trivialis*. **42 –** *Sycorax silacea*, *Parajungiella consors*, *P. longicornis*, *Paramormia polyascoidea*, *Threticus lucifugus*, *Chodopsycha lobata*, *Logima albipennis*, *L. erminea*, *L. satchelli*, *Psycha grisescens*, *Psychoda phalae-*

noides, *Psychodocha gemina*, *Psychodula minuta*, *Psychomora trinodulosa*, *Berdeniella matthesi*, *B. stavniensis*, *Clytocerus ocellaris*, *C rivosus* [CR], *Pneumia mutua*, *P. nubila*, *P. pilularia*, *P. trivialis*, *Szaboiella hibernica* [CR], *Tonnoiriella nigricauda* [CR], *T. pulchra*, *Ulomyia cognata*, *U. fuliginosa*, *U. plumata* [CR]. **43 –** *Threticus lucifugus*, *Trichopsychoda hirtella*, *Clytocerus ocellaris*, *Saraiella rotunda* [CR]. **44 –** *Chodopsycha lobata*, *Logima satchelli*, *Psycha grisescens*, *Psychodocha gemina*, *Pneumia mutua*, *P. trivialis*, *Saraiella rotunda* [CR], *Ulomyia fuliginosa*, *U. plumata* [CR], *U. vaseki* [EN]. **45 –** *Chodopsycha lobata*, *Psychoda phalaenoides*, *Psychodocha gemina*. **46 –** *Threticus lucifugus*, *T. silvaticus* [VU], *Chodopsycha lobata*, *Logima satchelli*, *Pneumia plumicornis*. **47 –** *Pneumia mutua*, *P. trivialis*, *Ulomyia fuliginosa*. **48 –** *Pneumia mutua*, *Ulomyia plumata* [CR]. **49 –** *Clytocerus ocellaris*, *Pneumia trivialis*. **50 –** *Threticus lucifugus*, *Chodopsycha lobata*, *Logima satchelli*, *Psychomora trinodulosa*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia plumata* [CR]. **51 –** *Threticus lucifugus*, *Logima albipennis*, *Psychoda phalaenoides*, *Pneumia trivialis*, *Ulomyia fuliginosa*. **52 –** *Ulomyia plumata* [CR]. **53 –** *Chodopsycha lobata*, *Logima satchelli*, *Saraiella rotunda* [CR]. **54 –** *Psycha grisescens*, *Clytocerus ocellaris*. **55 –** *Logima satchelli*, *Psychoda phalaenoides*. **56 –** *Ulomyia plumata* [CR], *U. vaseki* [EN]. **57 –** *Pneumia palustris*, *P. pilularia*, *P. trivialis*. **58 –** *Clytocerus ocellaris*, *Pneumia trivialis*. **59 –** *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia fuliginosa*. **60 –** *Chodopsycha lobata*, *Logima satchelli*. **61 –** *Pneumia mutua*, *Ulomyia fuliginosa*. **62 –** *Threticus lucifugus*, *Chodopsycha lobata*, *Logima satchelli*, *Psycha grisescens*, *Psychoda phalaenoides*, *Saraiella rotunda* [CR]. **63 –** *Pneumia mutua*, *Szaboiella hibernica* [CR], *Ulomyia fuliginosa*, *U. plumata* [CR]. **64 –** *Peripsychoda auriculata*, *Logima zetterstedti*, *Psychoda phalaenoides*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Ulomyia fuliginosa*. **65 –** *Clytocerus ocellaris*, *Pneumia trivialis*, *Ulomyia cognata*, *U. fuliginosa*. **66 –** *Pneumia plumicornis*, *Ulomyia fuliginosa*. **67 –** *Threticus lucifugus*, *Chodopsycha lobata*, *Logima zetterstedti*, *Psychoda phalaenoides*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Szaboiella hibernica* [CR], *Ulomyia fuliginosa*. **68 –** *Chodopsycha lobata*, *Logima albipennis*, *Psychoda phalaenoides*, *Psychodocha gemina*, *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia fuliginosa*. **69 –** *Sycorax bicornua* [CR], *S. tonnoiri* [CR], *Chodopsycha lobata*, *Logima zetterstedti*, *Psychodocha cinerea*, *P. gemina*, *Pneumia mutua*, *Szaboiella hibernica* [CR], *Ulomyia fuliginosa*, *U. plumata* [CR]. **70 –** *Trichopsychoda hirtella*, *Logima albipennis*, *L. satchelli*, *L. zetterstedti*, *Psychoda phalaenoides*, *Psychodocha gemina*. **71 –** *Parajungiella longicornis*, *Logima