

Original research paper

Macrofungi of the Bieszczady Mountains

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Abstract

The Bieszczady Mts – a mountain range in SE Poland is a hot spot of fungal richness and diversity in Poland. This paper summarizes 5 years of studies in the Bieszczady Mts, as well as previously published research. A total of 1377 macromycetes taxa were found, including many (464) which were protected, red-listed, or very rare in Poland. Thirty-eight taxa (9 Ascomycota and 29 Basidiomycota) have been reported in Poland for the first time: *Agrocybe gibberosa*, *Auriporia aurulenta*, *Bolbitius variicolor*, *Bulgariella pulla*, *Chaetosphaerella phaeostroma*, *Clitocybe subspadicea*, *Clitopilus passeckerianus*, *Cortinarius anomalus* var. *subcaligatus*, *C. fervidus*, *C. flexipes* var. *inolens*, *C. sylvae-norvegicae*, *Cudoniella tenuispora*, *Entoloma bisporigerum*, *E. olorinum*, *E. poliopus* var. *parvisporigerum*, *E. sericeoides*, *Galerina caulocystidiata*, *Gymnopilus josserandii*, *Hymenoscyphus subferrugineus*, *Hypholoma olivaceotinctum*, *Inocybe queletii*, *Laccaria altaica*, *Lactarius romagnesii*, *L. rostratus*, *Mycena epipterygia* var. *atroviscosa*, *M. epipterygia* var. *candida*,

M. polygramma f. *candida*, *Octavianina lutea*, *O. mutabilis*, *Pachyella violaceonigra*, *Panaeolus papilionaceus* var. *capitatocystis*, *Phaeocollybia jennyae*, *Psathyrella almerensis*, *Pyrenopeziza inornata*, *Scutellinia torrentis*, *Tricholoma basirubens*, *Tricholomopsis flammula*, *Vibrissea decolorans*. For all new taxa, short descriptions based on the collected material have been provided.

Key words: Bieszczady National Park, Ascomycota, Basidiomycota, diversity

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Introduction

Study area

The Bieszczady Mts are a mountain range located in Poland, Slovakia and Ukraine making up the western part of the Outer Eastern Carpathians. They are part of the Beskidy Mts, a series of the mountain ranges lying between the Czech Republic and Ukraine. The Polish Bieszczady Mts are classified as the Western Bieszczady Mts and are part of the mesoregion of the Beskidy Lesiste located in the eastern part of Podkarpackie Province [1,2]. The Polish part of this range occupies an area of ca. 1450 km² and is bounded by Polish-Ukrainian and Polish-Slovakian borders in the south and east respectively; the Łupkowska Pass, Osława valley, and the road between Szczawne and Czaszyn in the west; and by the Leskie Foothills, the river San valley, and the line connecting N shore of the Victorini bay and the borderland village Michniowiec in the north (Fig. 1). This definition of the Bieszczady Mts also includes the Otryt and Ostre ranges. It is worth noting that the legend of “the wild Bieszczady” is still alive in Poland; therefore, many adjacent regions are often called “the Bieszczady Mts” (e.g. the Sanocko-Turczańskie Mts, the Słonne Mts or the Przemyskie

Foothills) for mainly commercial reasons. This misconception is reproduced in many books, scientific papers, websites, touristic folders or popular tourist guides; however, these areas are not a part of the Bieszczady Mts in terms of geology and physio-geography. The topography of the Bieszczady Mts has a characteristic system of straight ridges arranged from NW to SE, separated by deep valleys. The highest peak is Tarnica Mt (1346 m asl), while the maximal denivelation is 700 m. The hydrological network is dense with numerous springs. Unlike the other parts of Polish Carpatians, the Bieszczady Mts contain a high concentration of raised bogs, located mainly in the San and Wołosate valleys [1,3,4].

Approximately 80% of the Bieszczady Mts are covered by forests. The most widespread are beech forests (*Dentario glandulosae-Fagetum*, *Luzulo nemorosae-Fagetum*), growing between the foothill and lower montane zones (Fig. 2). The stream valleys and seeps are covered by alder forests (*Caltho-Alnetum*, *Alnetum incanae*; Fig. 3). Communities with sycamore dominate (*Sorbo-Aceretum carpaticum*, *Lunario-Aceretum*, *Phyllitido-Aceretum*, *Aceri-Fagetum*) the upper montane zone, boulders and rock outcroppings often at the upper forest margins, northern shady slopes and deep valleys. In bogs and wet meadows, miscellaneous damp shrubs and forests occur, e.g. *Salicetum pentandro-cinereae*, *Vaccinio uliginosi-Pinetum*, *Vaccinio uliginosi-Betuletum pubescentis* or *Sphagno-Piceetum*. Natural coniferous mountain forests (*Abieti-Piceetum montanum*) are rare; however, artificial spruce and fir forests are quite common, e.g. in the upper San valley. A unique feature for the Bieszczady Mts are the shrub communities with green alder (Fig. 4), *Athyrio distentifoliae-Sorbetum alnetosum viridae*, *Pulmonario filarszkyanae-Alnetum viridis*, *Calamagrostis-Alnus viridis*, or *Salix silesiaca-Alnus viridis* in subalpine areas. Hornbeam forests are rare and represented only by *Tilio-Carpinetum*; additionally, common alder communities are extremely rare. The non-forest plant communities in the Bieszczady Mts were strongly influenced by the pasturage of sheep, goats, and horses in the past. Shepherding has resulted

in the formation of unique landforms in the subalpine zone (above 1200 m asl), called polonynas (*pol.* połoniny; Fig. 5), which are characteristic of the Eastern Beskidy Mts. Over 40 plant communities have been described in the subalpine zone of the Polish Bieszczady Mts. In the lower montane zone over 50 types of non-forest plant communities are present. Of these, raised bogs (*Oxycocco-Sphagnetea*; Fig. 6), poor fens (*Scheuchzerio-Caricetea*), and poor meadows with *Nardus stricta* are the most valuable [3,5].

The soils of the Bieszczady Mts are similar to those of the Carpathian Flysch Belt. The most common soils are eutrophic and dystrophic loamy brown earths (cambisols), shallow initial soils (leptosols, regosols), and soils characteristic of moist habitats, such as river banks (fluviosols), bogs (histosols), or meadows (gleysols) [3]. From a mycological point of view the major soil characteristic influencing the fungal diversity is their pH. The soils of Bieszczady Mts are, in general, acidic or neutral (pH = 5.5–7.0 in water) with low concentrations of carbonate (Ca(Mg)CO_3). This limits the number of fungal taxa, e.g. the calciphilous species of hypogeous or boletoid fungi do not occur in Bieszczady Mts.

Due to their unique character, and natural and cultural value the Bieszczady Mts are protected. Over 290 km² are protected as the Bieszczady National Park (BdPN). Established in 1973, it has since been expanded a few times and is the third largest national park in Poland. The BdPN buffer zone is over 520 km². BdPN covers the most valuable parts of the Polish Bieszczady Mts. In 1992, the East Carpathian Biosphere Reserve was established by the UNESCO. It is a transboundary protection project that includes parts of Poland, Ukraine and Slovakia. The entire Polish section is located in the Bieszczady Mts and is almost 1,090 km² large. It includes the BdPN and two landscape parks: Ciśniańsko-Wetliński Landscape Park and San Valley Landscape Park. The Bieszczady Mts are also protected as two Natura 2000 areas: Special Protection Area (Bieszczady SPA, PLC180001) and part of the Basin of the Upper San Special Area of Conservation (PLH180021) [6,7]. Fourteen natural reserves

have been established in the vicinity of the Bieszczady Mts: Cisy na Górze Jawor, Gołoborze, Hulskie im. prof. Stefana Myczkowskiego, Krywe, Nad Jeziorem Myczkowieckim, Olsza kosa w Stężnicy, Olszyna Łęgowa w Kalnicy, Przełom Oślawy pod Duszatynem, Przełom Sanu pod Grodziskiem, Sine Wiry, Śnieżyca wiosenna w Dwerniczku, Woronikówka, Zakole and Zwieżło [6,8]. Moreover, 7 landscape-nature complexes (Wieś Krywe, Młyn w Hulskim, Cerkiew w Hulskim, Cmentarz w Ruskiem, Młyn w Dwerniku, Wieś Smolnik, Cmentarz w Stuposianach) and 44 ecological sites have been established in the Bieszczady Mts [7].

Current state of mycological studies in the Bieszczady Mts

Highly diverse habitats and their largely natural character results an above average macromycete richness. The first mycological data from the Bieszczady Mts were published by Gumińska as a result of an eleven-day trip of Polish mycologists (S. Czyżewska, S. Domański, B. Gumińska, M. Lisiewska, A. Nespiak, A. Skirgiełło and W. Truszkowska) to the mountain range, in the vicinity of the village Wetlina [9]. The interesting results obtained from this trip inspired further studies by a group of scientists from various academic centers and specializing in different systematic groups. T. Majewski and W. Wojewoda joined the previous participants. Three excursions were made between 1960 and 1970 and their findings were published in four papers [10-13]. A preliminary red list of macromycetes of the Polish Carpathians was published in 1991 while a checklist of the corticioid fungi of this region was published in 1999 [14,15]. Both were based on earlier published data including those from the Bieszczady Mts. No further systematic mycological studies were conducted in the area of the Bieszczady Mts until 2008; however, some data have been published in many chorological or taxonomic papers and monographs (see references list). In 2008, Gierczyk and co-workers started a five-year study of the mycobiota of the Bieszczady Mts. The first results (together with all available literature data) were published in 2009 [16]. In 2011 a protection plan for the BdPN was prepared by Kujawa et al.; however, it was not published. A short description

of the characteristics of the mycobiota of the BdPN was prepared and published in the monograph on 40th anniversary of the Park [17]. Selected results from this study have also been published by the participants of this project in papers on particular species or systematic groups [18-27]. Some species from the Bieszczady Mts have also been reported in the internet Database of Protected and Endangered Fungi (GREJ), e.g. [28-34]. The diversity of lichenized or lichenicolous macromycetous fungal species (*Lichenomphalia*, *Multiclavula*, *Tremella*) have also been published in papers and monographs on the Bieszczady Mts lichen biota [35-42]. In last few years, two forestry science reports were published, containing lists of the observed fungi [43,44].

In the current paper all available data on the Bieszczady Mts mycobiota have been reviewed and published, including the published reports and the authors' unpublished data.

Material and methods

Route studies were performed from 2008 to 2013. Every year, 3–5 weeks were devoted to exploration. Almost all types of habitats characteristic of the Bieszczady Mts were checked each season. The specimens collected were identified by standard methods used in fungal taxonomy, i.e. determination of micro- and macrocharacters using a binocular or optical microscopy. Standard staining techniques, including an aqueous ammonia solution, 10% KOH in water, Congo Red in ammonia, Melzer reagent, sulfovanilin, Aniline (Cotton) Blue in lactophenol or lactic acid, Brilliant Cresyl Blue in water, acetocarmine, or carbol fuchsine, were used. Macrochemical reaction tests included aqueous ammonia solution, 10% KOH in water, FeSO₄ in water, and guaiac resin in ethanol. Specimens were identified using the following general keys and atlases: Funga Nordica [45,46], Nordic Macromycetes [47-49], Flora Agaricina Neerlandica [50-55], Röhrlinge und Blätterpilze in Europa [56], Die

Nichtblätterpilze, Gallertpilze und Bauchpilze [57], Fungi of Switzerland [58-63], Pilzkompendium [64-71], and Microfungi on land plants [72]. The following monographs and taxonomic papers were also used: *Agaricus* [73-75], *Amanita* [76,77], *Conocybe* and *Pholiotina* [78], *Crepidotus* [79], *Entoloma* [80,81], *Galerina* [82-85], *Gymnopilus* [86], *Helvella* [87], *Hemimycena* and *Xeromphalina* [88], *Hygrophorus* and *Hygrocybe* [89-91], *Inocybe* [92,93], *Lactarius* [94,95], *Peziza* [96], *Ramaria* [97], *Russula* [98,99], *Scutellinia* [100], *Tricholoma* [101,102], Boletales [103,104], Geoglossaceae [105-107], Strophariaceae [108,109], clavarioid fungi [110,111], jelly fungi [112,113], marasmioid fungi [114], hypogeous fungi [115] and gasteromycetes [116]. Ascomycota were also determined based on the keys, iconography, and descriptions provided in a CD edition by Baral [117]. Taxa names follow *Funga Nordica* 2 [46] (except for a few taxa, as indicated in the species list) when available, otherwise names from the MycoBank Database [118] are used. The macrofungi group has been arbitrarily delimited as species forming sporocarps (basidiomata, ascomata) and stromata visible to the naked eye. In general this overlaps with the concept accepted by the authors of *Nordic Macromycetes* [47-49], *Funga Nordica* [46] and *Fungi of Switzerland* [58-63], i.e. representatives of Boliniales, Chaetosphaeriales, Diaporthales, Hypocreales, Pleosporales, Rhytismatales, Sordariales, Taphrinales, Trichosphaeriales, and Xylariales. The checklist by Mirek et al. [119] has been used for the names of flowering plants and pteridophytes, while the checklist by Ochyra et al. [120] was used for the names of mosses. The distribution of species in Poland have been compiled based on checklists of Polish micro- and macromycetes [121-123], lichens and lichenicolous fungi [124,125], and the database of Polish mycological literature [126]. The threat categories were assigned according to “Red list of macrofungi in Poland” [127] and the protected species were indicated according to the Ministry of the Environment regulation from 2014 [128]. Dry specimens have been deposited in the Błażej Gierczyk private fungarium and the Fungarium of the Division of Mycology and

Forest Phytopathology, Warsaw University of Life Sciences – SGGW (WAML). Geographic names from the touristic-toponymic map by Krukar [129] have been used.

Results

The complete list of macrofungi species found by the authors in the Bieszczady Mts, together with the associated literature data has been supplied as Supportive Material (Appendix 1). Data is presented according to the following scheme: **species name; threat category, species protection; LR:** literature data (with synonymous names used by cited authors); **PP:** data included in the Bieszczady National Park Protection Plan (2011, unpublished); **UP:** unpublished data from the years 2008–2013. **Notes:** Additional information and comments (doubts, misconceptions, errors etc.); description of the taxa new to Poland.

For **PP** and **UP** records, localities, phenological information, habitats, and substrata have been reported. In the **LR** section, the paper by Gierczyk et al. [16] has been cited only if this paper provided original data.

Discussion

The available literature on the fungal diversity in the Polish Bieszczady Mts has been reviewed and the new data collected by the authors in the years 2008–2015 is presented. The current list of macrofungi species identified in the Bieszczady Mts includes 1,377 species, subspecies, varieties and forms: 235 taxa of Ascomycota and 1,142 taxa of Basidiomycota (in Bieszczady National Park 1206 species: 196 of Ascomycota and 1,010 of Basidiomycota) comprising 30% of the total number of macromycetes known in Poland. A further 71 taxa are

supported by dubious data (16 Ascomycota and 55 Basidiomycota). The number of taxa from Bieszczady NP listed by Kujawa [130] is higher (1,304), because it includes some unpublished data on corticioid fungi collected by Dariusz Karasiński and some dubious data. This mycobiota richness makes the Bieszczady Mts the third richest region in macrofungi in Poland, after Białowieża Primeval forest (*ca.* 2,000 known taxa) [131] and Kampinos NP (*ca.* 1,600 taxa) [132]. In comparison, 1,233 taxa of macrofungi have been reported from Slovakian Poloniny National Park [133-135]. Unfortunately, the mycological data for Uzhanian National Park (Ukraine) are not available. The official website of the Nature Reserve Fund of Ukraine mentions a total of 66 fungal species from Uzhanian National Park [136]. Many taxa recorded in the Bieszczady Mts are very valuable (Table 1). Four species (*Hericium erinaceum*, *Hydnellum conrescens*, *Corticium polygonioides* and *Skeletocutis odora*) are strictly protected and another 14 (*Bondarzewia mesenterica*, *Clavariadelphus pistillaris*, *Gomphus clavatus*, *Hericium alpestre*, *H. coralloides*, *Inonotus obliquus*, *Morchella conica*, *M. esculenta*, *Ptychoverpa bohemica*, *Sparassis brevipes*, *Strobilomyces strobilaceus*, *Tremiscus helvelloides*, *Verpa conica*, and *Xerocomus pelletieri*) are partially protected in Poland. Two hundred and ninety taxa recorded in the Bieszczady Mts are red-listed comprising 30% of all species in the Polish red list. In the current paper 319 taxa not previously known to be present in the Bieszczady Mts are reported. They include 38 taxa (9 Ascomycota and 29 Basidiomycota) hitherto not known in Poland: *Agrocybe gibberosa*, *Auriporia aurulenta* (Fig. 7), *Bolbitius variicolor*, *Bulgariella pulla* (Fig. 8), *Chaetosphaerella phaeostroma*, *Clitocybe subspadicea*, *Clitopilus passeckerianus* (Fig. 9), *Cortinarius anomalus* var. *subcaligatus*, *C. fervidus*, *C. flexipes* var. *inolens*, *C. sylvaenorvegicae*, *Cudoniella tenuispora* (Fig. 10), *Entoloma bisporigerum*, *E. olorinum*, *E. poliopus* var. *parvisporigerum*, *E. sericeoides*, *Galerina caulocystidiata*, *Gymnopilus josserandii*, *Hymenoscyphus subferrugineus*, *Hypholoma olivaceotinctum*, *Inocybe queletii*,

Laccaria altaica, *Lactarius romagnesii*, *L. rostratus*, *Mycena epipterygia* var. *atroviscosa*, *M. epipterygia* var. *candida*, *M. polygramma* f. *candida*, *Octavianina lutea*, *O. mutabilis* (Fig. 11), *Pachyella violaceonigra*, *Panaeolus papilionaceus* var. *capitatocystis*, *Phaeocollybia jennyae* (Fig. 12), *Psathyrella almerensis*, *Pyrenopeziza inornata*, *Scutellinia torrentis* (Fig. 13), *Tricholoma basirubens*, *Tricholomopsis flammula*, *Vibrissea decolorans* (Fig. 14). This makes Polish Bieszczady Mts a hotspot of fungal diversity, in both Poland and Europe. Sixteen taxa listed on the list of indicators of the nature value of beech forests in Europe [137] have been found in the Bieszczady Mts. This is higher than that reported for other beech forests of European importance including Poloniny National Park (Slovakia) [134,138] the forest with the hitherto highest value published (15). The number of the taxa designated as Species of Special Interest (SSI), which are selected from wood-inhabiting fungi in European beech forests [139], is also high (62). Reported values of this parameter for other beech forests in Europe are lower varying from 23 (Poloniny National Park, Slovakia) to 51 (UNESCO World Natural Heritage Kellerwald-Edersee National Park, Germany) [134]. Many SSI species observed in the Bieszczady Mts are common within this area, e.g. *Hericium coralloides* or *Dentipellis fragilis*. Many other taxa, selected by Slovakian mycologists as species of special interest during the study of beech forests in that country (e.g. *Antrodiella pallescens* or *Perenniporia narymica*) [140] have also been found in the Polish Bieszczady Mts. One should note, that the evaluation systems proposed by Christensen et al. [137] and Ódor et al. [139] were based on Western and Southern European data, therefore need to be tested and adjusted for Central European forest conditions. The Bieszczady Mts are the only place 77 taxa are found in Poland making it an important refuge of macrofungi. Another 114 taxa reported in the Bieszczady Mts are extremely rare in Poland and have only been found in three or fewer localities in this country. Its unique ecosystems (e.g. *Alnus viridis* communities or post-pasture habitats) must be protected to preserve the macrofungi richness of this

mountain range. The unusually high availability of forest biomass in the Bieszczady Mts region [141], the most important parameter determining the presence of many rare, wood-inhabiting fungi, should be especially emphasized. It is difficult to indicate the regions in the Bieszczady Mts with the highest mycological value. The most interesting findings have been made on the northern slopes, in humid stream valleys, e.g. Hylaty valley or Górna Solinka valley, and in places with high concentrations of large, dead tree trunks on the forest floor. One could expect further valuable findings, as many fungal groups (genera *Russula* and *Cortinarius*, corticioid and hypogeous fungi, small Ascomycota) are still undercollected and underrepresented on the current species lists. Moreover, although field work has been conducted throughout the Bieszczady Mts, the greatest emphasis has been placed on the study of the mycobiota of Bieszczady National Park. In consequence, the northern and western parts of the Bieszczady Mts have only been cursorily studied. Analysis of data on the Poloniny NP has showed, that 462 species of macrofungi known from the Slovakian part of the Eastern Carpathians have been not yet observed in the Bieszczady Mts. Some of these, for example fungi inhabiting old oak trees and logs (e.g. *Buglossoporus pulvinus*), are unlikely to be collected in the Bieszczady Mts due to the absence of suitable habitats and substratum; however, most of these 462 taxa probably also grow on the Polish side of the border. Almost 1,840 macrofungi taxa are known from the Polish and Slovakian parts of the East Carpathian Biosphere Reserve.

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Authors' contribution

Błażej Gierczyk – field research, identification of the specimens, manuscript preparation;

Anna Kujawa – field research, identification of the specimens, correction of the manuscript;

Andrzej Szczepkowski – field research, identification of the specimens, correction of the manuscript;

Tomasz Ślusarczyk – field research, identification of the specimens, correction of the manuscript;

Tomasz Pachlewski – field research, photographic documentation;

Piotr Chachuła – field research, identification of the specimens, correction of the manuscript;

Grażyna Domian – field research, photographic documentation, correction of the manuscript.