satchelli*, *Pneumia trivialis*. **72 –** *Threticus lucifugus*, *Berdeniella matthesi*, *B. stavniensis*, *Clytocerus ocellaris*, *Pericoma fallax*, *Pneumia trivialis*, *Saraiella rotunda* [CR]. **73 –** *Logima albipennis*, *L. satchelli*, *Psychoda phalaenoides*, *Psychomora trinodulosa*, *Ypsydocha setigera*, *Clytocerus ocellaris*, *Ulomyia fuliginosa*. **74 –** *Parajungiella ellisi* [CR], *Trichopsychoda hirtella*, *Copropsychoda brevicornis*, *Logima satchelli*, *Psychoda phalaenoides*, *Psychomora trinodulosa*, *Berdeniella vimmeri*, *Clytocerus ocellaris*, *Pneumia crispi* [EN], *Szaboiella hibernica* [CR], *Ulomyia fuliginosa*. **75 –** *Threticus lucifugus*, *Logima satchelli*, *Psychoda phalaenoides*, *Psychomora trinodulosa*, *Clytocerus ocellaris*, *Ulomyia fuliginosa*. **76 –** *Ulomyia fuliginosa*. **77 –** *Sycorax silacea*, *Threticus lucifugus*, *Psychodocha gemina*, *Clytocerus ocellaris*, *Pneumia mutua*, *P. trivialis*, *Saraiella rotunda* [CR], *Szaboiella hibernica* [CR], *Tonnoiriella pulchra*, *Ulomyia cognata*, *U. fuliginosa*, *U. plumata* [CR]. **78 –** *Threticus lucifugus*, *Psychodocha gemina*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Ulomyia fuliginosa*. **79 –** *Threticus lucifugus*. **80 –** *Jungiella valachica*, *Parajungiella longicornis*, *Telmatoscopus gressicus*, *Logima albipennis*, *Berdeniella unispinosa*, *Pneumia mutua*, *P. trivialis*. **81 –** *Clytocerus ocellaris*, *Pneumia trivialis*. **82 –** *Clytocerus ocellaris*, *Pneumia trivialis*. **83 –** *Sycorax tonnoiri* [CR], *Pneumia mutua*, *Ulomyia plumata* [CR]. **84 –** *Psychodocha gemina*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia fuliginosa*. **85 –** *Pneumia trivialis*, *Ulomyia fuliginosa*, *U. plumata* [CR]. **86 –** *Pneumia pilularia*, *P. plumicornis*, *P. trivialis*, *Ulomyia fuliginosa*. **87 –** *Threticus lucifugus*, *Pericoma blandula*, *Pneumia trivialis*, *Ulomyia fuliginosa*. **88 –** *Pericoma fallax*. **89 –** *Threticus lucifugus*, *Psychoda phalaenoides*, *Psychodocha gemina*, *Ulomyia fuliginosa*, *U. plumata* [CR]. **90 –** *Logima albipennis*, *Ulomyia fuliginosa*. **91 –** *Threticus lucifugus*, *Logima albipennis*, *L. satchelli*, *Psychoda phalaenoides*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia cognata*, *U. fuliginosa*. **92 –** *Psychoda phalaenoides*, *Psychodocha cinerea*, *P. gemina*, *Clytocerus ocellaris*, *Ulomyia plumata* [CR]. **93 –** *Philosepedon balkanicum* [CR], *Threticus lucifugus*, *Berdeniella unispinosa*, *Pneumia trivialis*, *Szaboiella hibernica* [CR], *Ulomyia cognata*, *U. fuliginosa*, *U. plumata* [CR]. **94 –** *Threticus lucifugus*, *Psychodocha cinerea*, *P. gemina*, *Berdeniella unispinosa*, *B. vimmeri*, *Ulomyia cognata*, *U. fuliginosa*. **95 –** *Pneumia trivialis*, *Ulomyia fuliginosa*. **96 –** *Chodopsycha lobata*, *Logima satchelli*, *Psychoda phalaenoides*, *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia plumata* [CR]. **97 –** *Psycha grisescens*. **98 –** *Threticus silvaticus* [VU], *Chodopsycha lobata*, *Logima satchelli*, *Psycha grisescens*, *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia cognata*. **99 –** *Chodopsycha lobata*, *Logima albipennis*, *L. satchelli*, *L. zetterstedti*, *Psychomora trinodulosa*, *Tinearia alternata*,

Fig. 45. Aerial view of the Orlické hory Mts.; note the meander of the Bělá river in the Antoníino údolí valley. Photo Jan Mocek.

Fig. 46. Bukačka NNR; characteristic beech forest of the central ridge in the Orlické hory PLA. Photo Josef Hájek.

Fig. 47. Bukačka NNR; wet mountain slopes of the Horní louka meadow with more than 240 recorded species of macrophytes. Photo Josef Hájek.

Fig. 48. Rašeliniště Kačerov NR peatbog; growth of *Menyanthes trifoliata* L.; with 28 species of moth flies recorded. Photo Josef Hájek.

Fig. 49. Trčkov NNR; beech-fir wood; pyramidal trap installed on a decayed fir stump. Photo Josef Hájek.

Fig. 50. Velká louka NM meadow, environs of Trčkov; shothole pool. Photo Josef Hájek.

Fig. 51. Zemská brána; canyon of the Divoká Orlice river; overhanging boughs are suitable for sweeping of moth flies. Photo Josef Hájek.

Fig. 52. Bohdanečský rybník and rybník Matka ponds NNR (Mlýny), environs of Lázně Bohdaneč; drain and swamps, locality of *Parajungiella bohdanecensis* sp. nov., Malaise trap. Photo Romana Prausová.

Ypsydocha setigera, *Clytocerus ocellaris*, *Pneumia mutua*, *P. trivialis*, *Tonnoiriella pulchra*, *Ulomyia fuliginosa*. **100 –** *Threticus lucifugus*, *T. silvaticus* [VU], *Clytocerus ocellaris*, *Pneumia pilularia*, *P. trivialis*, *Tonnoiriella nigricauda* [CR], *T. pulchra*, *Ulomyia fuliginosa*. **101 –** *Chodopsycha lobata*, *Logima satchelli*, *Psycha grisescens*, *Psychoda phalaenoides*, *Pneumia mutua*, *Ulomyia vaseki* [EN]. **102 –** *Peripsychoda auriculata*, *Clytocerus ocellaris*, *Pneumia nubila*, *P. trivialis*, *Tonnoiriella nigricauda* [CR]. **103 –** *Pneumia pilularia*, *P. trivialis*, *Tonnoiriella pulchra*, *Ulomyia fuliginosa*. **104 –** *Logima albipennis*, *Psychoda phalaenoides*, *Psychomora trinodulosa*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Ulomyia cognata*. **105 –** *Logima zetterstedti*, *Psycha grisescens*, *Berdeniella matthesi*, *Saraiella rotunda* [CR], *Ulomyia fuliginosa*. **106 –** *Logima albipennis*, *Psychoda phalaenoides*, *Psychomora trinodulosa*, *Ypsydocha setigera*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Ulomyia annulata annulata*, *U. cognata*, *U. fuliginosa*. **107 –** *Threticus lucifugus*, *Logima satchelli*, *Psycha grisescens*, *Psychoda phalaenoides*, *Clytocerus ocellaris*, *Pneumia mutua*, *P. trivialis*, *Berdeniella matthesi*, *Saraiella rotunda* [CR], *Szaboiella hibernica* [CR], *Ulomyia fuliginosa*, *U. plumata* [CR]. **108 –** *Chodopsycha lobata*, *Logima satchelli*, *Psychoda phalaenoides*, *Psychomora trinodulosa*, *Pericoma fallax*, *Pneumia nubila*, *P. trivialis*. **109 –** *Berdeniella unispinosa*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Ulomyia plumata* [CR]. **110** – *Threticus silvaticus* [VU], *Logima satchelli*, *Pneumia mutua*, *Ulomyia plumata* [CR]. **111 –** *Threticus lucifugus*, *Logima satchelli, Psychoda phalaenoides*, *Pneumia trivialis*, *Saraiella rotunda* [CR]. **112 –** *Psycha grisescens*, *Pneumia trivialis*. **113 –** *Logima satchelli*, *Psychoda phalaenoides*, *Ulomyia vaseki* [EN]. **114 –** *Szaboiella hibernica* [CR], *Ulomyia plumata* [CR]. **115 –** *Copropsychoda brevicornis*, *Psychoda phalaenoides*, *Pneumia trivialis*. **116 –** *Saraiella rotunda* [CR]. **117 –** *Pneumia trivialis*. **118 –** *Threticus lucifugus, Chodopsycha lobata, Logima albipennis, Psychoda phalaenoides, Clytocerus ocellaris*, *C. splendidus* sp. nov. [NS], *Pneumia trivialis*, *Saraiella rotunda* [CR], *Ulomyia fuliginosa*. **119 –** *Sycorax silacea*, *S. tonnoiri* [CR], *Lepiseodina rothschildi* [NS], *Telmatoscopus hajeki* [VU], *Threticus lucifugus*, *Chodopsycha*