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Table 1. Rare, protected and red-listed macrofungi in the Bieszczady Mts

	Ascomycota	Basidiomycota	Total
Strictly protected species	0	4	4
Partially protected species	5	9	14
Redlisted species	15	275	290
category Ex	0	4	4
category E	1	82	83
category V	4	63	67
category R	10	115	125
category I	0	11	11
Taxa rare in Poland (known from up to three contemporary localities)	44	147	191
Taxa known in Poland only from the Bieszczady Mts	20	57	77
Taxa with <i>locus classicus</i> in the Bieszczady Mts	0	2	2
Taxa not mentioned Polish on checklists of fungi	18	139	157
Indicator species of nature value of beech forests follow on European scale [137]	0	16	16
Species of special interest [139]	3	59	62
class A	1	4	5
class B	0	29	29
class C	2	26	28

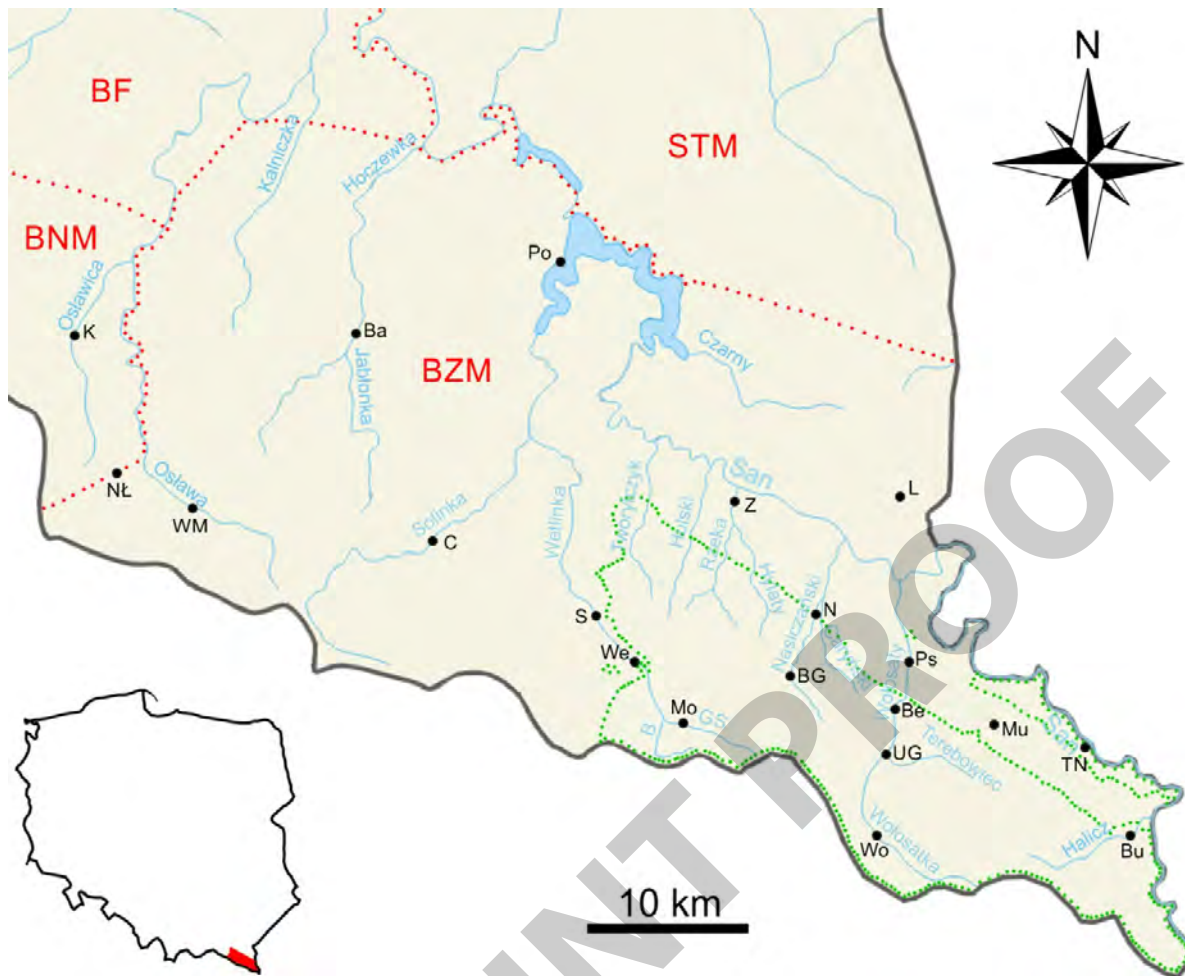


Fig. 1. Location of the area studied; borders of mesoregions (BZM – Bieszczady Zachodnie Mts, STM – Sanocko-Turczańskie Mts, BNM – Beskid Niski Mts, BF – Bukowskie Foothills); borders of the Bieszczady National Park; • – selected villages (Ba – Baligród, Be – Bereżki, BG – Brzegi Górne, Bu – Bukowiec, C – Cisna, K – Komańcza, L – Lutowiska, Mo – Moczarne, Mu – Muczne, NŁ – Nowy Łupków, Po – Polańczyk, Ps – Pszczeliny, S – Smerek, TN – Tarnawa Niżna, UG – Ustrzyki Górne, We – Wetlina, Wo – Wołosate, Z – Zatwarnica); — major rivers and streams (B – Beskidnik, GS – Górna Solinka)



Fig. 2. Carpathian beech forest (*Dentario glandulosae-Fagetum*) on the slopes of the Otryt mountain range, Bieszczady Mts (Aug 16, 2009). Photography by G. Domian.

POSTPRIN

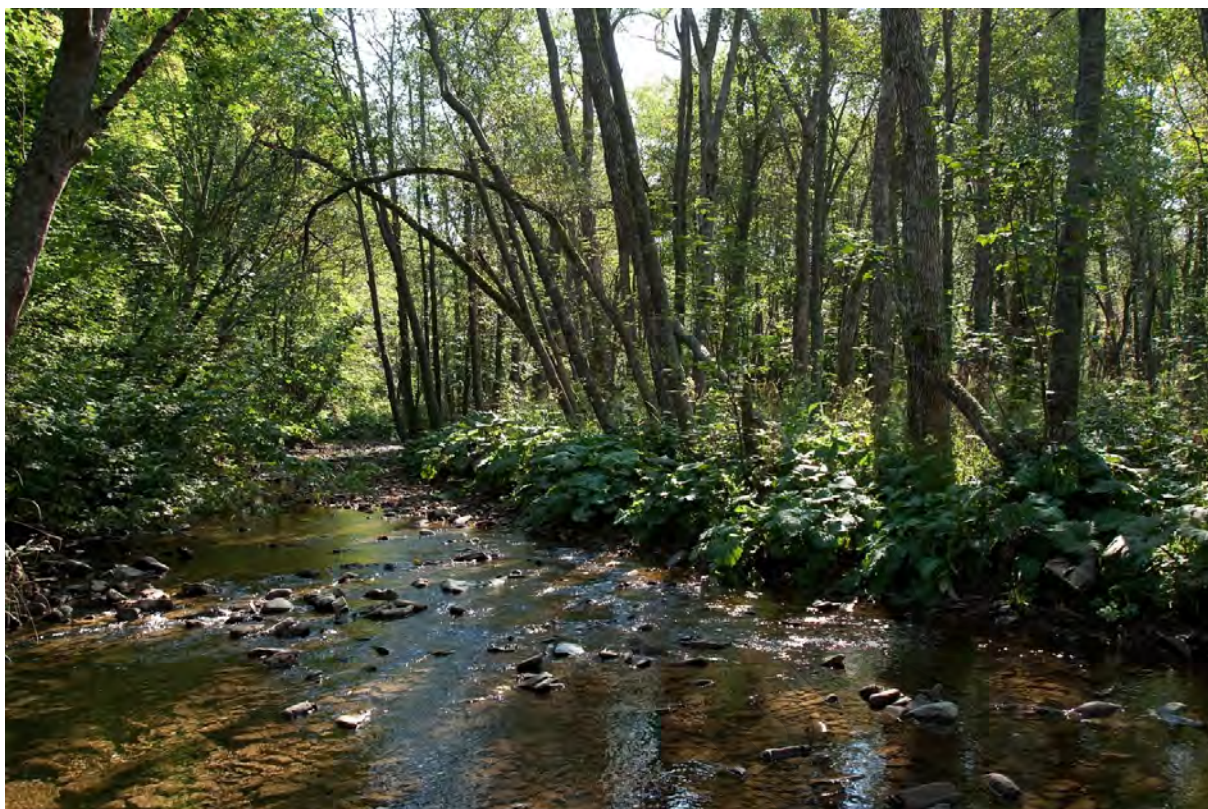


Fig. 3. Grey alder community (*Alnetum incanae*) in Wołosatka valley, Bieszczady Mts (Sep 02, 2011). Photography by K. Kujawa.

POSTPRINT



Fig. 4. Green alder (*Alnus viridis*) shrubs near Tarnica Mt, Bieszczady Mts (Jul 17, 2006).

Photography by R. Soboń.



Fig. 5. Subalpine zone (polonynas) on Kopa Bukowa Mt, Bieszczady Mts (Sep 10, 2011).

Photography by K. Kujawa.

POSTPRINT



Fig. 6. Raised bog “Dźwiniacz” in the Upper San valley, Bieszczady Mts (Aug 18, 2009).

Photography by G. Domian.

POSTPRIN



Fig. 7. Basidiomata of *Auriporia aurulenta* A. David, Tortič & Jelič from the Bieszczady Mts (Sep 05, 2011). Photography by K. Kujawa.

POSTPRINT



Fig. 8. Ascomata of *Bulgariella pulla* (Fr.) P. Karst. from the Bieszczady Mts (Aug 08, 2009).

Photography by G. Domian.

POSTPRINT



Fig. 9. Basidiomata of *Clitopilus passeckerianus* (Pilát) Singer from the Bieszczady Mts (Aug 01, 2011). Photography by K. Kujawa.

POSTPRINT



Fig. 10. Ascomata of *Cudoniella tenuispora* (Cooke & Masee) Dennis from the Bieszczady Mts (Jun 02, 2015). Photography by T. Pachlewski.

POSTPRINT



Fig. 12. Basidiomata of *Octavianina mutabilis* E. Bommer & M. Rousseau from the Bieszczady Mts (Nov 29, 2011). Photography by P. Chachuła.

POSTPRINT



Fig. 13. Basidioma of *Phaeocollybia jennyae* (P. Karst.) Romagn. from the Bieszczady Mts (Aug 02, 2011). Photography by K. Kujawa.



Fig. 14. Ascoma of *Scutellinia torrentis* (Rehm) T. Schumach. from the Bieszczady Mts (Aug 02, 2011). Photography by K. Kujawa.



Fig. 15. Ascomata of *Vibrissea decolorans* (Saut.) A. Sánchez & Korf (Jun 03, 2010).

Photography by T. Pachlewski

POSTPRINT

Appendix S1

Macrofungi of the Bieszczady Mountains

Błażej Gierczyk, Anna Kujawa, Andrzej Szczepkowski, Tomasz Ślusarczyk, Tomasz Pachlewski, Piotr Chachuła, Grażyna Domian

Supportive Material

Data have been presented according to the following scheme: **species name; threat category, species protection; LR:** literature data (with synonymous names used by cited authors); **PP:** data included on the Bieszczady National Park Protection Plan (2011, unpublished); **UP:** unpublished data from the years 2008-2013. **Notes:** Additional information and comments (doubts, misconceptions, errors etc.). For **PP** and **UP** records localities, phenological information, habitats and substrata have been reported. In **LR** section the paper by Gierczyk et al. [S1] has been cited if this paper provided any original data, not only the literature ones.

Abbreviations and symbols used on species list:

! – species new to Poland, # – species new to the Bieszczady Mts, ♦ – species known from Poloniny NP (Slovakia), ? – uncertain or doubtful data, * – species occurring on the area of the Bieszczady NP;

NP – National Park; LP – Landscape Park; NR – Natural Reserve;

RL – species included on Red list of macrofungi in Poland with category: Ex – extinct and probably extinct, E – endangered, V – vulnerable, R – rare, I – indeterminate;

SP – strictly protected species, PaP – partially protected species; NChL – species not mentioned on the checklists of Polish macro- and microfungi;

I++ – taxa mentioned on list of indicators of nature value of beech forests in Europe [S2]; SSI – species of special interest in class A - C according to Ódor et al. [S3]

LIST OF SPECIES

ASCOMYCOTA

**Acrospermum compressum* Tode; LR: [S4] PP: Wetlina (Lutowy valley); VI; roadside; dead stems of herbaceous plants.

?*Alborbis galericulata* (Tul. & C. Tul.) Senan. & K.D. Hyde; LR: [S5] (as *Cryptodiaporthe galericulata* (Tul.) Wehm.). Notes: Doubtful data, species listed by the authors with “?” mark.

*◆*Aleuria aurantia* (Pers.) Fuckel; LR: [S5,S6] (as *Peziza aurantia* Pers.), [S1]. UP: S from Wetlina (NE slope of Jawornik Mt); VIII; beech forest; soil.

**Amphisphaeria helvetica* H. Wegelin; LR: [S5]. Notes: In Poland known only from the Bieszczady Mts.

Amphisphaeria pusiola P. Karst.; LR: [S7]. Notes: In Poland known only from the Bieszczady Mts.

Amphisphaeria umbrina (Fr.) De Not.; LR: [S7]. Notes: In Poland also known from Dolny Śląsk region [S8].

*◆*Annulohypoxylon cohaerens* (Pers.) Y.M. Ju, J.D. Rogers & H.M. Hsieh; LR: [S5,S6,S7,S9,S10,S11] (as *Hypoxylon cohaerens* (Pers.) Fr.).

*◆*Annulohypoxylon multiforme* (Fr.) Y.M. Ju, J.D. Rogers & H.M. Hsieh var. *multiforme*; LR: [S5,S6,S7,S9,S10] (as *Hypoxylon multiforme* Fr.).

**Anthostoma turgidum* (Pers.) Nitschke; LR: [S6,S7,S9,S10] (as *Lopadostoma turgidum* (Pers.) Traverso).

Anthracobia melaloma (Alb. & Schwein.) Boud.; LR: [S7].

**Ascobolus albidus* P. Crouan & H. Crouan; LR: [S7,S9] (as *A. glaber* Pers.).

◆*Ascobolus carbonarius* P. Karst.; LR: [S7].

**Ascobolus equinus* (O.F. Müll.) P. Karst.; LR: [S1] (as *Lasiobolus equinus* (O.F. Müll.) P. Karst.).

Ascobolus immersus Pers.; LR: [S7] (as *Dasyobolus immersus* (Pers.) Sacc.).

*♦*Ascocoryne cylichnium* (Tul.) Korf; LR: [S7] (as *Coryne cylichnium* (Tul.) Boud.), [S12]. UP: SW from Zatwarnica (Hulski valley), Rozsypaniec Mt 1 km SW, Wetlina (Górna Solinka valley); IX-X; *Dentario glandulosae-Fagetum*; deciduous log, *Fraxinus* log.

*♦*Ascocoryne sarcoides* (Jacq.) J.W. Groves & D.E. Wilson; LR: [S6,S7,S9] (as *Coryne sarcoides* (Jacq.) Tul.), [S1]. PP: Wetlina (Moczarne, Górna Solinka valley); IX; fir-beech forest; log. UP: SE from Wetlina (Górna Solinka valley); X; beech forest; wood.

♦*Ascotremella faginea* (Peck) Seaver; RL-V; LR: [S12].

**Belonidium sulphureum* (Pers.) Raitv.; LR: [S9] (as *Dasyscypha sulfurea* (Pers.) Masse.), [S4] (as *Lachnum sulphureum* P. Karst.). UP: Lutowiska (near Jewish cemetery); VIII; meadow; *Urtica dioica* stems.

*♦*Bertia moriformis* (Tode) De Not.; LR: [S5,S7,S9,S10].

*♦*Biscogniauxia nummularia* (Bull.) Kuntze; SSI(C); LR: [S5] (as *Nummularia bulliardi* Tul.).

**Bisporella citrina* (Batsch) Korf & S.E. Carp.; LR: [S6,S7,S9] (as *Helotium citrinum* Hedw.), [S5] (as *Calycella citrina* (Hedwig) Boud.), [S1,S11]. PP: Wielka Rawka Mt (Dothe Pole), Jamniczna (vicinity of Muczne), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, Chyzyszczce); VI-X; fir-beech forest, beech forest; *Fagus* wood. UP: Beniowa 6 km S, S from Zatwarnica (Hylaty valley, Izwir); VIII-IX; beech forest; wood.

?*Bombardia fasciculata* Fr.; LR: [S6,S10]. Notes: Listed by the authors as uncertain data with “cf.” symbol.

##♦*Brunnipila clandestina* (Bull.) Baral; PP: Wetlina (Górna Solinka valley, Buwki), Wetlina (Lutowy valley); V-VI; roadside; dead stems of herbaceous plants.

##*Brunnipila fuscescens* (Pers.) Baral; PP: Wetlina (Lutowy valley); VI; roadside; *Fagus* leaves.

*♦ *Bulgaria inquinans* (Pers.) Fr.; LR: [S6,S9,S13] (as *B. polymorpha* (Oeder) Wettstein), [S1,S5,S14]. PP: between Pszczeliny and Bukowe Berdo Mt (Kiczera Mt), Wołosate 3.5 km E (Horbki), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek Mt), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt); VI, VIII; beech forest, fir-beech forest, mixed forest; *Fagus* log. UP: Lutowiska (by nature trail), Wetlina (E slope of Jawornik Mt), Hulskie NR, Sine Wiry NR (S slope of Połoma Mt); VIII, X; roadside, beech forest; wood, *Fagus* log.



Fig. S1. Ascomata of *Bulgariella pulla* (Fr.) P. Karst. from the Bieszczady Mts (Aug 08, 2009). Photography by G. Domian.

!#* *Bulgariella pulla* (Fr.) P. Karst. (Fig. S1); NChL; PP: Wołosate 2.5 km E (Walkowe Berdo Mt); VIII; beech forest; *Fagus* log. Notes: Apothecia gregarious, small, up to 4 mm, sessile, disciform with convex to flat hymenium, dark olive brown to olive blackish brown, outside finely furfuraceous to glabrous, concolorous with hymenium. Asci non-amyloid, 8-spored, 140–160 × 10–12 µm. Spores aseptate, ellipsoid to broadly ovoid, 11–16 × 8–9 µm,

brown. Paraphyses filiform, septate in lower part, somewhat enlarged at apex, with brown, granular content. Croziers present. Ectal excipulum of textura porrecta, composed of brown, incrustated elements. Specimens seen: 20.08.2009, *leg.* G. Domian, *det.* A. Kujawa, fungarium no. BdPN-01001.

#♦ *Caloscypha fulgens* (Sw.) Körb.; RL-R; UP: Krzywe 1.5 km SE; V; forest landing in fir-beech forest; wood remains.

****Camarops polysperma* (Mont.) J.H. Mill.; LR:** [S5] (as *Bolinia tubulina* (Alb. & Schw.) Sacc.). **Notes:** According to Mułenko et al. [S15] the specimens collected in Bieszczady Mts by Domański et al. [S5], and determined as *C. tubulina* (Alb. & Schwein.) Shear, belongs to *C. polysperma*.

?♦ *Camarops tubulina* (Alb. & Schwein.) Shear; LR: [S1]. **Notes:** Wrongly reported from the Bieszczady Mts after Domański et al. [S5] (see notes under *C. polysperma* (Mont.) J.H. Mill.).

****Capitotricha bicolor* (Bull.) Baral; LR:** [S1,S4] (as *Lachnum bicolor* (Bull.) P. Karst.). **UP:** Wołosate (N slope of Mińczola Mt); VII; fir-spruce forest; wood.

##♦ *Catinella olivacea* (Batsch) Boud.; SSI(C); UP: E slope of Połonina Wetlińska Mt; VII; beech forest; *Fagus* log.

!##Chaetosphaerella phaeostroma* (Durieu & Mont.) E. Müll. & C. Booth; NChL; UP:** Wetlina (Górna Solinka valley); X; beech forest; *Acer pseudoplatanus* log. **Notes:** Peritecia black, gregarious, ellipsoid, up to 0.4 × 0.55 mm, occurring on black mycelium, surrounded by black setae (up to 0.4 mm long) and branched conidiophores. Asci 8-spored, 95-110 × 14-16 µm. Ascospores 3-septate, fusiform with obtuse ends, slightly curved, 30-37 × 7-9.5 µm, median cells brown, end cells hyaline. Conidiospores ellipsoid, 3-septate, 20-30 × 10-12 µm, similarly colored. Specimens seen: 08.10.2010, *leg.* G. Domian, *det.* B. Gierczyk, fungarium no. BdPN-01600.

****Cheilymenia fimicola* (De Not. & Bagl.) Dennis; LR:** [S5] (as *C. coprinaria* (Cooke) Boud.), [S4]. **PP:** Wołosate (horse stud); X; open place; *Equus caballus* dung. **UP:** Beniowa 6 km S; VIII; beech forest; *Ursus* dung.