lobata, *Logima albipennis*, *L. satchelli*, *L. zetterstedti*, *Psycha grisescens*, *Psychoda phalaenoides*, *Psychodocha cinerea*, *P. gemina*, *P. itoco* [NS], *Psychodula minuta*, *Psychomora trinodulosa*, *Tinearia alternata*, *Ypsydocha setigera*, *Berdeniella matthesi*, *B. stavniensis*, *Clytocerus ocellaris*, *C. rivosus* [CR], *Pneumia mutua*, *P. plumicornis*, *P. trivialis*, *Saraiella rotunda* [CR], *Szaboiella hibernica* [CR], *Ulomyia fuliginosa*, *U. plumata* [CR]. **120 –** *Paramormia polyascoidea*, *Pneumia nubila*, *Tonnoiriella nigricauda* [CR], *Ulomyia fuliginosa*. **121 –** *Clytocerus ocellaris*, *Pneumia trivialis*. **122 –** *Ulomyia plumata* [CR], *U. vaseki* [EN]. **123 –** *Pneumia trivialis*, *Ulomyia plumata* [CR]. **124 –** *Psycha grisescens*. **125 –** *Threticus lucifugus*, *T. silvaticus* [VU], *Logima albipennis*, *Psychomora trinodulosa*, *Clytocerus ocellaris*, *C. rivosus* [CR], *Pneumia trivialis*, *Ulomyia cognata*, *U. fuliginosa*. **126 –** *Psychoda phalaenoides*, *Clytocerus ocellaris*, *Pneumia trivialis*. **127 –** *Logima albipennis*, *L. satchelli*, *Pneumia trivialis*, *Ulomyia fuliginosa*. **128 –** *Trichopsychoda hirtella*, *Chodopsycha lobata*, *Logima albipennis*, *L. satchelli*, *Psychoda phalaenoides*, *Berdeniella unispinosa*, *Clytocerus ocellaris*, *Pneumia trivialis*, *Ulomyia fuliginosa*. **129 –** *Pneumia mutua*, *Ulomyia plumata* [CR]. **130 –** *Logima satchelli*, *Psychoda phalaenoides*, *Psychodocha gemina*, *Psychomora trinodulosa*, *Pneumia nubila*, *P. trivialis*. **131 –** *Psycha grisescens*, *Psychodula minuta*, *Tinearia alternata*, *Pneumia trivialis*, *Saraiella rotunda* [CR]. **132 –** *Threticus lucifugus*, *Chodopsycha lobata*, *Logima albipennis*, *L. satchelli*, *Pneumia plumicornis*, *P. trivialis*, *Ulomyia cognata*, *U. fuliginosa*. **133 –** *Philosepedon balkanicum* [CR], *Psycha grisescens*, *Psychodocha cinerea*. **134 –** *Threticus lucifugus*, *T. silvaticus* [VU], *Logima satchelli*, *Pneumia nubila*, *P. plumicornis*, *P. trivialis*, *Saraiella rotunda* [CR]. **135 –** *Psycha grisescens*, *Berdeniella matthesi*, *Saraiella rotunda* [CR]. **136 –** *Chodopsycha lobata*, *Berdeniella manicata*, *Pericoma fallax*, *Pneumia trivialis*. **137 –** *Logima zetterstedti*, *Pneumia mutua*, *P. trivialis*, *Ulomyia fuliginosa*, *U. plumata* [CR]. **138 –** *Threticus lucifugus*, *Clytocerus ocellaris*, *Pneumia plumicornis*, *P. trivialis*, *Saraiella rotunda* [CR], *Ulomyia fuliginosa*. **139 –** *Threticus lucifugus*, *Psychodocha gemina*, *Clytocerus ocellaris*, *Pneumia plumicornis*, *P. trivialis*, *Ulomyia fuliginosa*, *U. plumata* [CR]. **140 –** *Threticus silvaticus* [VU], *Chodopsycha lobata*, *Logima erminea*, *Psychoda phalaenoides*.