#*♦*Cheilymenia stercorea* (Pers.) Boud.; **PP:** W from Zatwarnica (Tworylczyk valley), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); VI; beech forest; *Cervus* dung, *Bison* dung.

****Cheilymenia vitellina* (Pers.) Dennis;** **LR:** [S9] (as *Lachnea vitellina* (Pers.) Phill.), [S4]. **PP:** Bereżki 3 km NW; VIII; roadside (among *Urtica dioica*); soil.

****Chlorencoelia versiformis* (Pers.) J.R. Dixon;** **RL-R;** **LR:** [S5] (as *Chlorociboria versiforme* (Pers.) Seaver).

#*♦*Chlorociboria aeruginascens* (Nyl.) Kanouse ex C.S. Ramamurthi, Korf & L.R. Batra; **UP:** Wetlina (Górna Solinka valley), Wołosate 1 km S; IX-X; beech forest; *Fagus* wood.

#Chlorociboria aeruginosa* (Oeder) Seaver ex C.S. Ramamurthi, Korf & L.R. Batra;** **RL-R;** **PP:** Ustrzyki Górne 2 km N (N slope of Kiczera Mt), Wołosate (N slope of Kiczera Mt), Wołosate 3.5 km E (Horbki); VIII; beech forest; *Fagus* wood. **UP:** Sine Wiry NR (S slope of Połomy Mt), NNE from Jaworzec (NE slope of Żołobina Mt, near Szczycisko pass); VIII; beech forest; deciduous wood.

?*Chlorociboria* sp.; **LR:** [S9] (as *Ch. aeruginosa* (Fr.) Seaver), [S5] (as *Chlorosplenium aeruginosum* (Oeder ex S.F. Gray) de Not.). **Notes:** In 1963 the Authors reports [S9] “*Chlorociboria aeruginosa* (Fr.) Seaver, [= *Chlorosplenium aeruginascens* (Nyl.) P. Karst.; = *Ch. aeruginosum* (Fr.) de Not.]”, since in 1970 [S5]: “*Chlorosplenium aeruginosum* (Oeder ex S.F. Gray) de Not.”. Currently, *Ch. aeruginascens* (Nyl.) Kanouse ex C.S. Ramamurthi, Korf & L.R. Batra (= *Chlorosplenium aeruginascens* (Nyl.) P. Karst.) and *Ch. aeruginosa* (Oeder) Seaver ex C.S. Ramamurthi, Korf & L.R. Batra (= *Chlorosplenium aeruginosum* (Fr.) de Not.) are recognised as separate species, therefore the taxonomic identity of the specimens mentioned are unclear.

***Ciboria rufofusca* (O. Weberb.) Sacc.;** **LR:** [S16]. **UP:** Krzywe 1.5 km SE; V; forest landing in fir-beech forest; *Abies* cone scale.

#Cistella grevillei* (Berk.) Raitv.;** **PP:** Wetlina (Lutowy valley); VI; roadside; *Cirsium* stems.

***♦*Claviceps purpurea* (Fr.) Tul. s.l.;** **LR:** [S1,S4,S7]. **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, Sołynki Forest), Ustrzyki

Górne 2 km SW (Wierch Mt), W from Wołosate bog (Wielkie Pole), Tarnawa Niżna (Szyryń), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt); VII-X; meadow, roadside, forest clearing; flowerheads of *Phleum pratense*, *Dactylis glomerata* and *Arrhenatherum elatius*.

UP: Suche Rzeki, E slope of Połonina Wetlińska Mt, W from Wetlina (E slope of Kiczera Mt), SSE from Cisna (by the tourist trail on Okrąglik Mt), W from Rabe (by the tourist trail to Bobrowe Lake); VI-IX; meadow, roadside, *Alnetum incanae*; ergot, flowerheads of grasses.

****Colpoma juniperi* (P. Karst. ex P. Karst.) Dennis; LR:** [S17] (as *Coccomyces juniperi* P. Karst.).

***♦*Cordyceps militaris* (L.) Link; RL-R; LR:** [S6,S7,S13]. **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); VI; beech forest; pupa. **UP:** Cisna 1 km S, Wetlina (Górna Solinka valley), Drewniczok 1.5 km N, Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt); VII-VIII; beech forest, mixed forest; pupa.

?*Coronophora ovipara* Munk; LR: [S6]. **Notes:** Species of uncertain status [S18].

****Cosmospora coccinea* Rabenh.; LR:** [S1,S4] (as *Nectria cosmariospora* Ces. & De Not.).

****Cryptosporella suffusa* (Fr.) L.C. Mejía & Castl.; LR:** [S6,S9] (as *Cryptospora suffusa* (Fr.) Tul.).

***Cucurbitaria obducens* (Schumach.) Petr.; LR:** [S7] (as *Trechispora obducens* (Fr.) Fuckel). **Notes:** In Poland reported also from Dolny Śląsk region [S8] and Białowieża NP [S19].

***Cudonia circinans* (Pers.) Fr.; RL-V; LR:** [S7].

##*Cudoniella acicularis* (Bull.) J. Schröt.; PP: Wetlina (Górna Solinka valley); X; fir-beech forest; wood.

##♦*Cudoniella clavus* (Alb. & Schwein.) Dennis; PP: Wetlina (Górna Solinka valley, Mohyłka); VI; beech forest; *Fagus cupules*.

!##*Cudoniella tenuispora* (Cooke & Masee) Dennis (Fig. S2); NChL; PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wetlina (Górna Solinka valley, Kohutowa Hora); V-VI; beech forest; *Fagus* litter, *Fagus* wood. **Notes:** Apothecia shortly stipate, with convex hymenium, whitish ocher, cream-colored, grayish white to dirty yellowish white, margin deflexed, darker, pale grayish brown, outside glabrous, up to 1.5 cm in diameter. Asci 8-

spored, with non-amyloid pore, $70\text{--}110 \times 6\text{--}9 \mu\text{m}$. Spores fusoid, non-septate, $11\text{--}15 \times 4.5\text{--}5.5 \mu\text{m}$. Paraphyses slender, non-septate or sparsely septate, up to $2.5 \mu\text{m}$ broad. Croziers present. Ectal excipulum of *textura intricata*. Specimens seen: 02.06.2010, *leg.* T. Pachlewski, *det.* A. Kujawa, fungarium no. BdPN-01355; 31.05.2010, *leg.* T. Pachlewski, *det.* A. Kujawa, fungarium no. BdPN-01374.



Fig. S2. Ascomata of *Cudoniella tenuispora* (Cooke & Masee) Dennis from the Bieszczady Mts (Jun 02, 2015). Photography by T. Pachlewski.

**Cyathicula coronata* (Bull.) De Not.; LR: [S7,S9].

##♦*Cyathicula cyathoidea* (Bull.) Thüm.; PP: Wetlina (Lutowy valley), Ustrzyki Górne 1 km W; VI; mixed forest, roadside; dead stems of herbaceous plants, *Juncus* stems.

*♦*Daldinia concentrica* (Bolton) Ces. & De Not. s.l.; LR: [S1,S5,S7,S9]. PP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek Mt), Ustrzyki Górne (by the bridge over Wołosaty stream), Wetlina (Górna Solinka valley), Suche Rzeki (Czerzeżyk

Łocentyków); V-VI; shrubs by the stream, mixed forest, beech forest, *Alnetum incanae*; *Alnus incana* wood. **UP:** Lutowiska (Jewish cemetery); VIII; tree clump; *Alnus incana* trunk.

****Dasyscyphus virgineus* (Batsch) Gray; LR:** [S9] (as *Dasyscypha virginea* (Batsch) Fuckel), [S1] (as *Lachnum virgineum* (Batsch) P. Karst.). **PP:** Suche Rzeki (E slope of Jawornik Mt), Wetlina (Górna Solinka valley); V-VI; fir-beech forest, roadside; wood, *Fagus cupules*.

****Dasyscyphus willkommii* (Hartig) Rehm; LR:** [S7,S9] (as *Trichoscyphella willkommii* (Hartig) Nannf.).

****Dialonectria episphaeria* (Tode) Cooke; LR:** [S4] (as *Nectria episphaeria*).

****Diaporthe alnea* Fuckel; LR:** [S9]. **Notes:** In Poland known only from the Bieszczady Mts.

***Diaporthe eres* Nitschke; LR:** ?[S5], [S15]. **Notes:** Domański et al. [S5] have reported it with “?” mark. According to Mułenko et al. [S15] data on *D. revellens* Nitschke, published by Domański et al. [S7] correspond to this species.

?*Diaporthe fallaciosa* Nitschke; LR: [S9]. **Notes:** Species of uncertain status [S18].

****Diaporthe pustulata* Sacc.; LR:** [S5,S7]. **Notes:** In Poland reported from historical localities in Dolny Śląsk region [S8] and from Cieszyńskie Foothills [S20].

?*Diaporthe revellens* Nitschke; LR: [S7]. **Notes:** According to [S15] this record represents *D. eres* Nitschke.

****Diaporthe spiculosa* (Pers.) Nitschke; LR:** [S9]. **Notes:** In Poland reported from historical localities in Dolny Śląsk and Lubuskie regions [S8] and from Borecka Forest [S21].

****Diaporthe syngenesia* (Fr.) Nitschke; LR:** [S9].

***♦*Diatrype bullata* (Hoffm.) Fr.; LR:** [S5,S6,S7,S9]. **UP:** Lutowiska (Jewish cemetery), Wołosate; VIII-IX; roadside, *Alnetum incanae*; *Salix caprea* trunk, wood.

****Diatrype decorticata* Rapaz; LR:** [S15]. **Notes:** According to Mułenko et al. [S15] specimens collected by Domański et al. [S5,S7] and Truszkowska [S10] and published as *D. stigma* (Hoffm.) Fr. belongs to *D. decorticata*. These data were also wrongly cited by Gierczyk et al. [S1] as *D. stigma*.

*♦*Diatrype disciformis* (Hoffm.) Fr.; LR: [S4,S5,S6,S7,S9,S10,S13]. UP: Dwerniczek 3.5 km N; VIII; beech forest; *Fagus* branch.

*♦*Diatrype stigma* (Hoffm.) Fr.; LR: [S6]. PP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec Mt); VI; shrubs by the stream; *Corylus* branches. Notes: Seen notes above at *D. decotricata* Rapaz.

**Diatrypella favacea* (Fr.) Ces. & De Not.; LR: [S5,S6,S7,S9,S10] (as *D. aspera* (Fr.) Nitschke., *D. nigroannulata* (Grev.) Nitschke., *D. tocciaeana* De Not. i *D. verrucaeformis* (Ehrh.) Nitschke.).

**Diatrypella placenta* Rehm; LR: [S5,S9].

**Didymosphaeria fulvis* (Berk. & Broome) Rehm; LR: [S9] (as *D. brunneola* Niessl.).

**Discina ancilis* (Pers.) Sacc.; RL-R; LR: [S1], [S4] (as *D. perlata*).

**Discina parma* J. Breitenb. & Maas Geest.; NChL, SSI(A); LR: [S4]. Notes: In Poland species also known from Masurian LP [S22].

*♦*Dumontinia tuberosa* (Hedw.) L.M. Kohn; LR: [S1,S4].

#**Elaphomyces asperulus* Vittad.; PP: Wetlina (Górna Solinka valley, Kohutowa Hora); VI; beech forest; soil.

**Elaphomyces granulatus* Fr.; LR: [S4,S13,S23]. UP: SE from Wetlina (Górna Solinka valley); VII; beech forest; soil.

#*Elaphomyces muricatus* Fr.; UP: Muczne (NE slope of Kudriawyński Wierch Mt); X; fir-beech forest; soil.

Eutypa maura (Fr.) Sacc.; LR: [S7] (as *E. acharii* Tul.).

*♦*Eutypa spinosa* (Pers.) Tul. & C. Tul.; LR: [S4,S5,S6,S7,S9,S10,S11]. UP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec Mt), W from Zatwarnica (Tworylczyk valley), near Tarnawa Górna (3.5 km SW from Tarnawa bog), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate 3.5 km E (Horbki); VI, VIII; beech forest, fir-beech forest; *Fagus* log.

**Eutypella cerviculata* (Fr.) Sacc.; LR: [S5,S9] (as *E. alnifraga* (Wahl.) Sacc.), [S10] (as *Valsa alnifraga* (Wahlenb.) Fr.).

**Eutypella quaternata* (Pers.) Rappaz; LR: [S5,S6,S7,S9,S10] (as *Quaternaria quaternata* (Pers.) Schroeter).

Fenestella fenestrata* (Berk. & Broome) J. Schröt.; LR: [S6] (as *F. principes* Tul.). **Notes: In Poland also known from historical localities in Dolny Śląsk and Śląsk Opolski regions [S8].

?*Fenestella subvestita* Ferd. & Winge; LR: [S6,S9]. **Notes:** Species of uncertain status [S18].

#*Geoglossum simile* Peck; NChL; UP: Kalnica; X; meadow; soil. **Notes:** In Poland also known from Białowieża Primeval Forest [S24].

##**Geopora cervina* (Velen.) T. Schumach.; NChL; UP: Zatwarnica 2 km S (Hylaty valley); VIII; roadside; soil.

*♦*Gyromitra gigas* (Krombh.) Cooke; RL-V; LR: [S1,S4].

♦*Gyromitra infula* (Schaeff.) QuéL.; RL-V; LR: [S7] (as *Helvella infula* Schaeff.).

*♦*Helvella crispa* (Scop.) Fr.; LR: [S1]. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Zatwarnica 2 km S (Hylaty valley), Hulski valley; VIII-IX; beech forest, fir-beech forest; soil.

#♦*Helvella elastica* Bull.; UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Hulski valley; IX; beech forest; soil.

#*Helvella lactea* Boud.; UP: Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil. **Notes:** In Poland also known from Roztocze region [S25,S26].

*♦*Helvella lacunosa* Afzel.; RL-R; LR: [S1,S5,S6,S9,S13]. PP: S from Bereżki (Zwir valley – Polanki); VIII; beech forest; soil. UP: Wetlina (Górna Solinka valley), X; beech forest; soil.

##**Helvella latispora* Boud.; NChL; PP: Wetlina (Górna Solinka valley, SW slope of Kiczera Mt), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; shrubs by the stream;

soil. **UP:** Wola Michowa, Wetlina (Górna Solinka valley), Dwerniczek 1 km N; VIII, X; beech forest, willow shrubs, tree clump; soil.

*♦ *Helvella macropus* (Pers.) P. Karst.; **LR:** [S6,S9,S13] (as *Macropodia macropus* (Pers.) Rehm.), [S5,S7] (as *Cyathipodia macropus* (Pers.) Dennis.), [S1]. **PP:** S from Bereżki (Zwir valley), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Wołosate (SW slope of Semków Wierszek Mt); VIII; beech forest; soil, *Fagus* log. **UP:** Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Wola Michowa, S from Zatwarnica (Hylaty valley, Izwir); VIII-X; larch forest, beech forest, fir-beech forest; soil.

#* *Helvella stevensii* Peck; **PP:** vicinity of Muczne (Jamniczna); VIII; fir-beech forest; soil. **Notes:** In Poland also known from Iński LP [S27,S28].



Fig. S3. Ascomata of *Heyderia abietis* (Fr.) Weinm. from the Bieszczady Mts (Oct 04, 2010). Photography by G. Domian.

**Heyderia abietis* (Fr.) Weinm. (Fig. S3); LR: [S7] (as *Gymnomitrula abietis* (Fr.) Imai).
PP: Wetlina (Górna Solinka valley); X; spruce brushwood; litter. UP: Górna Solinka valley (Moczarne); X; roadside; litter.

**Humaria hemisphaerica* (Hoffm.) Fuckel; LR: [S6,S7,S9] (as *Lachnea hemisphaerica* (F.H. Wigg.) Gillet), [S1,S5]. PP: Wołosate (SW slope of Semków Wierszek Mt), Wołosate (N slope of Kiczera Manzowa Mt); VIII; beech forest; soil. UP: Pszczeliny 2 km W (SE slope of Kosowiec Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Dwerniczek 1.5 km N, Czarna 5 km S, Zatwarnica 2 km S (Hylaty valley); VIII; beech forest, roadside slope, coniferous forest, fir-beech forest; soil.

Hymenoscyphus albidus (Gillet) W. Phillips; LR: [S1]. UP: Cisna (by the tourist trail to Okrąglik Mt), Lutowska (nature trail), Sękowiec 1 km N (Otryt valley); VII-VIII; deciduous forest, shrubs by the stream, meadow; *Fraxinus excelsior* petiole.

**Hymenoscyphus fagineus* (Pers.) Dennis; LR: [S1].

*♦*Hymenoscyphus fructigenus* (Bull.) Fr.; LR: [S5,S7,S9] (as *Helotium fructigenum* (Bull.) Fuckel), [S4]. PP: W from Bereżki; VIII; hazel shrubs; *Corylus* nuts. UP: Czarna 5 km S, NE slope of Wielka Rawka Mt, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; deciduous forest, hazel shrubs, fir-beech forest; *Corylus* nuts.

##♦*Hymenoscyphus imberbis* (Bull.) Dennis; PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); VI; beech forest; wood.

*♦*Hymenoscyphus scutula* (Pers.) W. Phillips; LR: [S7,S9] (as *Helotium scutula* Pers.).

##♦*Hymenoscyphus serotinus* (Pers.) W. Phillips; UP: Wołosate (S slopes of Tarnica Mt), Wetlina (Górna Solinka valley), Wetlina (Ruwień Forest); IX-X; beech forest; wood, litter.

!##*Hymenoscyphus subferrugineus* (Nyl.) Dennis; NChL; PP: Bereżki 2 km NW; VIII; beech forest; trunk. Notes: Apothecia small, cup-shaped, up to 4 mm in diameter, stipate, brown to reddish brown. Asci 8-spored, with amyloid pore. Spores narrowly ellipsoid to cylindrical, aseptate, hyaline, 15–22 × 4–6 µm. Paraphyses slender, sparsely septate, with yellowish to brown content. Croziers present. Ectal excipulum of textura prismatica. Specimens seen: 23.08.2008, leg. & det. T. Ślusarczyk, fungarium no. 43/TŚ/BdPN/230808.

*♦*Hymenoscyphus vernus* (Boud.) Dennis; LR: [S1] (as *H. vernalis* (Boud.) Dennis).

**Hymenoscyphus virgultorum* (Oeder) W. Phillips; LR: [S7,S9] (as *Helotium calyculus* (Sowerby) Fr.). UP: Lutowiska (Jewish cemetery); VIII; tree clump; wood.

**Hypocrea aureoviridis* Plowr. & Cooke; NChL; LR: [S1]. Notes: Species known only from the Bieszczady Mts.

**Hypocrea citrina* (Pers.) Fr.; LR: [S12]. UP: Wołosate; IX; *Alnetum incanae*; *Fomitopsis pinicola* basidiomata on *Alnus incana* trunk.

?*Hypocrea fragiforme*; LR: [S12]. Notes: In the original paper mentioned on the list as: “(...), *Hypocrea citrina*, *H. fragiforme*, *Inonotus* (...)”. It is probably an editing error and these data refer to *Hypoxylon fragiforme* (Pers.) J. Kickx f.

#**Hypocrea gelatinosa* (Tode) Fr.; UP: NE slope of Wielka Rawka Mt; VIII; fir-beech forest; *Fagus* branch.

*♦*Hypocrea pulvinata* Fuckel; LR: [S1,S4]. PP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Ustrzyki Górne (by the bridge over Wołosaty stream), W from Zatwarnica (Tworylczyk valley), S from Bereżki (Zwir valley – Polanki); VI; beech forest, mixed forest, fir-beech forest; *Fomitopsis pinicola* basidiomata.

#*Hypocrea thelephoricola* P. Chaverri & Samuels; NChL; UP: Sine Wiry NR (S slope of Połoma Mt); VIII; beech forest; basidiomata of *Steccherinum ochraceum* on *Fagus* branch. Notes: In Poland known also from the Przemyśl Foothills [S29].

?*Hypomyces* sp.; LR: [S9] (as *H. luteo-virens* (Fr.) Plowr.). Notes: In current monographs and checklists combination *Hypomyces luteo-virens* (Fr.) Plowr. is not mentioned. The authors [S9] also mentioned a synonymic name (*H. viridis* (A. & S.) Berk. & Br.); however, such combination is also currently is not accepted. If the cited data concern *H. luteovirens* (Fr.) Tul. & C. Tul., it is a synonym of *H. tulasneanus* Plowr. (parasite of *Boletales*), but if it concerns *H. luteovirens* ss. Petch it is synonymous with *H. viridis* (A. & S.) P. Karst. (parasiting on *Russulales*). The substrata mentioned by Domański et al. [S9] indicate that they probably found *H. viridis* (A. & S.) P. Karst.

*♦*Hypoxylon fragiforme* (Pers.) J. Kickx f.; LR: [S1,S4,S5,S6,S7,S9,S10,S11]. PP: Wołosate 3.5 km E (Horbki); VIII; beech forest; *Fagus* log. UP: NE slope of Wielka Rawka Mt, Wołosate 2 km N, between Muczne and Tarnawa (769 m asl pass), vicinity of Muczne

(Jamniczna); VIII-IX; beech forest, mixed forest, fir-beech forest; wood, *Fagus* logs and branches.

*♦ *Hypoxylon fuscum* (Pers.) Fr.; LR: [S1,S5,S6,S7,S9,S10].

Hypoxylon howeanum Peck; LR: [S7] (as *H. rutilum* Tul. & C. Tul.).

*♦ *Hypoxylon rubiginosum* (Pers.) Fr. var. *rubiginosum*; LR: [S5,S7].

*♦ *Kretzschmaria deusta* (Hoffm.) P.M.D. Martin; LR: [S6,S7,S9,S10] (as *Ustulina deusta* (Hoffm.) Petrak.), [S5] (as *Hypoxylon deustum* (Hoffm.) Grev.), [S1,S12]. PP: Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate 3.5 km E (Horbki), Suche Rzeki (E slope of Jawornik Mt), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Borec), Tworylczyk valley; VI-VIII; beech forest, fir-beech forest; *Fagus* logs and trunks. UP: near Hulski NR, Near Bereżki (NE slope of Kiczera Bereżczańska Mt); VIII; beech forest, fir-beech forest; *Fagus* log.

##* *Lachnellula calyciformis* (Willd. ex Fr.) Dharne; PP: Wetlina (Górna Solinka valley, Chyżyszcze); VI; beech forest; *Abies* branch.

##* *Lachnellula gallica* (P. Karst. & Har.) Dennis; UP: vicinity of Lutowiska; VII; mixed forest; *Abies* branch. Notes: In Poland known only from historical records [S8,S30,S31].

* *Lachnellula occidentalis* (G.G. Hahn & Ayers) Dharne; LR: ?[S17]. PP: Wetlina Górna (BdNP campsite); VI; larch row; *Larix* branch. Notes: Doubtful literature data, in paper [S17] reported with “cf.”. In Poland also known from Dolny Śląsk region [S32,S33].

##* *Lachnum nudipes* (Fuckel) Nannf.; PP: Wetlina (Lutowy valley); VI; roadside; dead stems of herbaceous plants.

##* *Lachnum subvirgineum* Baral; NChL; PP: Wetlina (Lutowy valley); VI; roadside; ?*Fagus* wood. Notes: Species also known from Białowieża Primeval Forest [S34].

##♦ *Lasiobolus intermedius* J.L. Bezerra & Kimbr.; PP: Wetlina (Górna Solinka valley, Mirki); V; beech forest; *Cervus* dung.

##* *Lasiobolus papillatus* (Pers.) Sacc.; NChL; UP: Wetlina (horse trail); V; roadside; *Equus caballus* dung. Notes: In Poland also known from Kampinos NP [S35].

Lasiosphaeria hispida (Tode) Clem.; LR: [S7].

**Lasiosphaeria ovina* (Pers.) Ces. & De Not.; LR: [S7,S9]. UP: vicinity of Wetlina; IV; mixed forest; wood.

**Lasiosphaeria punctata* Munk; LR: [S9,S10]. Notes: In Poland also known from Białowieża NP [S19].

Lasiosphaeria racodium (Pers.) Ces. & De Not.; LR: [S7]. Notes: In Poland also known from historical localities in Dolny Śląsk and Śląsk Opolski regions [S8].

Lasiosphaeria spermoides (Hoffm.) Ces. & De Not.; LR: [S7].

*♦*Leotia lubrica* (Scop.) Pers.; LR: [S6,S9,S13] (as *L. gelatinosa* Hill), [S1]. PP: Berehy Górne 1 km E (Snozy Forest), Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, Sołyńki Forest), Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Górna Solinka valley, SW slope of Kiczera Mt), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); VIII-X; fir-beech forest, beech forest; soil. UP: Wola Michowa, Lutowiska (Filówka spring), Dwerniczek 1.5 km N, Zatwarnica 2 km S (Hylaty valley), S from Zatwarnica (Hylaty valley, Izwir), Stuposiany 2 km SW (S slope of Prypiczek Mt), Widełki 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW, Gołoborze NR; VIII-X; pine-beech forest, beech forest, fir-beech forest, stone run among mosses; soil.

**Leptosphaeria doliolum* (Pers.) Ces. & De Not.; LR: [S9].

Leptosphaeria umbrosa Niessl; LR: [S9]. Notes: Species of uncertain status [S18].

**Libertella faginea* Desm.; LR: [S5,S6,S7,S10]. UP: Ustrzyki Górne 2 km SE; VII; beech forest; *Fagus* branch. Notes: In Poland known only from the Bieszczady Mts.

**Lophiostoma angustilabrum* var. *crenatum* (Pers.) Chesters & A.E. Bell; LR: [S5] (as *Lophiotrema crenatum* (Pers.) Sacc.). Notes: In Poland also reported from Dolny Śląsk region [S8].

**Lophiotrema duplex* (P. Karst.) Sacc.; LR: [S9]. Notes: In Poland reported only from the Bieszczady Mts.

**Marcelleina persoonii* (P. Crouan & H. Crouan) Brumm.; LR: [S1].

**Massarina eburnea* (Tul. & C. Tul.) Sacc.; LR: [S9].

**Massaria inquinans* (Tode) De Not.; LR: [S9].

?*Massaria urceolata* (Wallr.) Sacc.; LR: [S7]. **Notes:** Status of the species uncertain. According to Mułenko et al. this species “is representative of Basidiomycota, Agaricales: *Resupinatus poriaeformis* (Person) Thorn, Moncalvo & Redhead” [S15]. The microphotographs provided by Domański et al. [S7] indicate that the specimens from the Bieszczady Mts belong to Ascomycota. The revision of the material collected by Domański et al. is needed.

Massariovalsa megalospora* (Auersw.) E. Müll.; LR: [S9] (as *Valsaria megalospora* Auersw.). **Notes: In Poland known only from the Bieszczady Mts.

**Melanconis alni* Tul. & C. Tul.; LR: [S9].

**Melanconis flavovirens* (G.H. Otth) Wehm.; LR: [S5].

Melanomma aspegrenii (Fr.) Fuckel; LR: [S7]. **Notes:** In Poland also known from Białowieża Primeval Forest [S36,S37].

**Melanomma pulvis-pyrius* (Pers.) Fuckel; LR: [S5,S9,S10].

Melanomma rhododendri Rehm; LR: [S7]. **Notes:** In Poland also known from historical localities in Śląsk Opolski region [S8].

#*Melastiza chateri* (W.G. Sm.) Boud.; UP: Lutowiska (nature trail), Lutowiska 1.5 km SE, Dwerniczek 1.5 km N; VIII; beech forest, spruce forest, deciduous forest; soil.

*♦*Melogramma spiniferum* (Wallr.) De Not.; LR: [S5,S7,S9,S10].

*♦*Mollisia cinerea* (Batsch) P. Karst.; LR: [S5,S7,S9].

#**Mollisia escharodes* (Berk. & Broome) Gremmen; PP: Wetlina (Lutowy valley); VI; roadside; *Rubus* stems.

#**Mollisia lividofusca* (Fr.) Gillet; PP: SW slope of Rozsypaniec Mt; VII; beech forest; wood.

*♦*Morchella conica* Pers.; RL-R, PaP; LR: [S1,S4,S38].

?*Morchella elata* Fr.; RL-R, PaP; LR: [S1,S4]. **Notes:** Molecular studies are necessary to determine the taxonomic position of the specimens from the Bieszczady Mts.

**Morchella esculenta* (L.) Pers.; RL-R, PaP; LR: [S1,S4,S38].

*♦*Nectria cinnabarina* (Tode) Fr.; LR: [S9,S10]. UP: Pszczeliny-Widelki 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Fagus* log.

**Nectria modesta* Hoehn.; LR: [S5,S6,S7,S9,S10].

**Nectria sanguinea* (Sibth.) Fr.; LR: [S5,S6,S9,S10].

**Nemania effusa* (Nitschke) Pouzar; LR: [S5] (as *Hypoxylon serpens* (Pers.) Kicks. var. *effusum* (Nke.) Miller). Notes: In Poland also known from vicinity of Wałbrzych [S8] and Cieszyn [S39].

♦*Nemania serpens* (Pers.) Gray var. *serpens*; LR: [S7] (as *Hypoxylon serpens* (Pers.) Fr.).

*♦*Neobulgaria pura* (Pers.) Pert.; LR: [S6,S7,S9,S12]. PP: Wołosate (Polaniec valley), Wetlina (Górna Solinka valley, Sołynki Forest), Wetlina Górna (near BdNP campsite); VI-X; beech forest, fir-beech forest; *Fagus* logs and branches. UP: Wetlina (E slope of Jawornik Mt), Rozsypaniec Mt 1 km SW; IX-X; beech forest; wood, *Fagus* branch.

*♦*Neonectria coccinea* (Pers.) Rossman & Samuels; LR: [S1,S5,S6,S7,S9,S10] (as *Nectria coccinea* (Pers.) Fr.). PP: E slope of Wielka Rawka Mt; VI; beech forest; *Fagus* trunk. UP: Pszczeliny-Widelki 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Fagus* log.

**Neottiella rutilans* (Fr.) Dennis; LR: [S5]. UP: Tarnica 0.2 km N; IX; beech forest; soil.

**Neottiella vivida* (Nyl.) Dennis; LR: [S1]. UP: Halicz 0.5 km N; VII; bilberry shrubs; soil.

Ombrophila violacea (Hedw.) Fr.; LR: [S7].

Ophiocordyceps sphecocephala (Klotzsch ex Berk.) G.H. Sung, J.M. Sung, Hywel-Jones & Spatafora; LR: [S7] (as *C. specophila* (Klotzsch.) Berk. & M.A. Curt.).

**Ophiovalsa corylina* (Tul. & C. Tul.) Petr.; LR: [S9] (as *Cryptospora corylina* (Tul.) Fuck.).

Orbilbia xanthostigma (Fr.) Fr.; LR: [S7].

**Otidea alutacea* (Pers.) Masee; LR: [S1]. PP: Wołosate (SW slope of Semków Wierszek Mt); VIII; beech forest; soil. UP: Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

##♦*Otidea onotica* (Pers.) Fuckel; UP: Berezki 2 km NW; VIII; fir-beech forest; soil.

**Pachyella babingtonii* (Berk. & Broome) Boud.; LR: [S1]. UP: S from Zatwarnica (Hylaty valley, Izwir); IX; beech forest; wood.

##**Pachyella clypeata* (Schwein.) Le Gal; NChL; PP: Tworylczyk valley; VI; beech forest; *Fagus* log. Notes: In Poland known also from Przemyśl Foothills [S29].

!##**Pachyella violaceonigra* (Rehm) Pfister; NChL; UP: Wołosate (SW slope of Szeroki Wierch Mt); IX; beech forest; wood. Notes: Apothecia single or in small groups, flat, somewhat wrinkled, appressed, up to 5 cm, hymenium dark sepia to dark violet brown or dark reddish brown. Asci amyloid, operculate, 8-spored, 400–450 × 18–20 µm. Spores ellipsoid, thin-walled, hyaline, covered with cyanophilic, non-coalescent warts, two-guttulate, 20–26 × 11–14 µm. Paraphyses narrowly clavate, apex up to 8.5 µm, septate, with dark guttules of pigment not reacting with Melzer reagent. Ectal excipulum of textura globulosa, covered with hairs embedded in gel. Hyphoid hairs at the base of apothecium forming a palisade layer. Croziers absent. Specimens seen: 10.09.2008, leg. T. Pachlewski, det. A. Kujawa, B. Gierczyk, fungarium no. 9/BdPN/10.09.08.

**Perrotia flammea* (Alb. & Schwein.) Boud.; LR: [S9] (as *Dasyscypha flammea* (Alb. & Schwein.) Masee). Notes: In Poland also known from historical localities in the vicinity of Opole and Jelenia Góra [S8].

**Pezicula ocellata* (Pers.) Seaver; LR: [S4].

**Peziza ampliata* Pers.; LR: [S1]. Notes: In Poland also known from Dezydery Chłapowski LP [S40].

**Peziza arvernensis* Boud.; LR: [S1]. PP: Wołosate 3.5 km E (Horbki); Tworylczyk valley; VI-VIII; beech forest; wood, *Fagus* log, soil. UP: Rozsypaniec Mt 1 km SW; IX; beech forest; *Acer pseudoplatanus* log.

*♦*Peziza badia* Pers.; LR: [S6,S9] (as *Galactinia badia* (Pers.) Boud.), [S1]. PP: Górny San valley (by the nature trail), Beniowa; fir-beech forest, spruce forest; soil. UP: NE slope of

Wielka Rawka Mt, Dwerniczek 1.5 km N, Wołosate 2.5 km NE, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), vicinity of Muczne (Jamniczna); VIII-IX; mixed forest, beech forest, spruce forest, fir-beech forest; soil.

#Peziza cerea* Sowerby; PP:** Tworylczyk valley; VI; beech forest; *Fagus* log.

#Peziza fimeti* (Fuckel) Seaver; PP:** Wołosate (horse stud); VI; open place; *Equus caballus* dung, manure.

#Peziza granularis* Donadini; UP:** Wołosate; IX; *Alnetum incanae*; soil. **Notes:** In Poland also known from Zakopane [S32] and Lubogóra [S41].

****Peziza granulosa* Schumach.; LR:** [S1]. **PP:** S from Suche Rzeki; VI; *Alnetum incanae*; soil.

***♦*Peziza micropus* Pers.; LR:** [S9] (as *Aleuria micropus* (Pers.) Boud.), [S1]. **PP:** Wołosate 3.5 km E (Horbki), Suche Rzeki (SE slope of Maguryczy Mt), W from Zatwarnica (Tworylczyk valley), Wetlina (Górna Solinka valley); V-VIII; beech forest, fir-beech forest; wood, *Fagus* log. **UP:** Wołosate 1 km S; IX; beech forest, *Fagus* wood.

♦*Peziza repanda* Pers.; LR: [S7] (as *Plicaria repanda* (Pers.) Rehm).

***♦*Peziza saniosa* Schrad. ex J.F. Gmel. (Fig. S4); RL-R; LR:** [S1,S4]. **UP:** Lutowiska (Filówka spring), Zatwarnica 2 km S (Hylaty valley). Wyźniańska Pass 2 km SW (tourist trail to Mała Rawka Mt); VIII-IX; beech forest; soil.

***♦*Peziza succosa* Berk.; LR:** [S1]. **UP:** Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), S from Zatwarnica (Hylaty valley, Izwir), Hulski valley; VIII-IX; beech forest, fir-beech forest; soil.

#Peziza varia* (Hedw.) Alb. & Schwein.; PP:** Tworylczyk valley; VI; beech forest; *Fagus* log. **UP:** Wetlina (Górna Solinka valley); X; beech forest; *Fagus* wood.

****Peziza vesiculosa* Bull.; LR:** [S7]. **PP:** Wołosate (horse stud), Tarnawa; VI; open place; manure, *Equus caballus* dung. **UP:** Lutowiska 1.5 km W; VIII; meadow; hay bales.

***Peziza violacea* Pers.; LR:** [S7].



Fig. S4. Ascoma of *Peziza saniosa* Schrad. ex J.F. Gmel. from the Bieszczady Mts (Aug 06, 2011). Photography by K. Kujawa.

Pezizella eburnea* (Roberge) Dennis; LR: [S9] (as *Peziza eburnea* (Rob.) Dennis). **Notes: In Poland known only from the Bieszczady Mts.

*♦*Polydesmia pruinosa* (Berk. & Broome) Boud.; LR: [S4]. **UP:** NE slope of Wielka Rawka Mt; VIII; fir-beech forest; *Hypoxylon fragiforme* stromata.

#**Propolis farinosa* (Pers.) Fr.; **PP:** Wetlina (Górna Solinka valley); VI; roadside; *Salix* branch.

?*Prosthecium appendiculatum* (G.H. Otth) M.E. Barr; LR: [S9] (as *Melanconiella appendiculata* (Otth.) Sacc.). **Notes:** Listed by the authors as uncertain data with “?” mark.

**Prosthecium platanoidis* (Pers.) M.E. Barr; LR: [S6] (as *P. innesii* (Currey) Wehm.).

Pseudoophiobolus erythrosporus (Reiss) Phook.; LR: [S7] (as *Ophiobolus erythrosporus* (Reiss) Winter. **Notes:** In Poland reported also from historical localities in Dolny Śląsk region [S8].

Pseudoplectania nigrella (Pers.) Fuckel; LR: [S42].

*♦*Pseudoplectania vogesiaca* (Moug. & Nestlé) Seaver; LR: [S1]. UP: Muczne (NE slope of Kudriawyński Wierch Mt); X; fir-beech forest; *Abies* log.

**Pseudovalsella thelebola* (Fr.) Höhn.; LR: [S9] (as *Melanconium thelebola* (Fr.) Sacc.), [S5,S6,S7] (as *Melanconis thelebola* (Fr.) Sacc.).

##*Psilachnum chrysostigma* (Fr.) Raitv.; PP: Wetlina (Górna Solinka valley, Kohutowa Hora Mt); VI; beech forest; fern petioles.

Ptychoverpa bohemica (Krombh.) Boud.; RL-V, PaP; LR: [S43] (as *Verpa bohemica* (Krombh.) J. Schröt.).

**Pulvinula convexella* (P. Karst.) Pfister; LR: [S1]. UP: Lutowiska (Jewish cemetery), Zatwarnica 2 km S (Hylaty valley); VIII; tree clump, roadside; soil.

!#**Pyrenopeziza inornata* Graddon; NChL; PP: Wetlina (Lutowy valley); VI; roadside; *Petasites* petioles. Notes: Apothecia in groups, small, up to 2 mm in diameter, sessile, blackish with dark gray hymenium and paler, gray incurved margin. Asci 55–70 × 5–6 µm, 8-spored, with amyloid pore. Spores fusiform, 1–3 septate, hyaline, with small guttules, 18–25 × 3–3.5 µm. Paraphyses filiform. Ectal excipulum of textura globulosa composed of gray brown elements. Marginal hairs inconspicuous, composed from clavate to ovate elements. Croziers present. Specimens seen: 04.06.2010, leg. A. Kujawa, B. Gierczyk, det. B. Gierczyk, fungarium no. BdPN-01341.

*♦*Rhytisma acerinum* (Pers.) Fr.; LR: [S5,S7]. PP: near Beniowa (Górny San valley nature trail); VIII; spruce forest; *Acer pseudoplatanus* leaves.

*♦*Rhytisma salicinum* (Pers.) Fr.; LR: [S7,S13].

**Rosellinia aquila* (Fr.) De Not.; LR: [S6].

**Rosellinia mammiformis* (Pers.) Ces. & De Not.; LR: [S6,S9].

Rutstroemia elatina (Alb. & Schwein.) Rehm; LR: [S44].

**Rutstroemia firma* (Pers.) P. Karst.; LR: [S9].

**Sarcoscypha austriaca* (O. Beck. ex Sacc.) Boud.; LR: [S1,S4,S16,S38]. UP: Krzywe 1.5 km SE, Cisna (near sewage treatment plant); V; forest landing in fir-beech forest, tree clump; branch.

?♦*Sarcoscypha coccinea* (Scop.) Sacc.; LR: [S45]. Notes: Probably mistakenly mentioned from the Bieszczady Mts. For many years it was not distinguished from similar species, *Sarcoscypha austriaca* (O. Beck. ex Sacc.) Boud., which is very frequent in the studied area.

**Scutellinia barlae* (Boud.) Maire; NChL; LR: [S1]. PP: Wołosate (horse stud); VIII; open place; soil, herbaceous plant remains. Notes: In Poland known also from the Białowieża Primeval Forest [S46] and Kaczawskie Mts [S33].

##**Scutellinia cejpui* (Velen.) Svrcek; UP: Wołosate (SW slopes of Hudów Wierszek Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VII-VIII; beech forest, fir-beech forest; wood, soil.

*♦*Scutellinia crinita* (Bull.) Lambotte; NChL; LR: [S1]. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), SW from Muczne (Jamniczna), Dwerniczek 1.5 km N, S from Zatwarnica (Hylaty valley, Izwir); VIII-IX; beech forest, fir-beech forest; wood, soil.

**Scutellinia crucipila* (Cooke & W. Phillips) J. Moravec; LR: [S1,S5] (as *Cheilymenia crucipila* (Cooke & W. Phillips) Le Gal). UP: Lutowska 1.5 km SE, Pszczeliny; VIII; roadside in deciduous forest; soil.

**Scutellinia decipiens* Le Gal cf.; NChL; LR: [S1]. Notes: In Poland known also from the Białowieża Primeval Forest [S46].

**Scutellinia heterosculpturata* Kullman & Raitv. (Fig. S5); NChL; LR: [S1]. UP: SW slope of Połonina Wetlińska Mt, Wetlina (E slope of Jawornik Mt), S from Zatwarnica (Hylaty valley, Izwir); VIII-X; beech forest; wood. Notes: In Poland known only from the Bieszczady Mts.



Fig. S5. Ascomata of *Scutellinia heterosculpturata* Kullman & Raitv. from the Bieszczady Mts (Oct 05, 2010). Photography by G. Domian.

**Scutellinia kerguelensis* (Berk.) Kuntze; LR: [S5] (as *S. nympharum* (Vel.)), [S1] (as *S. kerguelensis* (Berk.) Kuntze). PP: Tworylczyk valley; VI; beech forest; soil. UP: between Muczne and Tarnawa (769 m asl pass); VIII; roadside; soil.

**Scutellinia minor* (Velen.) Svrček.; NChL; LR: [S1]. Notes: In Poland known only from the Bieszczady Mts.

**Scutellinia nigrohirtula* (Svrček) Le Gal; NChL; LR: [S1]. UP: Ustrzyki Górne (near Kremenaros shelter), Zatwarnica 2 km S (Hylaty valley); VII-VIII; beech forest, *Petasites* shrubs; soil, wood.