Additional localities (not mapped)

141 – Horní Lipka, environs of Králíky (*Logima albipennis*, *Psycha grisescens*, *Psychoda phalaenoides*, *Tinearia alternata*, *Szaboiella hibernica* [CR]). **142 –** Lázně Bohdaneč NW of Pardubice (*Parajungiella bohdanecensis* sp. nov. [NS], *Tinearia lativentris*). **143 –** Mělčany near Dobruška (*Psychoda crassipennis*, *Clytocerus splendidus* sp. nov. [NS]). **144 –** Víska, 1 km NW of Svinecký Dvůr (*Logima albipennis*, *L. zetterstedti*, *Psychodocha gemina*). **145 –** Zbytka, game reserve between Pohoří and České Meziříčí near Opočno (*Peripsychoda zbytka* [NS], *Clytocerus splendidus* sp. nov. [NS]).

Discussion

Altogether 66 species of moth flies (Psychodidae) have been found in the Orlické hory PLA and the adjacent Českomoravské mezihoří area. This represents 44 % of psychodid species occurring in the Czech Republic (Ježek 2006c). The moth flies of this territory represent montane taxa as well as Sub-Mediterranean and Transcaucasian elements, being mostly a combination of European, European – West-Siberian, Eurasian, Palaearctic, Holarctic and cosmopolitan species. Most of them are generally European in distribution (43 species, 65.2 %), although some are known only from Central Europe (six species, i.e. 9.1 %, including *Parajungiella bohdanecensis* sp. nov. and *Clytocerus splendidus* sp. nov.). They are followed by six European – West-Siberian species (9.1 %), six Holarctic species (9.1 %), five Palaearctic species (7.7 %), four cosmopolitan species (6.1 %), one Sub-Mediterranean species (1.5 %), and one Eurasian species (1.5 %). The distribution of nine European and European – West-Siberian species also reaches North Africa, Transcaucasia, and Tajikistan.

Fifteen species found in the studied area were included in the Red list of Czech invertebrates (Ježek 2005). Ten species were classified as critically endangered (*Sycorax bicornua*,

S. tonnoiri, *Parajungiella ellisi*, *P. pseudolongicornis*, *Philosepedon balkanicum*, *Clytocerus rivosus*, *Saraiella rotunda*, *Szaboiella hibernica*, *Tonnoiriella nigricauda*, and *Ulomyia plumata*); three species as endangered (*Pericoma calcilega*, *Pneumia crispi*, and *Ulomyia vaseki*); and two species as vulnerable (*Threticus silvaticus* and *Telmatoscopus hajeki*). The conservation status could not be assessed for the following five species: *Lepiseodina rothschildi*, *Parajungiella bohdanecensis* sp. nov., *Peripsychoda zbytka*, *Psychodocha itoco*, and *Clytocerus splendidus* sp. nov.

Pneumia trivialis was the most frequently collected species in the study area (83 localities), followed by *Ulomyia fuliginosa* (65 localities) and *Clytocerus ocellaris* with 48 records. On the other hand, 18 species were collected at only one locality. The highest number of psychodid species was found in Trčkov NNR [119] with 29 species, followed by Rašeliniště Kačerov NR peatbog [42] with 28 species as well as Rašeliniště pod Předním vrchem peatbog at Bartošovice v Orlických horách [2] with 19 species and Bukačka NNR [7] with 17 species. A single psychodid species was collected at 14 localities. Some of the collected species are known from a very limited area (only a few countries) and are generally very rare: *Sycorax bicornua*, *Lepiseodina rothschildi*, *Parajungiella consors*, *P. ellisi*, *P. pseudolongicornis*, *Philosepedon balkanicum*, *Psychoda crassipennis*, *Psychodocha itoco*, *Pneumia crispi*, *Ulomyia plumata*, and *U. vaseki*. In addition, some have not been found elsewhere in the Czech Republic: *Lepiseodina rothschildi* and *Telmatoscopus hajeki* (both Trčkov NNR), *Peripsychoda zbytka* (wildlife reserve Zbytka between Pohoří and České Meziříčí in the environs of Opočno).