*♦ *Scutellinia scutellata* (L.) Lambotte; LR: [S6,S7,S9] (as *Lachnea scutellata* (L.) Gillet), [S5] (as *S. acutellata* (L. ex St. Amans.) Lambotte), [S1]. PP: SW slope of Szeroki Wierch Mt, SW slope of Rozsypaniec Mt, Wołosate (SW slopes of Hudów Wierszek Mt), Jamniczna

(vicinity of Muczne), W from Zatwarnica (Tworylczyk valley), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Suche Rzeki (SE slope of Maguryczy Mt); VI-IX; beech forest, fir-beech forest, mixed forest; wood, *Fagus* log, soil. **UP:** Pszczeliny, Wołosate (horse stud), Wołosate 4 km E (Hawry Forest), Wołosate 2 km NE (N slope of Hudów Wierszek Mt), VII-IX; open place in the stud, near spring, beech forest; wood, soil, herbaceous plant remains.

Scutellinia setosa* (Nees) Kuntze; **LR: [S7,S9] (as *Lachnea setosa* (Nees) Gillet), [S5].

Scutellinia subhirtella* Svrček; **LR: [S1]. **PP:** W slope of Halicz Mt; VIII; *Alnus viridis* shrubs (spring); wood. **UP:** Near Bereżki (NE slope of Kiczera Bereżczańska Mt), NE slope of Wielka Rawka Mt; VIII; roadside ditch, fir-beech forest; soil.

!#*Scutellinia torrentis* (Rehm) T. Schumach. (Fig. S6); **NChL; UP:** Lutowiska (nature trail); VIII; spruce forest; soil. **Notes:** Apothecia gregarious, up to 6 mm in diameter, disciform, with distinct margin, hymenium red, outer surface concolorous and covered with brown hairs. Asci 8-spored, cylindrical, non-amyloid, 200–260 × 15–20 µm. Spores hyaline, ellipsoid, 16–19 × 7.5–12 µm, with guttules, covered with rounded and elongate warts up to 0.7 µm high, forming ridges and incomplete reticulum. Outer spore wall layer loosening in hot lactic acid, forming loose envelope. Paraphyses septate, slender, slightly enlarged at apex, branched, filled with orange guttules. Ectal excipulum of textura globulosa. Marginal hairs up to 300 µm long, septate, with acute apex, somewhat flexuous, thick-walled, brown, with non-branched or bi- or trifurcate base. Specimens seen: 02.08.2011, leg. A. Kujawa, A. Szczepkowski, K. Kujawa, B. Gierczyk, det. B. Gierczyk, fungarium no. 10/BdPN/2.08.11.

*♦*Scutellinia trechispora* (Berk. & Broome) Lambotte; **LR:** [S9] (as *Sphaerospora trechispora* (Berk. & Broome) Sacc.), [S5]. **PP:** Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil.

*♦*Scutellinia umbrorum* (Fr.) Lambotte; **LR:** [S1]. **PP:** Suche Rzeki (Czerteżyk Łocentyków Mt), Wołosate 3.5 km E (Horbki); VII-VIII; beech forest, forest road; soil, *Fagus* log. **UP:** between Muczne and Tarnawa (769 m asl pass), Zatwarnica 2 km S (Hylaty valley), VIII-IX; roadside, spruce forest; soil, wood.

Scutellinia vitreola* Kullman; **NChL; LR: [S1].



Fig. S6. Ascoma of *Scutellinia torrentis* (Rehm) T. Schumach. from the Bieszczady Mts (Aug 02, 2011). Photography by K. Kujawa.

**Scutomollisia stenospora* Nannf.; LR: [S17]. Notes: In Poland known only from the Bieszczady Mts.

#**Spathularia flavida* Pers.; RL-E; PP: Wetlina Górna (BdNP camping place); VI; larch row; soil. UP: Wola Michowa, Wołosate; X; larch forest, meadow; soil.

**Taphrina alni* (Berk. & Broome) Gjaerum; LR: [S9] (as *T. alni-incanae* (Juhn.) Magnus).

#**Tarzetta cupularis* (L.) Svrček; UP: Tworylczyk valley; VI; fir-beech forest; soil.

**Trematosphaeria pertusa* (Pers.) Fuckel; LR: [S5,S6,S10]. Notes: In Poland also known from Białowieża Primeval Forest [S36].

#**Trichophaea gregaria* (Rehm) Boud.; UP: Dwerniczek 1.5 km N, Dwerniczek 3.5 km N, Zatwarnica 2 km S (Hylaty valley); VIII; beech forest, roadside; soil.

**Valsa abietis* Fr.; LR: [S6,S7]. Notes: In paper published in 1967 [S7] mentioned with “?” mark.

*♦ *Valsa ambiens* (Pers.) Fr.; LR: [S6].

**Valsa auerswaldii* (Nitschke) Quél.; LR: [S7,S9].

**Valsa coenobitica* Ces. & De Not.; LR: [S9]. Notes: In Poland also known from Augustów Primeval Forest [S37].

**Valsa diatrypoides* Rehm; LR: [S5,S7]. Notes: In Poland known only from the Bieszczady Mts.

?*Valsa dolosa* (Fr.) Nitschke; LR: [S9]. Notes: Species of uncertain taxonomic value [S18].

**Valsa malicola* Z. Urb.; LR: [S5,S9].

**Valsa nivea* (Hoffm.) Fr.; LR: [S9].

**Valsa pustulata* Auersw.; LR: [S5].

**Valsa rubi* Fuckel; LR: [S6] (as *V. fuckelii* Nke.), [S9,S10] (as *V. decorticans* Fr.).

**Valsa salicina* (Pers.) Fr.; LR: [S5].

♦ *Verpa conica* (O.F. Müll.) Sw.; RL-R, PaP; LR: [S1,S4].

!#*♦ *Vibrissea decolorans* (Saut.) A. Sánchez & Korf (Fig. S7); NChL; PP: Wetlina (Górna Solinka valley, Mohyłka); VI; stream; wood. Notes: Apothecia turbinate, up to 5 mm, substipitate, hymenium yellowish to dirty greenish yellow, convex, outside blackish. Asci with amyloid pore, 8-spored, cylindrical, 300–400 × 6–7.5 µm. Spores filiform, multiseptate, hyaline, 280–350 × 1–2 µm. Paraphyses slender, cylindrical with inflated apex, sparsely branched. Croziers present. Ectal excipulum of textura globulosa. Specimens seen: 03.06.2010, leg. B. Gierczyk, T. Pachlewski, det. A. Kujawa, fungarium no. BdPN-01368.



Fig. S7. Ascomata of *Vibrissea decolorans* (Saut.) A. Sánchez & Korf (Jun 03, 2010).
Photography by T. Pachlewski.

#*♦ *Vibrissea truncorum* (Alb. & Schwein.) Fr.; **PP:** Połonina Wetlińska Mt; VI; herbaceous shrubs; *Sorbus aucuparia* wood. **Notes:** In Poland known from two contemporary localities [S47,S48] and some historical ones [S8,S30,S31].

***♦ *Xylaria carpophila* (Pers.) Fr.;** **LR:** [S1,S4]. **PP:** W from Zatwarnica (Tworylczyk valley), Wołosate (Bukowinki – S slope of Wysoki Wierch Mt), Wetlina (Lutowy valley), Suche Rzeki (W slope of Jawornik Mt); VI; mixed forest, beech forest, fir-beech forest; *Fagus* cupules. **UP:** Moczarne; V; beech forest; *Fagus* cupules.

#*♦ *Xylaria filiformis* (Alb. & Schwein.) Fr.; **PP:** Tarnawa Niżna; VI; roadside; herbaceous plant remains.

***♦ *Xylaria hypoxylon* (L.) Grev.;** **LR:** [S1,S6,S9,S12], [S5,S7] (as *Xylospheera hypoxylon* (L.) Grev.). **PP:** Wetlina (Górna Solinka valley); X; fir-beech forest; *Fagus* log. **UP:** Lutowska (nature trail); VIII; beech forest; trunk.

*♦ *Xylaria longipes* Nitschke; LR: [S1,S11]. UP: Wetlina (Górna Solinka valley); X; beech forest; wood.

*♦ *Xylaria polymorpha* (Pers.) Grev.; LR: [S1,S4,S6,S9,S12], [S5,S7] (as *Xylosphaera polymorpha* (Pers. ex Merát) Dumortier). UP: Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), Rozsypaniec Mt 1 km SW; IX; beech forest; *Fagus* wood, *Acer pseudoplatanus* wood.

**Zignoëlla fallax* (Sacc.) Sacc.; LR: [S5].

BASIDIOMYCOTA

**Agaricus arvensis* Schaeff.; LR: [S7,S9]

#*Agaricus augustus* Fr.; UP: Pszczeliny 2 km W (SE slope of Kosowiec Mt); VIII; fir-beech forest; soil.

*♦ *Agaricus campestris* L.; LR: [S9] (as *A. campester* (L.) Fr.).

?*Agaricus comtulus* Fr.; RL-R; LR: [S1,S5] Notes: In consideration of recently published critical monographs of genus *Agaricus* [S49,S50], all records of the species belonging to sect. *Minores* should be revised by molecular analyses.

?♦ *Agaricus dulcidulus* Schulzer; LR: [S9]. Notes: In the previous paper by Gierczyk et al. [S1] the authors accepted the concept of Wojewoda [S51], that *A. dulcidulus* Schulzer is synonymous with *A. niveolutescens* Huijsman. However, according to Knudsen et al. [S52] *A. dulcidulus* Schulzer is conspecific with *A. semotus* Fr., since *A. niveolutescens* Huijsman has been included into *A. comtulus* Fr. Parra [S50] recognized *A. semotus* Fr. as *nomen dubium*, while *A. dulcidulus* Schulzer he accepted as good species. The data from the Bieszczady Mts needs revision by molecular methods.

?♦ *Agaricus semotus* Fr.; LR: [S9]. UP: Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil. Notes: According to Parra [S50] it is a *nomen dubium*. Material from the Bieszczady Mts needs molecular analysis.

Agaricus sylvaticus Schaeff.; LR: [S7].

*♦ *Agaricus sylvicola* (Vittad.) Peck s.str.; LR: [S4,S9]. PP: W from Bereżki; VIII; spruce forest; soil.

#!* *Agrocybe elatella* (P. Karst.) Vesterh.; RL-R; PP: Wetlina Górna (BdNP camping place); VI; meadow; soil. UP: Brzegi Górne 2.5 km E; VII; meadow; soil.

*♦ *Agrocybe firma* (Peck) Singer; RL-E; LR: [S7,S53]. UP: Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt); IX; beech forest; wood.

!#!* *Agrocybe gibberosa* (Fr.) Singer; NChL; PP: S from Bereżki (Zwir valley – Polanki); VI; shrubs by the stream; soil. Notes: Basidiocarps small, cap 2.5–3 cm in diameter, convex to plano-convex, ocher buff, yellowish buff, pale rusty brown, pallescent with age. Gills adnate, brown, moderately crowded, with white margin. Stipe cylindrical with slightly bulbous base, pale ocher to pale brown. Ring membranous, loose, quickly disappearing, veil also as patches adhering to cap margin. Taste and smell farinaceous. Spores ellipsoid, flattened, umber to brown, $7.5\text{--}8.5 \times 5\text{--}6 \mu\text{m}$, with germ pore. Basidia 4-spored. Cheilocystidia utriform, lageniform, sometimes clavate. Pleurocystidia similar to cheilocystidia. Pileipellis hymeniform, composed of pyriform elements. Stipitipellis a cutis. Clamps present. Specimens seen: 27.06.2009, leg. A. Kujawa, det. B. Gierczyk, fungarium no. BdPN-00633.

* *Agrocybe pediades* (Fr.) Fayod; LR: [S9] (as *A. semiorbicularis* (Bull.) Fayod), [S1]. PP: Bereżki, Berehy Górne; VI; shrubs by the stream, meadow; soil.

*♦ *Agrocybe praecox* (Pers.) Fayod s.l.; LR: [S1,S4].

*♦ *Aleurodiscus amorphus* (Pers.) J. Schröt.; RL-R; LR: [S4,S5,S9]. PP: Wetlina (Górna Solinka valley, Chyżyszcze); VI; beech forest; *Abies* wood. UP: Lutowiska (nature trail); VIII; mixed forest; *Abies* branch.

* *Amanita battarae* (Boud.) Bon; RL-R; LR: [S1,S4]. PP: SW slope of Połonina Wetlińska Mt, Zatwarnica; VI-VIII; beech forest, fir-beech forest; soil. UP: Stuposiany 2 km SW (S slope of Prypiczek Mt), Widelki 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦ *Amanita crocea* (Quél.) Singer; LR: [S1]. UP: Wołosate (cemetery), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt); VII-VIII; tree clump, deciduous forest; soil.

*♦ *Amanita excelsa* (Fr.) Bertill. f. *excelsa*; LR: [S1,S4], [S5,S6,S7,S13] (as *A. spissa* (Fr.) Quéll.). UP: Berezki 2 km NW, Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt), Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), S from Wetlina (E slope of Jawornik Mt); VIII-IX; beech forest, fir-beech forest; soil.

*♦ *Amanita fulva* (Schaeff.) Fr.; LR: [S1,S4,S6,S9]. PP: SW slope of Połonina Wetlińska Mt (near BdNP camping place), Wołosate (N slope of Kiczera Mt, Za Potok); VIII; beech forest; soil. UP: Wetlina (Górna Solinka valley), Pszczeliny-Widelki 2.5 km W (SE slope of Magura Stuposiańska Mt); VII-VIII; beech forest, forest margin; soil.

*♦ *Amanita muscaria* (L.) Pers. var. *muscaria*; LR: [S1,S4,S6,S9,S12]. PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wetlina (Górna Solinka valley, Chyżyszcze); X; spruce-beech forest, spruce brushwood; soil. UP: Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

**Amanita muscaria* (L.) Pers. var. *regalis* Fr.; RL-V; LR: [S4] (as *A. regalis*). UP: Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt), Tarnawa Bog 2.5 km SW; VIII; mixed forest, fir-beech forest; soil.

*♦ *Amanita pantherina* (DC.) Krombh.; LR: [S1].

*♦ *Amanita phalloides* (Vaill.) Link var. *phalloides*; LR: [S1,S7,S54]. PP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek Mt); VI; fir-beech forest; soil.

**Amanita porphyria* Alb. & Schwein.; LR: [S9] (as *A. porphyrea* (Alb. ex Schwein.) Secr.), [S1,S55].

*♦ *Amanita rubescens* Pers. f. *rubescens*; LR: [S1,S5,S6,S7,S9]. PP: Wołosate 3.5 km E (Horbki), Beniowa (slope of Kiczera Beniowska Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Suche Rzeki (E slope of Maguryczy Mt), W from Zatwarnica (Tworylczyk valley), Wetlina Górna (BdNP camping place); VI-VIII; beech forest, fir-beech forest, roadside; soil. UP: Lutowiska 2.6 km SW, Lutowiska 7 km SW, between Muczne and Tarnawa (769 m asl pass), Czarna 5 km S, Dwernik 1.5 km NE, near Tarnawa Wyżna (3 km SW from Tarnawa bog), Zatwarnica 2 km S (Hylaty valley), Ustrzyki Górne 5 km W (slope of Wielka Rawka

Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 1.5 km SE (NE slope of Kiczera Mt); VII-VIII; beech forest, fir-beech forest, mixed forest, deciduous forest; soil.

#Amanita spadicea* Pers.; NChL; PP:** Wetlina Górna (BdNP camping place), beech forest; soil. **UP:** S from Zatwarnica (Hylaty valley, Izwir), between Muczne and Tarnawa (769 m asl pass); VIII-IX; beech forest, fir forest; soil. **Notes:** In Poland known also from Sudety Mts [S33].

****Amanita submembranacea* (Bon) Gröger var. *submembranacea*; LR:** [S4]. **PP:** Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley), Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, Chyzyszcze), Wołosate (N slope of Kiczera Mt, Za Potok); VIII, X; beech forest, fir-beech forest; soil. **UP:** Widełki 2 km W (SE slope of Magura Stuposiańska); VIII; fir-beech forest; soil.

***♦*Amanita vaginata* (Bull.) Lam. var. *vaginata*; LR:** [S1,S4,S5,S6,S9], [S7,S13] (as *Amanitopsis vaginata* (Bull.) Roze f. *vaginata*). **PP:** Pszczeliny (NW slope of Widełki Mt), Suche Rzeki (Czerteżyk Łocentyków), Nasiczne (E slope of Magura Nasiczańska Mt); VI-VIII; beech forest, fir-beech forest, shrubs by the stream; soil. **UP:** Wetlina (Górna Solinka valley), Lutowiska 2.5 km SW, Wołosate 1 km S, Ustrzyki Górne 5 km W (slope of Wielka Rawka Mt), Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), Pszczeliny-Widełki (3 km SE from forester's lodge), Wołosate 2 km NE (N slope of Hudów Wierszek Mt), Bereżki 1.5 km SE (S slope of Kiczera Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), vicinity of Muczne (Jamniczna), Bereżki 1 km W, Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt); VII-X; beech forest, fir forest, fir-beech forest, deciduous forest; soil.

****Amanita virosa* (Fr.) Bertill.; RL-V; LR:** [S6,S13]. **PP:** Wołosate (SW slope of Semków Wierszek Mt); VIII; beech forest; soil.

***Amphinema byssoides* (Pers.) J. Erikss.; LR:** [S7].

***♦*Ampulloclitocybe clavipes* (Pers.) Redhead, Lutzoni, Moncalvo & Vilgalys; LR:** [S1,S6,S7,S13]. **UP:** Wetlina (Rowiń Forest), Zatwarnica 3 km S (Hriadnik), Wetlina (Górna Solinka valley), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2

km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII-X; beech forest, fir-beech forest; soil.

*♦*Amylostereum chailletii* (Pers.) Boidin; LR: [S1,S7,S56]. UP: Dwerniczek 2.5 km N; VIII; beech forest, *Abies* log.

**Amylostereum laevigatum* (Fr.) Boidin; LR: [S1,S56]. PP: near Wołosate (Wołosatka valley, Mochnaczka); VIII; roadside, *Juniperus* wood.

*♦*Antrodia albida* (Fr.) Donk; LR: [S6] (as *Trametes albida* (Fr.) Bourd. & Galz.), [S7,S9,S57] (as *Coriolellus albidus* (Fr.) Bond.), [S5] (as *C. serpens* (Fr.) Bond.), [S1] (as *A. heteromorpha* (Fr.) Donk). Notes: Wojewoda [S51] synonymized *A. albida* (Fr.) Donk with *A. heteromorpha* (Fr.) Donk. This concept has also been used by Gierczyk et al. [S1]. Specimens from the Bieszczady Mts belong to *A. albida* (Fr.) Donk.

**Antrodia gossypium* (Speg.) Ryvarden; RL-V; LR: [S9,S57] (as *Tyromyces resupinatus* (Bourd. & Galz. ex Pil.) Bond. & Sing.).

**Antrodia kuzyana* (Pilát ex Pilát) Spirin & Vlasák; NChL; LR: [S58] (as *Funalia kuzyana* (Pil. ex Pil.) Bond.), [S59]. Notes: In Poland known only from the Bieszczady Mts. By Wojewoda [S51] considered as synonym of *A. malicola* (Berk. & M.A. Curtis) Donk.

*♦*Antrodia lenis* (P. Karst.) Ryvarden; RL-V; LR: [S6] (as *Poria lenis* P. Karst.), [S5,S7] (as *Amyloporia lenis* (P. Karst.) Bondartsev & Singer).

?♦*Antrodia malicola* (Berk. & M.A. Curtis) Donk; RL-E; LR: [S5,S9,S60] (as *Coriolellus malicola* (Berk. & Curt.) Murr.), [S61]. Notes: According to Spirin et al. [S59] specimens collected by Domański in 1965 (Dwernik village, on *Salix fragilis*) belong to *A. kuzyana* (Pilát ex Pilát) Spirin & Vlasák. This locality has been published by Domański et al. [S5] and mentioned by Domański [S60] and Piątek [S61] as *A. malicola* (Berk. & M.A. Curtis) Donk. Therefore, considering results of molecular studies published [S59], other specimens of *Antrodia malicola* (Berk. & M.A. Curtis) Donk from the Bieszczady Mts need revision.

*♦*Antrodia mellita* Niemelä & Penttillä; LR: [S1,S4].

*♦*Antrodia serialis* (Fr.) Donk; LR: [S6] (as *Trametes serialis* Fr. f. *resupinata* Fr.), [S5,S7,S9] (as *Coriolellus serialis* (Fr.) Murrill f. *serialis*, *C. serialis* (Fr.) Murrill f. *callosus* (Fr.) Domań. and *C. serialis* (Fr.) Murrill f. *resupinatus* Bourd. & Galz.).

♦*Antrodia sinuosa* (Fr.) P. Karst.; RL-R; LR: [S7] (as *Coriolellus sinuosus* (Fr.) Sarkar).

#*Antrodiella faginea* Vampola & Pouzar; UP: Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Fagus* trunk.

##**Antrodiella pallescens* (Pilát) Niemelä & Miettinen (Fig. S8); UP: S from Zatwarnica (Hylaty valley, Izwir), Ustrzyki Górne 1.5 km NW (by the tourist trail to Połonina Caryńska Mt), Hnyła valley (by the tourist trail to Bukowska Pass), near Ustrzyki Górne (by the tourist trail to Wierch Mt); VIII-IX; beech forest; *Fagus* log, *Fomes fomentarius* basidiomata.



Fig. S8. Basidiomata of *Antrodiella pallescens* (Pilát) Niemelä & Miettinen from the Bieszczady Mts (Sep 07, 2011). Photography by K. Kujawa.

**Antrodiella romellii* (Donk) Niemelä; RL-R; LR: [S5] (as *Tyromyces byssinus* (Pers.) Bondartsev), [S62].

*♦ ***Antrodiella serpula* (P. Karst.) Spirin & Niemelä; RL-R; LR:** [S5,S6,S7] (as *Trametes hoehnelii* (Bres.) Pil.), [S9,S63] (as *Coriolus hoehnelii* (Bres.) Bourd. & Galz. and *C. hoehnelii* (Bres.) Bourd. & Galz. f. *resupinatus* Domański), [S1]. **PP:** Ustrzyki Górne 2 km SW (Wierch Mt), Ustrzyki Górne 3.5 km SW (Czuryłowo), Pszczeliny (NW slope of Widelki Mt), Wołosate 3.5 km E (Horbki), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Wołosate (SW slope of Semków Wierszek Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Tworylczyk valley; VI-VIII; beech forest; *Fagus* logs and branches, basidiomata of *Inonotus* sp. (on *Fagus*). **UP:** Ustrzyki Górne 5 km W (slope of Wielka Rawka Mt), Ustrzyki Górne 1.5 km NW (by the tourist trail to Połonina Caryńska Mt), Near Bereżki (NE slope of Kiczera Bereźczańska Mt), Bereżki 2 km NW, vicinity of Muczne (Jamniczna), Hulskie NR, Krywe NR, S from Wetlina (E slope of Jawornik Mt), Sine Wiry NR (S slope of Połoma Mt); VIII-IX; beech forest, fir-beech forest, hornbeam forest; *Fagus* logs and trunk, *Corylus* branch.

?♦ ***Antrodiella semisupina* (Berk. & M.A. Curtis) Ryvarde; RL-I; LR:** [S6] (as *Leptoporus semisupinus* (B. & C.) Pil.), [S7,S9] (as *Tyromyces semisupinatus* (Berk. & Curt.) Murr.). **Notes:** *A. semisupina* (Berk. & M.A. Curtis) Ryvarde is a North American species, decomposing dead wood of *Quercus* sp. Correct name for similar European species, forming resupinate-reflexed basidiocarps, growing on wood inhabited by *Fomes fomentarius*, is *A. pallescens* (Pilát) Niemelä & Miettinen. Revision of the specimens mentioned by Domański et al. [S6,S7,S9] is needed.

#*♦ ***Armillaria cepistipes* Velen.; PP:** Wołosate (by the tourist trail to Tarnica Mt), Tworylczyk valley; VI; beech forest, mixed forest; *Fagus* log. **UP:** Wołosate (by water intake), Wetlina (Rowiń Forest), Wetlina (Górna Solinka valley), Wołosate 4 km E (Hawry Forest), Wołosate (Bukowinki, S slope of Wysoki Wierch Mt); VI-X; shrubs, beech forest, mixed forest; soil, *Fagus* log.

#*♦ ***Armillaria lutea* Gillet; PP:** W from Zatwarnica (Tworylczyk valley), Nasiczne (E slope of Magura Nasiczańska Mt), Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wetlina (Górna Solinka valley, Chyżyszcze), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki); VI, X; beech forest, mixed forest, fir-beech forest; *Fagus* logs and trunks.

?♦ *Armillaria mellea* (Vahl) P. Kumm. s.l.; LR: [S1,S13,S55,S64], [S5,S6] (as *Armillariella mellea* (Vahl. in Fl. Dan.) P. Karst.). Notes: Since this species has been split into four taxa, the identity of the specimens mentioned as *A. mellea* s.l. or reported as *Armillaria* (or *Armillariella*) *mellea* in earlier literature is unclear.

*♦ *Armillaria ostoyae* (Romagn.) Herink; LR: [S12]. PP: Wetlina (Górna Solinka valley, Chyzyszcze), Wetlina (Górna Solinka valley, SW slope of Kiczera Mt), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest; trunk. UP: Wola Michowa, Wołosate (near water intake), Wetlina (Rowiń Forest), Pszczeliny (Widelki); X; beech forest; shrubs; soil, wood.

Armillaria tabescens (Scop.) Emel; RL-E; LR: [S7] (as *Armillariella tabescens* (Scop.) P. Karst.).

*♦ *Arrhenia epichysium* (Pers.) Redhead, Lutzoni, Moncalvo & Vilgalys; RL-V, SSI(B); LR: [S5,S9] (as *Omphalina epichysium* (Pers.) Quél.).

**Arrhenia gerardiana* (Peck) Elborne; RL-V; LR: [S1] (as *A. sphagnicola* (Berk.) Redhead, Lutzoni, Moncalvo & Vilgalys), [S4] (as *Omphalina sphagnicola*). PP: Dźwiniacz Bog; X; bog margin; *Sphagnum*, mosses.

**Arrhenia retiruga* (Bull.) Redhead; RL-E; LR: [S1]. PP: Berehy Górne, Wetlina (Górna Solinka valley, Kohutowa Hora), Wetlina (Górna Solinka valley, Chyzyszcze); VI; beech forest, overgrowing meadow; mosses.

**Arrhenia rustica* (Fr.) Redhead, Lutzoni, Moncalvo & Vilgalys; LR: [S9] (as *Omphalina rustica* (Fr.) Quél.).

*♦ *Artomyces pyxidatus* (Pers.) Jülich; RL-V, SSI(A); LR: [S1] (as *Clavicornia pyxidata* (Pers.) Doty), [S4] (as *A. pyxidata*). PP: Wetlina (Górna Solinka valley), W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (Czerzeżyk Łocentyków), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki), S slope of Połonina Wetlińska Mt; VI; beech forest, fir-beech forest, mixed forest; *Fagus* log, wood. UP: Berehy Górne 1.5 km E, Bereżki 1.5 km SE (S slope of Kiczera Mt), Zatwarnica 3 km S (Hriadnik), SW from Smerek (NE slope of Fereczata Mt); VII, IX; deciduous forest, beech forest; *Fagus* trunk, wood.

Asterophora lycoperdoides* (Bull.) Ditmar; **RL-R; LR: [S4,S7]. **UP:** Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; decaying basidiomata of agaricoid fungi.

Athelia arachnoidea* (Berk.) Jülich; **LR: [S65].

Athelia epiphylla* Pers.; **LR: [S5].

?*Athelia pellicularis* (P. Karst.) Donk; **LR:** [S7]. **Notes:** According to Wojewoda [S51] it is *nomen dubium*. The condition of the specimen preclude determination's verification. In original paper [S7] mentioned with “?”.

*♦*Auricularia auricula-judae* (Bull.) J.Schröt.; **LR:** [S5,S66] (as *Hirneola auricula-judae* (Bull. ex St. Amans) Berk.), [S4]. **PP:** Zatwarnica, Suche Rzeki (SE slope of Maguryczy Mt), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), S from Bereżki (Zwir valley – Polanki), S from Suche Rzeki; VI; beech forest, *Alnetum incanae*, shrubs near the stream, mixed forest; *Fagus* log, *Sambucus nigra* branches, *Acer pseudoplatanus* log.

*♦*Auricularia mesenterica* (Dicks.) Pers.; **RL-R; LR:** [S9,S66].

!#♦*Auriporia aurulenta* A. David, Tortič & Jelič (Fig. S9); **NChL; UP:** Dwerniczek 2 km N; VIII; beech forest; *Abies* log. **Notes:** Basidiocarps resupinate, ca. 4 mm thick and up to 10 cm long, annual. Pore surface orange to yellowish orange, becoming violet in KOH solution. Pores rounded to slightly angular, 2–3 per mm. Basidiocarp margin fimbriate, concolorous. Basidia 4-spored. Spores ellipsoid, hyaline, smooth, without iodine reaction, 5–6 × 2.5–3 μm. Cystidia dimorphic: lamprocystidia thick-walled, fusiform to lageniform, with abundant crystals at apex, leptocystidia thin-walled, lageniform with flexuous neck. Hyphal system monomitic with abundant gleoplerous hyphae. Clamps present. Specimens seen: 03.08.2011, leg. A. Kujawa, K. Kujawa, det. A. Kujawa, fungarium no. 66/BdPN/3.08.11; 04.08.2011, leg. & det. A. Szczepkowski, WAML602. In Poland found also in Magura NP (Chachuła; unpublished data).



Fig. S9. Basidiomata of *Auriporia aurulenta* A. David, Tortič & Jelič from the Bieszczady Mts (Sep 05, 2011). Photography by K. Kujawa.

**Auriscalpium vulgare* Gray; LR: [S4]. PP: S from Bereżki (Zwir valley – Polanki); VI; roadside; *Pinus* cone. UP: Lutowiska (nature trail), Bereżki 1.5 km SE (S slope of Kiczera Mt); VIII-IX; deciduous forest, mixed forest; *Pinus* cone.

**Baeospora myosura* (Fr.) Singer; LR: [S4]. PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt), Beniowa (Szczob); VIII, X; beech forest, spruce-beech forest; *Picea* cone. UP: Wetlina (Górna Solinka valley), Czarna 5 km S, Bereżki 1.5 km SE (S slope of Kiczera Mt); VIII-X; spruce forest, deciduous forest, deciduous forest; *Picea*, *Abies* and *Pinus* cones.

*♦*Basidioradulum radula* (Fr.) Nobles; LR: [S7] (as „*Radulum*” *orbiculare* Fr.), [S1,S5].

*♦*Bjerkandera adusta* (Willd.) P. Karst.; LR: [S6] (as *Gleoporus adustus* (Willd.) Pilát. and *G. adustus* (Willd.) Pilát. f. *resupinatus* Bourdot & Galzin), [S9] (*B. adusta* (Willd.) P. Karst. and *B. adusta* (Willd.) P. Karst. f. *resupinata* Bres.), [S1,S5,S7,S12]. PP: Wołosate (SW slope of Semków Wierszek Mt), Wołosate (N slope of Kiczera Mt, Za Potok), W from Zatwarnica (Tworylczyk valley), Wetlina (Górna Solinka valley); VI-VIII; beech forest, fir-

beech forest; *Fagus* trunk and logs. **UP:** Lipie 2 km S, near Tarnawa Górna (3.5 km SW from Tarnawa bog), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; roadside, mixed forest, fir-beech forest; *Larix* log, *Fagus* log, soil mixed with wood remains.

*♦*Bjerkandera fumosa* (Pers.) P. Karst.; **LR:** [S6] (as *Gleoporus fumosus* (Pers.) Pilát), [S9] (as *B. fumosa* (Pers.) P. Karst. f. *carpatica* Domań.).

Bolbitius coprophilus* (Peck) Hongo (Fig. S10); **NChL; LR: [S67]. **PP:** Wołosate (horse stud); VI; horse stud site; manure. **UP:** Wołosate (horse stud); VII, IX; horse stud site; *Equus caballus* dung, manure.

##*Bolbitius pluteoides* M.M. Moser; **NChL; UP:** Zatwarnica; VI; beech forest; *Fagus* log. **Notes:** Species often considered as a synonym of *B. reticulatus* (e.g. by Wojewoda [S51]).

*♦*Bolbitius reticulatus* (Pers.) Ricken f. *reticulatus*; **RL-R; LR:** [S1]. **PP:** Suche Rzeki (Czerzeżyk Łocentyków); VI; beech forest; *Fagus* log.

##*Bolbitius reticulatus* (Pers.) Ricken f. *aleuriatus* (Fr.) Enderle; **RL-R; PP:** Ustrzyki Górne 3.5 km SW (Czuryłowo), Wołosate 3.5 km E (Horbki); VIII; beech forest; *Fagus* log.

*♦*Bolbitius titubans* (Bull.) Fr.; **LR:** [S5,S6,S7,S9] (as *B. vitellinus* (Pers.) Fr. var. *titubans* (Bull.), *B. vitellinus* (Pers.) Fr. var. *fragilis* (L.) and *B. vitellinus* (Pers.) Fr. var. *vitellinus*), [S1,S4]. **PP:** Ustrzyki Górne 2 km SW (Wierch Mt), Tarnawa (horse stud), Dźwiniacz, Berezki, Wołosate (horse stud), Wetlina Górna (BdNP camping place); VI-VIII; roadside, stud, shrubs by the stream, meadow; soil, hay, *Equus caballus* dung, manure, herbaceous plant remains. **UP:** Lutowska 2 km W, Beniowa 6.3 km S, near Berezki (NE slope of Wierch Mt); VIII; meadow, roadside; litter, herbaceous plant remains, soil.

!##*Bolbitius variicolor* G.F. Atk.; **NChL; PP:** Wołosate (horse stud); VI; horse stud site; soil, *Equus caballus* dung, manure. **Notes:** Species similar to *B. titubans* (Bull.) Fr., but with olive brown or olive caps and more stout basidiocarps. Cap surface distinctly reticulate. Specimens seen: 01.06.2010, *leg.* & *det.* T. Pachlewski, fungarium no. BdPN-01404; 26.06.2009, *leg.* T. Pachlewski, *det.* A. Kujawa, fungarium no. BdPN-00924; 05.06.2010, *leg.* & *det.* A. Kujawa, B. Gierczyk, fungarium no. BdPN-01326.



Fig. S10. Basidiomata of *Bolbitius coprophilus* (Peck) Hongo from the Bieszczady Mts (Jun 02, 2015). Photography by T. Pachlewski.

**Boletus appendiculatus* Schaeff.; RL-V; LR: [S1].

*♦*Boletus calopus* Pers.; RL-R; LR: [S1,S4,S5,S13]. PP: Syhłowaty valley; VIII; fir-beech forest; soil. UP: SE from Wetlina (Górna Solinka valley), Czarna 5 km S, Tarnawa Bog 2.5 km SW, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt); VII-VIII; beech forest, deciduous forest, mixed forest, fir-beech forest; soil.

*♦*Boletus edulis* Bull.; LR: [S1,S6,S7,S9,S13]. PP: Wołosate (Polaniec valley); VIII; beech forest; soil. UP: Zatwarnica 2 km S (Hylaty valley), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII; beech forest, fir-beech forest; soil.

*♦*Boletus luridiformis* Rostk. var. *luridiformis*; LR: [S6,S7] (as *B. erythropus* Fr.), [S1,S4]. PP: Nasiczne (Izwir), Beniowa (Syhłowaty valley), Hylaty valley, Tworylczyk valley; VI-VIII; beech forest, fir-beech forest; soil. UP: Lutowiska 2.6 km SW, Lutowiska (nature trail), Czarna 5 km S, Pszczeliny-Widełki (3 km SE from forester's lodge), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Near Bereżki (NE slope of Kiczera Bereźczańska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VII-IX; beech forest, spruce forest, fir forest, fir-beech forest; soil.

*♦*Boletus luridus* Schaeff. var. *luridus*; LR: [S1,S4,S68].

*♦*Boletus reticulatus* Schaeff.; LR: [S1,S4]. PP: Beniowa (Syhłowaty valley); VIII; fir-beech forest; soil.

*♦*Boletus subappendiculatus* Dermek, Lazebn. & J. Veselský; NChL; LR: [S4]. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.



Fig. S11. Basidiomata of *Bondarzewia mesenterica* (Schaeff.) Kreisel from the Bieszczady Mts (Aug 17, 2009). Photography by G. Domian.

*♦ *Bondarzewia mesenterica* (Schaeff.) Kreisel (Fig. S11); RL-V, PaP; LR: [S5,S55] (as *B. montana* (Quél.) Singer), [S1,S4,S12,S69]. PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest; *Abies* trunk base. UP: S from Zatwarnica (Hylaty valley, Izwir), SW from Zatwarnica (Hulski valley), SW from Muczne (Jamniczna), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Sękowiec 3.5 km NNE (by the tourist trail near Hulskie NR), Dwerniczek 2 km N (S slope of Trohaniec Mt), Rabe 2.5 km NW (NE slope of Chryszczata Mt); VIII-IX; beech forest, fir-beech forest; *Abies* trunk base, *Abies* roots.

**Botryobasidium conspersum* J. Erikss.; LR: [S1].

**Botryobasidium intertextum* (Schwein.) Jülich & Stalpers; LR: [S4].

Botryobasidium laeve (J. Erikss.) Parmasto; **RL-R**; **LR**: [S7] (as *B. pruina* (Bres.) J. Erikss. var. *laeve* J. Erikss.), [S70].

Botryobasidium medium* J. Erikss.; **LR: [S1].

Botryobasidium subcoronatum* (Höhn. & Litsch.) Donk; **LR: [S1,S5,S7,S9].

Botryohypochnus isabellinus* (Fr.) J. Erikss.; **LR: [S7,S9].

*♦*Bovista nigrescens* Pers.; **LR**: [S1,S4,S5,S7,S9]. **PP**: Tarnawa (Szyryń), Dźwiniacz (by the road to cemetery), Dźwiniacz (cemetery), near Wołosate (N slope of Kiczera Mt, Mochnaczka), S from Suche Rzeki, Wetlina Górna (BdNP camping place), Wetlina (Lutowy valley); VI-VIII; meadow, roadside; soil. **UP**: Wołosate, Bereżki (NE slope of Wierch Mt); VIII-IX; meadow; soil.

Bovista plumbea* Pers.; **LR: [S1,S4,S7,S9]. **PP**: Berehy Górne, Dźwiniacz (cemetery); VI; roadside, meadow; soil.

Brevicellicium olivascens (Bres.) K.H. Larss. & Hjortstam; **LR**: [S7] (as *Grandinia mutabilis* (Pers.) Bourdot & Galzin).

*♦*Byssomerulius corium* (Pers.) Parmasto; **LR**: [S1].

*♦*Calocera cornea* (Batsch) Fr.; **LR**: [S1,S5,S6,S9,S12]. **PP**: Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), W from Zatwarnica (Tworylczyk valley), S from Bereżki (Zwir valley – Polanki); VI; beech forest, fir-beech forest, deciduous forest, mixed forest; *Fagus* branches and logs, *Alnus incana* wood, *Corylus* branch. **UP**: near Tarnawa Górna (3.5 km SW from Tarnawa bog), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW; VIII; mixed forest, fir-beech forest; *Fagus* log.

Calocera furcata* (Fr.) Quél.; **RL-R; **LR**: [S71]. **PP**: Wołosate (N slope of Kiczera Manzowa Mt), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Suche Rzeki (W slope of Jawornik Mt); VI-VIII; beech forest, fir-beech forest; *Abies* wood, *Fagus* branch. **UP**: Dwerniczek 2 km N, Moczarne; VI-VIII; beech forest; wood.

*♦*Calocera viscosa* (Pers.) Fr.; **LR**: [S1,S5,S6,S12]. **PP**: SE from Bereżki (NW slope of Widełki Mt), Wołosate 3.5 km E (Horbki), Beniowa (Syhłowaty valley), Beniowa (slope of

Kiczera Beniowska Mt), Beniowa (Szczob), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); VIII-X; beech forest, spruce forest, fir-beech forest; wood, *Abies* trunk. **UP:** Lutowska 2.6 km SW, NNW from Zatwarnica (near Hulskie NR), Czarna 5 km S, S from Zatwarnica (Hylaty valley, Izwir), SW from Zatwarnica (Hulski valley), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Near Berezki (NE slope of Kiczera Berezczajska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Berezki 2 km NW, Sękowiec 3 km NNE (by the tourist trail near Hulskie NR), N from Jabłonki (by the tourist trail to Woronikówki NR); VII-IX; beech forest, fir forest, deciduous forest, fir-beech forest; wood, *Abies* trunk, coniferous branch.

Calyptrina capula* (Holmsk.) Quél.; **RL-R; LR: [S1,S4]. **PP:** Dźwiniacz (near cemetery), Wetlina (Lutowy valley); VI, X; roadside ditch, shrubs by the stream; *Cirsium* stems, *Juncus* leaves. **UP:** E slope of Połonina Wetlińska Mt, Ustrzyki Górne (N part), Zatwarnica 2 km S (Hylaty valley); VI-VII; roadside, *Alnetum incanae*; *Urtica dioica* stems, *Petasites* petioles.

?*Camarophyllus alpinus* M.M. Moser; **RL-V; LR:** [S4,S9]. **Notes:** Species not mentioned in current monographs of *Hygrocybe* s.l., needs critical revision [S72,S73,S74].

*♦*Cantharellula umbonata* (J.F. Gmel.) Singer; **LR:** [S13].

*♦*Cantharellus amethysteus* (Quél.) Sacc. (Fig. S12); **NChL; LR:** [S6] (as *C. cibarius* Fr. var. *amethysteus* Quél.), [S1]. **PP:** Beniowa (slope of Kiczera Beniowska Mt), Tarnawa Niżna (Szyryń), Ustrzyki Górne 3.5 km SW (Czuryłowo), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt); VIII; beech forest, fir-beech forest, shrubs near the stream; soil. **UP:** Wetlina (Rowiń Forest), Wetlina (E slope of Jawornik Mt), Dwerniczek 2 km N, Czarna 5 km S, Dwernik 1.5 km NE, Zatwarnica 3 km S (Hriadnik), SW from Zatwarnica (Hulski valley), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), NE slope of Wielka Rawka Mt, Hulskie NR, Chmiel 3.5 km NW (SSW slope of Otryt Niżny Mt), Dwerniczek 2 km N (S slope of Trohaniec Mt); VIII-X; beech forest, deciduous forest, fir-beech forest; soil. **Notes:** According to MycoBank [S18] it is a synonym of *C. cibarius* Fr., while in other sources regarded as separated taxon [S75].