The following species (mostly with aquatic larvae) are probably characteristic for montane biotopes: *Telmatoscopus hajeki*, *Saraiella rotunda*, *Szaboiella hibernica*, *Pneumia plumicornis*, *Ulomyia plumata*, and *U. vaseki.* The latter species reaches its northern limit in the Hercynicum and passes through the Carpathians to the Alps. Many localities (71, i.e. 49 %) are important from the perspective of nature conservation. The most valuable localities are Trčkov NNR [119] and Bukačka NNR [7], which harbour species from at least three conservation categories (CR, EN, VU or NS). Critically endangered (CR) species occur at 64 localities, of which 11 have two CR taxa [5, 10, 13, 15, 44, 50, 63, 74, 83, 96, 114], four host three CR taxa [2, 77, 93, 107], two with four CR taxa [42, 69] and one with five CR species [19]. Endangered (EN) species occur at eight localities, of which one has two EN taxa [36].

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Appendix (Erratum)

The following two paragraphs on *Pneumia nubila* (Meigen, 1818) and *P. palustris* (Meigen, 1804) were omitted in the text by printer's error in Ježek (2004b):

***Pneumia nubila* (Meigen, 1818)** – seven males

Abkhazia, West Caucasus, Akhalsheni – Sukhum. GES, 3.8.1988, rocky forest way, *Urtica*, *Sambucus*; ditto, Atshigvara nr. Gali, 6.8.1988, muddy brook, tea plantations, *Alnus*, *Polygonum*, *Pteris*, *Rubus*; ditto, Cebelda, 4.8.1988, swampy meadows, *Alnus*, *Rubus*, *Scirpus*, *Typha*, *Lythrum*; ditto, Cimuri env. Sukhumi, river Vost. Gumista, 13.8.1985, wet rocky wall, spring, protected area, *Alnus*, *Carpinus*, *Rhododendron*, *Hedera*, Musci; ditto, Pskhu, 26.7.1988, swampy slope, *Alnus*, *Corylus*, *Sambucus*, *Fragaria*, Marchantiopsida, Musci; ditto, 28.7.1988, springs shaded by *Juglans*; ditto, 29.7.1988, swamps, inundation area of the Bzyb river, *Alnus*, *Mentha*. All Ježek leg., slides Cat. No. 34001 – 34007, INS 1377, 2568, 2598, 2601, 2610, 2613 and 2620. Distribution: Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Canary Islands, Czech Republic, Denmark, Finland, France, Georgia (Transcaucasia), Germany, Great Britain, Greece, Hungary, Ireland, Italy, Luxemburg, Macedonia, Montenegro, the Netherlands, Poland, Romania, Sardinia, Serbia, Slovakia, Slovenia, Spain, Sweden, and Switzerland. New to the fauna of Abkhazia.

***Pneumia palustris* (Meigen, 1804)** – four males

Abkhazia, West Caucasus, Pskhu, 26.7.1988, slope spring area, *Alnus*, *Corylus*, *Sambucus*, *Fragaria*, Marchantiopsida, Musci; ditto, 29.7.1988, swamps, inundation area of the Bzyb river, *Alnus*, *Mentha.* All Ježek leg., slides Cat. No. 34008 and 34009, INS 2618 and 2622. Albania, Libohovë (SE of Gjirokastër), 6.10.1992; ditto, Pukë, 3.10.1992; all Chvojka leg., slides Cat. No. 34010 and 34011, INS 8251 and 8258. Distribution: Austria, Belgium, Bosnia and Herzegovina, Canary Islands, Corsica, Crete, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Macedonia, the Netherlands, Poland, Romania, Serbia, Slovenia, Sweden, and Turkey. New to Abkhazia and Albania.