Fig. S12. Basidiomata of *Cantharellus amethysteus* (Quél.) Sacc. from the Bieszczady Mts (Aug 03, 2011). Photography by K. Kujawa.

*♦ *Cantharellus cibarius* Fr.; LR: [S1,S4,S5,S7,S9,S12]. PP: Wołosate (S slopes of Tarnica Mt), Wetlina (Górna Solinka valley, Sołynki Forest), Wetlina (Górna Solinka valley, Chyżyszcze), Wołosate (N slope of Kiczera Mt, Za Potok); VIII-X; beech forest, fir-beech forest; soil. UP: Brzegi Górne 1.5 km E, Lutowiska 2.8 km SW, Sękowiec 1.6 km N, Tarnawa Bog 2.5 km SW, Zatwarnica 2 km S (Hylaty valley), NNW from Zatwarnica (near Hulskie NR), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW, near Bereżki (NE slope of Kiczera Bereźczańska Mt); VII-VIII; beech forest, fir forest, mixed forest, fir-beech forest, deciduous forest; soil.

*♦ *Cantharellus cinereus* Pers. (Fig. S13); LR: [S1,S5,S6,S7,S13]. UP: Wołosate (N slope of Kiczera Mt, Za Potok), Wetlina (Górna Solinka valley), Lutowiska (Filówka spring), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Hulskie NR; VIII-X; beech forest, fir-beech forest; soil.



Fig. S13. Basidiomata of *Cantharellus cinereus* Pers. from the Bieszczady Mts (Aug 16, 2009). Photography by G. Domian.

*♦*Cantharellus friesii* Quél.; RL-E; LR: [S1,S76]. PP: Ustrzyki Górne 3.5 km SW (Czuryłowo), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate 3.5 km E (Horbki), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Wetlina (Górna Solinka valley, Sołynki Forest), Wołosate (SW slope of Semków Wierszek Mt); VIII-X; beech forest, fir-beech forest; soil. UP: Dwerniczek 2 km N, Dwernik 1.5 km NE, Wołosate 2 km NE (N slope of Hudów Wierszek Mt), Bereżki 1.5 km SE (S slope of Kiczera Mt), Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW, Wetlina 2 km NE (W slope of Hnatowe Berdo Mt), NNE from Jaworzec (NE slope of Żołobina Mt); VIII-IX; beech forest, deciduous forest, fir-beech forest; soil.

Cantharellus lutescens* (Pers.) Fr.; NChL; RL-V; LR: [S6] (as *C. tubaeformis* (Bull.) ex Fr. var. *lutescens* (Bull.)). **Notes: In paper by Gierczyk et al. [S1] the name given by Domański et al. [S6] has been incorrectly cited. In Poland mentioned also from the Świętokrzyskie Mts [S77] and Izerskie Foothills [S33].

*♦*Cantharellus tubaeformis* Bull.; LR: [S9,S13], [S1] (as *C. tubiformis* Bull.). **PP:** Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Górna Solinka valley, SW slope of Kiczera Mt), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), S from Bereżki (Zwir valley – Polanki); VIII-X; beech forest, fir-beech forest; soil. **UP:** Wetlina (E slope of Jawornik Mt), Lutowiska 2.7 km SW, Lutowiska (nature trail), Dwerniczek 3 km N, Czarna 5 km S, Ustrzyki Górne 2 km W (slope of Wielka Rawka Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VII-X; beech forest, fir forest, deciduous forest, mixed forest, fir-beech forest; soil. **Notes:** In paper by Gierczyk et al. [S1] wrongly cited as mentioned by Domański et al. [S6].

**Ceraceomyces borealis* (Romell) J. Erikss. & Ryvarden; LR: [S1,S4].

*♦*Ceriporia purpurea* (Fr.) Donk; RL-E, SSI(C); LR: [S6] (as *Poria purpurea* (Fr.) Cooke). **PP:** Dźwiniacz (cemetery); VI; tree clump; deciduous branch.

*♦*Ceriporia reticulata* (Hoffm.) Domanski; RL-R, SSI(C); **PP:** Wetlina (Górna Solinka valley, Buwki); V; beech forest; *Fagus* wood.

*♦*Ceriporiopsis gilvescens* (Bres.) Domanski; RL-E, I++, SSI(B); LR: [S6] (as *Poria gilvescens* Bres.), [S9] (as *Ceriporia gilvescens* (Bres.) Donk s. Bond.), [S5,S78].

*♦*Ceriporiopsis mucida* (Pers.) Gilb. & Ryvarden; RL-R, SSI(B); LR: [S7] (as *Fibuloporia mollusca* (Pers. sensus. Bres.) Bond. & Sing.), [S5] (as *Figuloporia donkii* Domański). **Notes:** See notes at *Trechispora mollusca* (Pers.) Liberta.

**Ceriporiopsis resinascens* (Romell) Domanski; RL-E; LR: [S7] (as *C. resinascens* (Romell.) Domański f. *micantiformis* (Pilát) Parmasto), [S5], [S57] (as *C. resinascens* (Rom.) Dom. var. *polytes* (Parm.) Parm.).

*♦*Cerrena unicolor* (Bull.) Murrill; SSI(B); LR: [S5,S9].

*♦ *Chalciporus piperatus* (Bull.) Bataille; LR: [S9] (as *Suillus piperatus* (Fr.) Kuntze), [S1].
PP: Beniowa (Syhłowaty valley), Beniowa (Bobrowiec valley); VIII; beech forest, fir-beech forest; soil. UP: Lutowska (nature trail), Beniowa 4 km S (Niedźwiedzi valley), between Muczne and Tarnawa (769 m asl pass), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Wetlina 1 km SW (N slope of Jawornik Mt); VIII; spruce forest, mixed forest, fir-beech forest; soil.

#* *Chlorophyllum olivierii* (Barla) Vellinga; NChL; UP: Ustrzyki Górne 2.5 km W (NE slope of Wielka Rawka Mt); VIII; fir-beech forest; soil.

*♦ *Chlorophyllum rachodes* (Vittad.) Vellinga; LR: [S4,S5,S7] (as *Macrolepiota rhacodes* (Vittad.) Singer), [S1] (as *M. rhacodes* (Vittad.) Singer var. *rhacodes*).

*♦ *Chondrostereum purpureum* (Pers.) Pouzar; LR: [S6,S9] (as *Stereum purpureum* Pers. and *S. purpureum* Pers. f. *resupinatum* Bres.), [S7,S12].

* *Chromocyphella muscicola* (Fr.) Donk; LR: [S4]. UP: E slope of Połonina Wetlińska Mt; VII; beech forest; *Plagiomnium cuspidatum* on *Fagus* log. Notes: In Poland known only from some historical localities [S79,S80,S81,S82,S83,S84].

Chroogomphus rutilus (Schaeff.) O.K. Mill.; LR: [S7] (as *Gomphidius rutilus* (Schaeff.) S. Lundell & Nannf.).

#*♦ *Chrysomphalina chrysophyla* (Fr.) Cléménçon; UP: S from Wetlina (Średni Lutowyk valley); VIII; beech forest; *Abies alba* log.

*♦ *Clathrus archeri* (Berk.) Dring; LR: [S47,S85,S86]. Notes: Invasive species of Australian origin [S87].

* *Clavariadelphus pistillaris* (L.) Donk; RL-V, PaP; LR: [S1,S4,S7,S88].

*♦ *Clavulicium macounii* (Burt) J. Erikss.; RL-E; LR: [S89]. Notes: According to Wojewoda [S89] the specimens collected by Domański and published as *Radulomyces confluens* (Fr.) M.P. Christ. (= *Corticium confluens* (Fr.) Fr.) [S5,S7] are incorrectly determined and in fact represent *C. macounii* (Burt) J. Erikss.

*♦ *Clavulina cinerea* (Bull.) J. Schröt.; LR: [S1]. PP: Wetlina (Górna Solinka valley, Chyżyszcze); X; fir-beech forest; soil. UP: Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦ *Clavulina coralloides* (L.) J. Schröt.; LR: [S6,S9,S13] (as *C. cristata* (Fr.) J. Schröt.), [S1,S12]. PP: W from Zatwarnica (Tworylczyk valley), Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), S from Bereżki (Zwir valley – Polanki), SE slope of Połonina Caryńska Mt, Beniowa (Szczob); VI-X; beech forest, fir-beech forest, mixed forest; soil. UP: Wola Michowa, Lutowiska (nature trail), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Widelki 1 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII-X; fir-beech forest, mixed forest, tree clump; soil.

*♦ *Clavulina rugosa* (Bull.) J. Schröt.; LR: [S1,S5,S7] PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; shrubs by the stream; soil. UP: Smerek 3 km S, Wola Michowa, Lutowiska (nature trail), Dwerniczek 2 km N, Zatwarnica 2 km S (Hylaty valley), SW from Zatwarnica (Hulski valley), Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 1 km W; VIII-X; roadside, tree clump, mixed forest, beech forest, fir-beech forest; soil.

#*Clavulinopsis corniculata* (Schaeff.) Corner; RL-R; UP: Wola Michowa; X; meadow; soil.

#**Clavulinopsis helvola* (Pers.) Corner; UP: between Smerek and Kalnica, Wetlina (Górna Solinka valley); X; meadow; soil.

Clavulinopsis laeticolor (Berk. & M.A. Curtis) R.H. Peterson; RL-I; LR: [S7] (as *C. pulchra* (Peck) Corner).

#**Climacocystis borealis* (Fr.) Kotl. & Pouzar; RL-R; PP: Beniowa (Kiczera Beniowska), near Beniowa (Górny San valley nature trail); VIII; spruce forest, fir-beech forest; *Picea* trunk, *Abies* log.

*♦ *Climacodon septentrionalis* (Fr.) P. Karst. (Fig. S14); RL-R, I++; LR: [S1,S4,S5,S14,S90]. UP: Wetlina (Sękowa, Jawornik range), Wetlina (Górna Solinka valley); IX-X; beech forest; hollow in the *Fagus* trunk, trunk of deciduous tree.



Fig. S14. Basidiomata of *Climacodon septentrionalis* (Fr.) P. Karst. from the Bieszczady Mts (Oct 07, 2010). Photography by G. Domian.

Clitocybe agrestis* Harmaja; **RL-R; **LR**: [S9] (as *C. angustissima* Lasch).

?*Clitocybe applanata* Secr.; **LR**: [S9]. **Notes**: Species miscellaneously interpreted by different authors. According to Wojewoda [S51] it is *nomen nudum* and the identity of the specimens from the Bieszczady Mts is unclear.

◆*Clitocybe brumalis* (Fr.) Quél.; **LR**: [S7].

Clitocybe candicans* (Pers.) P. Kumm. var. *candicans*; **LR: [S5,S7].

*◆*Clitocybe connata* (Schumach.) Gillet; **LR**: [S1,S7] (as *Lyophyllum connatum* (Schumach.) Singer). **PP**: Beniowa, Wetlina (Górna Solinka valley, SW slope of Dział Mt); VIII, X; roadside, spruce-beech forest; soil.

#*♦ *Clitocybe ditopus* (Fr.) Gillet; UP: Ustrzyki Górne 2.5 km W (NE slope of Wielka Rawka Mt); VIII; fir-beech forest; soil.

*♦ *Clitocybe fragrans* (With.) P. Kumm.; LR: [S9] (as *C. fragrans* (Sowerby) Quél. and *C. suaveolens* (Schumach.) Quél.).

**Clitocybe metachroa* (Fr.) P. Kumm. var. *metachroa*; LR: [S5] (as *C. bicolor* (Pers.) Lange), [S1].

#*♦ *Clitocybe nebularis* (Batsch) P. Kumm. var. *nebularis*; PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; roadside; soil.

*♦ *Clitocybe odora* (Bull.) P. Kumm. var. *odora*; LR: [S5,S6,S7,S9,S13,S68]. UP: Ustrzyki Górne 2 km W (slope of Wielka Rawka Mt), Wołosate (near water intake), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII-X; thickets, deciduous forest, fir-beech forest; soil.

*♦ *Clitocybe phaeophthalma* (Pers.) Kuyper; RL-R; LR: [S5,S7,S9] (as *Clitocybe hydrogramma* (Bull.) P. Kumm.).

!#*Clitocybe subspadicea* (J.E. Lange) Bon & Chevassunt; NChL; UP: Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; litter. Notes: Basidiocarps clitocyboid. Caps 4–6 cm in diameter, hygrophanous, without pruina, convex and umbiliculate, smooth, grayish, gray brown, ocher brown or pale brownish, non-striate. Stem cylindrical, 4–5 cm high, pale brown, with whitish zone at apex, without mycelial hairs at the base. Gills crowded, buff. Smell nitrous. Basidia 4-spored. Spores ellipsoid, hyaline, smooth, inamyloid, 7–8.5 × 4–4.5 μm, not agglutinating in dry material. Cystidia absent. Pilei- and stipitipellis a cutis, pigment intracellular. Clamps present. Specimens seen: 15.08.2011, leg. & det. T. Ślusarczyk, fungarium no. 17/BZ/TS/15082011; 19.08.2011, leg. & det. T. Ślusarczyk, fungarium no. 2/BZ/TS/19082011.

**Clitocybe vernicosa* (Fr.) Gillet; LR: [S4,S9].

♦ *Clitocybe vibecina* (Fr.) Quél.; LR: [S7] (as *C. langei* Singer).

*♦ *Clitocybula lacerata* (Scop.) Métrod; RL-V; LR: [S1,S4]. PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt),

Beniowa (Szczob); VIII-X; beech forest, fir-beech forest; wood, *Abies* log. **UP:** Stuposiany 2 km SW (S slope of Prypiczek Mt), NE slope of Wielka Rawka Mt, Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Abies* trunk.

*♦ *Clitocybula platyphylla* (Pers.) Malençon & Bertault; **LR:** [S5,S7,S9] (as *Oudemansiella platyphylla* (Pers.) M.M. Moser), [S1,S11] (as *Megacollybia platyphylla* (Pers.) Kotl. & Pouzar). **PP:** W from Zatwarnica (Tworylczyk valley), Suche Rzeki (W slope of Jawornik Mt), Ustrzyki Górne (by the bridge over Wołosaty stream), Beniowa (Szczob); VI, VIII; beech forest, mixed forest, fir-beech forest; soil, wood, *Fagus* trunk and logs. **UP:** between Muczne and Tarnawa (769 m asl pass), Pszczeliny-Widełki (3 km SE from forester's lodge), Zatwarnica 3 km S (Hriadnik), near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII-IX; beech forest, mixed forest, fir-beech forest; wood, soil, *Fagus* log, *Abies* log.

!#* *Clitopilus passeckerianus* (Pilát) Singer (Fig. S15); **NChL; UP:** Wołosate (horse stud); VII; horse stud site; manure. **Notes:** Basidiocarps crepidotoid, gregarious, 1–5 cm in diameter, white to dirty white, with silky surface. Stipe absent or reduced, lateral, up to 0.3 cm, white. Lamellae crowded, dirty pink. Smell farinaceous. Basidia 4-spored. Spores subfusiform, thick walled, with 5–9 distinct, longitudinal ribs, 7–9 × 4–5.5 µm. Cystidia absent. Clamps present. Pileipellis a cutis. Specimens seen: 31.07.2011, leg. A. Kujawa, B. Gierczyk, det. A. Kujawa, fungarium no. 33/BdPN/31.07.11.

*♦ *Clitopilus prunulus* (Scop.) P. Kumm.; **LR:** [S5,S6,S45]. **PP:** Wetlina (Górna Solinka valley, SW slope of Dział Mt); X; spruce-beech forest; soil. **UP:** Zatwarnica 2 km S (Hylaty valley), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII; beech forest, fir-beech forest; soil.

Collybia cirrhata (Schumach.) Quél.; **LR:** [S7].

*♦ *Collybia cookei* (Bres.) J.D. Arnold; **LR:** [S1,S9]. **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; spruce brushwood; litter. **UP:** Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; decaying basidiomata of agaricoid fungi.

?*Collybia ocellata* (Fr.) Gillet; LR: [S7]. Notes: According to Antonín and Noordeloos [S89,S90] it is *nomen dubium*.

*♦*Collybia tuberosa* (Bull.) P. Kumm.; LR: [S1,S6,S13]. UP: Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; decaying basidiomata of agaricoid fungi.



Fig. S15. Basidiomata of *Clitopilus passeckerianus* (Pilát) Singer from the Bieszczady Mts (Aug 01, 2011). Photography by K. Kujawa.

#**Coltricia cinnamomea* (Jacq.) Murrill; RL-I; UP: Bereżki 2 km NW; VIII; fir-beech forest; soil.

*♦*Coltricia perennis* (L.) Murrill; LR: [S6] (as *Polystictus perennis* (L.) Fr.), [S1].

**Conferticium ochraceum* (Fr.) Hallenb.; RL-R; LR: [S1,S5,S7] (as *Gloeocystidiellum ochraceum* (Fr.) Donk). PP: Tworylczyk valley; VI; fir-beech forest; ?*Abies* log.

?*Conferticium ravum* (Burt) Ginns & G.W. Freeman; RL-E; LR: [S7] (as *Gloeocystidiellum karstenii* (Bourdot & Galzin) Donk). **Notes:** The authors were not sure of the proper identification and mentioned it with a “?”. The revision of the material is needed.

**Coniophora arida* (Fr.) P. Karst.; LR: [S6] (as *C. arida* Fr. var. *flavobrunnea* Bres.).

**Coniophora olivacea* (Fr.) P. Karst.; RL-R; LR: [S6] (as *Coniophorella olivacea* (Fr.) P. Karst.), [S93].

*♦*Coniophora puteana* (Schum.) P. Karst.; LR: [S9] (as *C. puteana* (Schumach.) P. Karst. ssp. *C. laxa* (Fr.) Bres.), [S5].

#*Conocybe albipes* (G.H. Otth) Hauskn. var. *albipes*; UP: Lutowiska 2 km W, Lutowiska (near Jewish cemetery); VIII; pasture; soil.

Conocybe aurea* (Jul. Schäff.) Hongo; NChL; LR: [S9] (as *C. tenera* (Schaeff.) Kühner f. *aurea* Schäff.). **Notes: Species not mentioned on checklist of Polish Basidiomycetes [S51], in Poland also known from Kampinos NP [S35].

?*Conocybe conocephala* (Bull.) Bon; LR: [S9] (as *Galerella conocephala* (Bull.) Sing.). **Notes:** According to Hausknecht and Contu [S94] and Wojewoda [S51] it is doubtful species.

*♦*Conocybe dumetorum* (Velen) Svrček var. *dumetorum*; NChL; LR: [S95]. UP: Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil. **Notes:** In Poland known only from the Bieszczady Mts.

Conocybe farinacea* Watling; NChL; LR: [S1,S4]. PP: Wołosate (horse stud), Tarnawa Niżna (horse stud); VI, VIII; horse stud site; soil mixed with manure. **Notes: In Poland also known from Białowieża Primeval Forest [S96].

#**Conocybe hexagonospora* Hauskn. & Enderle; NChL; UP: Zatwarnica 2 km S (Hylaty valley); VIII; beech forest; soil. **Notes:** In Poland also known from Świętokrzyskie Mts [S77,S97,S98] and Przemyśl Foothills [S29].

**Conocybe mesospora* Kühner & Watling; LR: [S7]. PP: Tarnawa Niżna (horse stud); VI; horse stud site; soil.

*♦*Conocybe pulchella* (Velen.) Hauskn. & Svrček; LR: [S1]. UP: Wołosate 2 km SEE (Doszczanki); VII; mid-forest clearing; soil.

- **Conocybe pubescens* (Gillet) Kühner; LR: [S1]. UP: Wołosate; VII; stud; manure.
- *♦*Conocybe rickeniana* P.D. Orton; LR: [S9].
- **Conocybe rickenii* (Jul. Schäff.) Kühner; LR: [S6,S7].
- *♦*Conocybe semiglobata* Kühner & Watling; LR: [S9] (as *C. tenera* (Schff. ex Fr.) Kühner var. *semiglobata* Kühner).
- #**Conocybe siennophylla* (Berk. & Broome) Singer; NChL; UP: Wołosate (horse stud); VII; horse stud site; manure. Notes: According to Hausknecht and Vesterholt [S99] it is a synonym of *C. ochrostriata* Hauskn. var. *ochrostriata*, while Hausknecht [S95] has considered them as separated species.
- *♦*Conocybe siliginea* (Fr.) Kühner; LR: [S1,S7]. PP: Ustrzyki Górne (parking place by the road to Wołosate), Dźwiniacz (cemetery); VI; lawn, tree clump; soil. UP: Lutowiska, Wołosate (horse stud); VII; roadside, stud site; soil, manure.
- ♦*Conocybe subpubescens* P.D. Orton; LR: [S7] (as *C. megalospora* Schaeff.).
- *♦*Conocybe tenera* (Schaeff.) Fayod; LR: [S9] (as *C. tenera* (Schaeff.) Kühner var. *tenera*). PP: Dźwiniacz (near cemetery); VI; roadside; soil.
- **Coprinellus bisporus* (J.E. Lange) Vilgalys, Hopple & Jacq. Johnson; RL-E; LR: [S100].
- *♦*Coprinellus congregatus* (Bull.) P. Karst.; RL-E; LR: [S1] (as *Coprinus congregatus* (Bull.) Fr.), [S100]. UP: Wołosate (horse stud); X; horse stud site; manure.
- **Coprinellus curtus* (Kalchbr.) Vilgalys, Hopple & Jacq. Johnson; LR: [S100]. UP: Wołosate (horse stud); VII; horse stud site; manure. Notes: In Poland also known from Białowieża NP [S101] and Wielki Las NR [S102].
- **Coprinellus dilectus* (Fr.) Redhead, Vilgalys & Moncalvo; NChL; LR: [S103]. Notes: In Poland also known from Białowieża NP [S34].
- *♦*Coprinellus disseminatus* (Pers.) J.E. Lange; LR: [S1,S5,S9] (as *Coprinus disseminatus* (Pers.) Quél. PP: Dźwiniacz (cemetery), Berehy Górne; VI; tree clump, shrubs by the stream; wood, *Fraxinus* trunk base. UP: Wetlina, between Muczne and Tarnawa (769 m asl pass), Lutowiska; VIII, X; garden, roadside; *Fraxinus* trunk, wood debris.

*♦ *Coprinellus domesticus* (Bolton) Vilgalys, Hopple & Jacq. Johnson; LR: [S1] (as *Coprinus domesticus* (Bolton) Gray). PP: Suche Rzeki (Czerteżyk Łocentyków); VI; beech forest; *Fagus* branch.

**Coprinellus ellisii* (P.D. Orton) Redhead, Vilgalys & Moncalvo; NChL; LR: [S100].

**Coprinellus ephemerus* (Bull.) Redhead, Vilgalys & Moncalvo; LR: [S5,S7] (as *Coprinus ephemerus* (Bull.) Fr.). UP: Lutowiska (by nature trail); VIII; pasture; *Bos taurus* dung.

**Coprinellus flocculosus* (DC.) Vilgalys, Hopple & Jacq. Johnson; RL-R; LR: [S100]. UP: Lutowiska 2 km W (by the tourist trail to Chata Socjologa shelter); VII; pasture; hay.

**Coprinellus heptemerus* (M. Lange & A.H. Sm.) Vilgalys, Hopple & Jacq. Johnson; NChL; LR: [S1] (as *Coprinus heptemerus* M. Lange et A.H. Sm.).

**Coprinellus heterosetulosus* (Watling) Vilgalys, Hopple & Jacq. Johnson; NChL; LR: [S100]. UP: Wołosate (horse stud); VII; horse stud site; manure.

**Coprinellus heterothrix* (Kühner) Redhead, Vilgalys & Moncalvo; NChL; LR: [S103].

##**Coprinellus impatiens* (Fr.) J.E. Lange; PP: Wołosate (horse stud); VIII; horse stud site; manure.

**Coprinellus marculentus* (Britzelm.) Redhead, Vilgalys & Moncalvo; NChL; LR: [S100]. UP: Lutowiska 2 km W (by the tourist trail to Chata Socjologa shelter), Wołosate (horse stud); VII, X; pasture, horse stud site; hay, manure. Notes: In Poland reported also from the Przemyśl Foothills [S29] and Kaczawskie Foothills [S33].

*♦ *Coprinellus micaceus* (Bull.) Vilgalys, Hopple & Jacq. Johnson; LR: [S1,S5,S7,S9] (as *Coprinus micaceus* (Bull.) Fr.). PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Czerteżyk Łocentyków), Suche Rzeki (Żytyszcze), Bereżki (Kiczera), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Ustrzyki Górne 1 km W, Ustrzyki Górne 2 km SW (Wierch Mt), Ustrzyki Górne 3.5 km SW (Czuryłowo), W from Wołosate Bog (Wielkie Pole), Beniowa (Szczob); VI-VIII; beech forest, fir-beech forest, forest margin, *Alnetum incanae*, mixed forest; *Fagus* trunk, *Acer pseudoplatanus* log, soil, wood. UP: Wetlina (Moczarne), Nasiczne, Hylaty valley, Wetlina (by the tourist trail to Mała Rawka Mt), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), SE from

Bereżki (NW slope of Widełki Mt), W from Ustrzyki Górne (Zwir valley), near Tarnawa Górna (3.5 km SW from Tarnawa bog), Ustrzyki Górne, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), N from Dołżyca (N slope of Łopiennik Mt); VI-IX; beech forest, fir-beech forest, mixed forest; wood, deciduous trunk and logs, *Fagus* trunk.

*♦ *Coprinellus pellucidus* (P. Karst.) Redhead, Vilgalys & Moncalvo; NChL; LR: [S100].

Notes: In Poland also known from Puszcza Notecka [S100] forest and Kampinos NP [S35].

* *Coprinellus plagioporus* (Romagn.) Redhead, Vilgalys & Moncalvo; NChL; LR: [S100].

Notes: In Poland also known from the vicinity of Czerniejewo [S100] and Łęg [S104].

##* *Coprinellus pusillulus* (Svrček) Hází, L. Nagy, Papp & Vágvölgyi; NChL; UP:

Wołosate (horse stud); VII; horse stud site; manure.

* *Coprinellus silvaticus* (Peck) Gminder; SSI(B); LR: [S7] (as *Coprinus silvaticus* Peck).

PP: Ustrzyki Górne 2 km NE (N slope of Kiczera Mt); VIII; beech forest; soil.

* *Coprinellus xanthotrix* (Romagn.) Vilgalys, Hopple & Jacq. Johnson; LR: [S9] (as

Coprinus xanthotrix Romagn.). PP: Nasiczne (E slope of Magura Nasiczańska Mt); VI; beech forest; wood. UP: Lutowiska 1 km E, Dwernik 1 km N, Polańczyk; VII-VIII; beech forest, meadow; litter.

* *Coprinopsis acuminata* (Romagn.) Redhead, Vilgalys & Moncalvo; NChL; LR: [S1] (as

Coprinus acuminatus (Romagn.) P.D. Orton), [S100]. UP: N from Dwernik (by the road to Trohaniec Mt); VII; beech forest; soil.

* *Coprinopsis aff. argentea* (P.D. Orton) Redhead, Vilgalys & Moncalvo; NChL; LR:

[S1,S4] (as *Coprinus argenteus* P.D. Orton), [S100]. Notes: In Poland known only from the Bieszczady Mts.

*♦ *Coprinopsis atramentaria* (Bull.) Redhead, Vilgalys & Moncalvo; LR: [S1,S5,S7]. PP:

Bereżki (Kiczera), Beniowa (Szczob); VIII; beech forest, forest road; soil. UP: SE from Bereżki (NW slope of Widełki Mt); VIII; beech forest; wood. UP: Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII; roadside; soil.

##* *Coprinopsis candidolanata* (Doveri & Uljé) Keirle, Hemmes & Desjardin; NChL; PP:

Bereżki; VI; meadow; *Equus caballus* dung. Notes: In Poland hitherto also known from laboratory culture, on dung collected in Biebrzański NP [S103].

****Coprinopsis cinerea* (Schaeff.) Redhead, Vilgalys & Moncalvo; LR:** [S6] (as *Coprinus fimetarius* L.), [S1] (as *C. cinereus* (Schaeff.) Gray). **PP:** Wołosate (horse stud); VI, VIII; horse stud site; *Equus caballus* dung, manure, straw. **UP:** Wetlina Górna (BdNP camping place), Lutowiska 2 km W (by the tourist trail to Chata Socjologa shelter); VI-VII; spruce forest, pasture; *Equus caballus* dung, hay.

****Coprinopsis cordispora* (T. Gibbs) Noordel.; LR:** [S7] (as *Coprinus patouillardii* Qué.), [S1,S4] (as *Coprinus cordisporus* T. Gibbs), [S100]. **UP:** Wołosate (by the road to Beskid Pass), Wołosate (horse stud), Lipie near Czarna; VII-VIII, X; roadside, horse stud site; *Equus caballus* dung, manure. **Notes:** Domański et al. [S7] reported *Coprinus patouillardii* Qué. from horse dung and have gave the name *C. cordisporus* Gibb. as a synonym. In present monographs these two taxa are not synonymized [S105]. The first one grows on litter, while the second – on dung.

#*Coprinopsis cortinata* (J.E. Lange) Gminder; UP: Lutowiska (near BdNP buildings); VIII; under spruces; soil.

****Coprinopsis cothurnata* (Godey) Redhead, Vilgalys & Moncalvo; NChL; LR:** [S100]. **Notes:** In Poland reported only from the Bieszczady Mts.

*****Coprinopsis ephemeroides* (DC.) G. Moreno; UP:** Wołosate (horse stud); VII; stable; manure. **Notes:** In Poland also known from historical localities [S79,S81,S82,S106] and from Białowieża NP [S101,S107].

****Coprinopsis foetidella* (P.D. Orton) Noordel.; NChL; LR:** [S4] (as *Coprinus foetidellus*), [S100]. **Notes:** In Poland also known from Białowieża Primeval Forest [S24].

#*Coprinopsis friesii* (Qué.) P. Karst.; UP: Lutowiska 2 km W (by the tourist trail to Chata Socjologa shelter); VII; pasture; hay.

****Coprinopsis jonesii* (Peck) Redhead, Vilgalys & Moncalvo; NChL; LR:** [S100].

****♦*Coprinopsis lagopus* (Fr.) Redhead, Vilgalys & Moncalvo var. *lagopus*; PP:** Wetlina Górna (BdNP camping place); VI; meadow; hay. **UP:** Smerek 3 km S, Lutowiska 2 km W (by the tourist trail to Chata Socjologa shelter); VI-X; mixed forest, pasture; hay, litter.

#Coprinopsis laanii* (Kits van Wav.) Redhead, Vilgalys & Moncalvo; NChL; UP:** W slope of Tarnica Mt; IX; beech forest; *Abies* log. **Notes:** In Poland also known from Jasienica [S76], Kampinos NP [S108] and Izerskie Foothills [S33].

****Coprinopsis macrocephala* (Berk.) Redhead, Vilgalys & Moncalvo; LR:** [S9] (as *Coprinus macrocephalus* (Berk.) Berk.).

◆*Coprinopsis marcescibilis* (Britzelm.) Östradius & E. Larss.; LR: [S7] (as *Psathyrella marcescibilis* (Britzelm.) Singer).

***◆*Coprinopsis nivea* (Pers.) Redhead, Vilgalys & Moncalvo; RL-R; LR:** [S100].

#*Coprinopsis phaeospora* (P. Karst.) P. Karst.; NChL; UP: Lutowska 2 km W (by the tourist trail to Chata Socjologa shelter); VII-VIII; pasture; hay. **Notes:** In Poland also known from Poznań [S100] and Kampinos NP [S35].

****Coprinopsis poliomalla* (Romagn.) Doveri, Granito & Lunghini; LR:** [S1] (as *Coprinus poliomallus* Romagn.). **Notes:** In Poland also known from Pieniny NP [S109] and Owczary protected area [S110].

****Coprinopsis pseudonivea* (Bender & Uljé) Redhead, Vilgalys & Moncalvo; NChL; LR:** [S4] (as *Coprinus pseudoniveus*), [S100]. **Notes:** In Poland also known from Biebrza NP [S111].

****Coprinopsis pseudoradiata* (Watling) Redhead, Vilgalys & Moncalvo; NChL; LR:** [S100]. **UP:** N slope of Wielka Rawka Mt; IX; *Sorbo aucupariae-Aceretum pseudoplatani*; *Sus* dung.

****Coprinopsis radiata* (Bolton) Redhead, Vilgalys & Moncalvo; LR:** [S100].

#*◆*Coprinopsis romagnesiana* (Singer) Redhead, Vilgalys & Moncalvo; NChL; UP: N slope of Wielka Rawka Mt; IX; beech forest; deciduous trunk base.

****Coprinopsis spelaiophila* (Bas & Uljé) Redhead, Vilgalys & Moncalvo (Fig. S16); LR:** [S100]. **UP:** S from Zatwarnica (Hylaty valley); IX; beech forest; *Fagus* trunk.

****Coprinopsis stercorea* (Fr.) Redhead, Vilgalys & Moncalvo; LR:** [S7] (as *Coprinus velox* Godey), [S1] (as *Coprinus stercoreus* (Scop.) Fr.). **UP:** Wetlina (Górna Solinka valley), N slope of Opołonek Mt; VI, VIII; roadside, beech forest; ?*Capreolus* dung, *Ursus* dung.



Fig. S16. Basidiomata of *Coprinopsis spelaiophila* (Bas & Uljé) Redhead, Vilgalys & Moncalvo from the Bieszczady Mts (Jul 02, 2010). Photography by T. Pachlewski.

****Coprinopsis tigrinella* (Boud.) Redhead, Vilgalys & Moncalvo; NChL; LR: [S1] (as *Coprinus tigrinellus* Boud.), [S100]. UP: Lutowiska 2 km W (by the tourist trail to Chata**

Socjologa shelter); VIII; pasture; hay. **Notes:** In Poland reported only from the Bieszczady Mts.

Coprinopsis trispora* (Kemp & Watling) Redhead, Vilgalys & Moncalvo; NChL; LR: [S100]. **UP: Wołosate (horse stud); IX; horse stud site; manure. **Notes:** In Poland reported only from the Bieszczady Mts.

Coprinopsis tuberosa* (Quél.) Doveri, Granito & Lunghini; LR: [S100]. **Notes: In Poland reported also from Kuźnica Białostocka [S112] and Białowieża NP [S101].

Coprinopsis urticicola* (Berk. & Broome) Redhead, Vilgalys & Moncalvo var. *urticicola*; LR: [S1,S4] (as *Coprinus urticicola* (Berk. & Broome) Buller), [S100]. **UP: S from Zatwarnica (Hylaty valley); VIII; roadside; *Arctium* dead stems. **Notes:** In Poland also known from Kampinos NP [S35].

Coprinopsis xenobia* (P.D. Orton) Redhead, Vilgalys & Moncalvo; NChL; LR: [S100]. **Notes: In Poland reported only from the Bieszczady Mts.

?*Coprinus aphthosus* Fr.; LR: [S7]. **Notes:** Species not mentioned in current monographs, *nomen dubium* [S105,S113,S114].

*♦*Coprinus comatus* (O.F. Müll.) Pers.; LR: [S4]. **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; meadow; soil. **UP:** Smerek 3 km S; VIII; mixed forest; soil.

?*Coprinus hemerobius* Fr. ss. J.E. Lange; LR: [S6,S9,S13]. **Notes:** Species not mentioned in current monographs [S105,S113,S115], probably a synonym of *Parasola plicatilis* or *P. auricoma*.

Coprinus sterquilinus* (Fr.) Fr.; RL-E; LR: [S100]. **Notes: From Poland reported also from Kraków [S116].

*♦*Coriolopsis trogii* (Berk.) Domanski; LR: [S5,S117] (as *Trametella trogii* (Berk.) Domań. and *T. trogii* (Berk.) Domań. f. *resupinata* B. & G.). **PP:** Tarnawa Niżna (Szyryń); VIII; by the stream; *Populus tremula* and *Salix fragilis* logs.

Corticium polygonioides P. Karst.; RL-E, SP; LR: [S7] (as *Laeticorticium polygonioides* (P. Karst.) Donk). **Notes:** In Poland also known from Sudety Mts [S118].

*♦ *Corticium roseum* Pers.; LR: [S5,S9] (as *Laeticorticium roseum* (Pers.) Donk). UP: Wołosate; IX; *Alnetum incanae*; *Salix* log.

?*Cortinarius agathosmus* Brandrud, H. Lindstr. & Melot.; LR: [S1,S51]. Notes: See remarks under *C. subviolascens* Rob. Henry.

**Cortinarius alboviolaceus* (Pers.) Fr.; LR: [S1].

**Cortinarius alneus* M.M. Moser; LR: [S119].

*♦ *Cortinarius anomalus* (Fr.) Fr. var. *anomalus*; LR: [S1,S6,S9] (as *C. anomalus* Fr. and *C. azureus* Fr.), [S1]. UP: Muczne 0.5 km S (Jamniczna); VIII; birch thicket on a forest margin; soil.

!#**Cortinarius anomalus* (Fr.) Fr. var. *subcaligatus* (Bidaud, Moëgne-Loec. & Reumaux) Mahiques; NChL; UP: vicinity of Muczne (Jamniczna), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VIII; beech forest, fir-beech forest; soil. Notes: Variety differing from the typical one by darker, gray-brown cap, abundant ocher cortina remains on stipe and smaller spores, $7.5\text{--}8.5 \times 5.5\text{--}6.5 \mu\text{m}$, with less prominent ornamentation. Specimens seen: (i) 20.08.2010, leg., det. T. Ślusarczyk, fungarium no. 17/TŚ/BdPN/20082010; (ii) 15.08.2011, leg., det. T. Ślusarczyk, fungarium no. 7/TŚ/BdPN/21082010.

♦ *Cortinarius anthracinus* (Fr.) Fr.; RL-V; LR: [S120].

**Cortinarius armillatus* (Fr.) Fr.; LR: [S9].

*♦ *Cortinarius bolaris* (Pers.) Fr.; LR: [S1,S6]. PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest; soil. UP: NE slope of Wielka Rawka Mt, Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII; fir-beech forest; soil.

#**Cortinarius caerulescens* (Schaeff.) Fr.; UP: Wołosate (N slope of Kiczera Manzowa Mt); VIII; beech forest; soil.

Cortinarius cagei Melot; RL-V; LR: [S6] (as *C. bicolor* Cooke). UP: Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

♦ *Cortinarius caninus* (Fr.) Fr.; LR: [S4]. UP: Muczne; VIII; open place (under spruce); soil.

*♦ *Cortinarius caperatus* (Pers.) Fr.; LR: [S1,S54] (as *Rozites caperata* (Pers.) Karst.); UP: Sine Wiry NR (S slope of Połoma Mt); VIII; beech forest; soil.

*♦ *Cortinarius cinnabarinus* Fr.; LR: [S13] (as *Dermocybe cinnabarina* Fr.), [S6,S7].

**Cortinarius cinnamomeoluteus* P.D. Orton; LR: [S6].

*♦ *Cortinarius cinnamomeus* (L.) Gray; LR: [S1]. UP: Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil.

*♦ *Cortinarius collinitus* (Sowerby) Gray; LR: [S1,S4] (as *C. muscigenus* Peck).

**Cortinarius cotoneus* Fr.; LR: [S6] (as *C. cotonexus* Fr.). Notes: In Poland also known from locality near Elbląg [S121].

Cortinarius crassus Fr.; LR: [S122].

*♦ *Cortinarius croceus* (Schaeff.) Gray subsp. *croceus*; RL-R; LR: [S1,S4]. PP: Wetlina Górna (BdNP camping place); X; meadow; soil.

**Cortinarius cyanites* Fr.; RL-V; LR: [S119]. Notes: In Poland known only from the Bieszczady Mts.

#*♦ *Cortinarius delibutus* Fr.; PP: vicinity of Muczne (Jamniczna); VIII; fir-beech forest; soil.

#*Cortinarius diasemospermus* Lamoure var. *diasemospermus*; NChL; UP: Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

Cortinarius dionysae Rob. Henry; NChL; LR: [S122]. Notes: In Poland also known from the Tatry Mts [S123,S124].

Cortinarius eburneus (Velen.) Rob. Henry; RL-R; LR: [S1].

*♦ *Cortinarius elatior* Fr.; LR: [S6] (as *C. lividoochraceus* Fr.), [S5,S9] (as *C. pumilus* (Fr.) J.E. Lange), [S1] (as *C. lividoochraceus* (Berk.) Berk.).

!#**Cortinarius fervidus* P.D. Orton; NChL; PP: Beniowa; VIII; fir-beech forest; soil. Notes: Representative of section *Dermocybe* Pres. Basidiomata medium size, caps up to 7.5 cm in diameter, broadly conical to plane or concave with broad umbo, red brown to reddish

chestnut. Stem up to 9 cm high, concolour or paler than cap, covered by reddish veil remains and with orange mycelium at base. Gills brownish red to brownish orange. Spores 7.0–9.0 × 4.5–6 µm, amygdaloid or ovoid-amygdaloid, rusty brown. Specimens seen: 22.08.2009, *leg.* K. Kędra, *det.* B. Gierczyk, fungarium no. 65/KaK/22.08.09.

#*Cortinarius flexipes* (Pers.) Fr. var. *flabellus* (Fr.) H. Lindstr. & Melot; NChL; UP: Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil. **Notes:** In Poland also known from Kampinos NP [S35], Białowieża Primeval Forest [S125] and Izerskie Foothills [S33].

****Cortinarius flexipes* (Pers.) Fr. var. *flexipes*; LR:** [S1] (as *C. flexipes* (Pers.) Fr. var. *flexipes* and *C. paleaceus* Fr.). **UP:** Wetlina (Górna Solinka valley); X; beech forest; soil.

!#*Cortinarius flexipes* (Pers.) Fr. var. *inolens* H. Lindstr.; NChL; UP: Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil. **Notes:** Variety characterized by yellow-brown colors of the basidiomata, lacking of the violet tints, presence of abundant cortina remains on stipe and lacking of the *Pelargonum* leaves smell. Specimens seen: 16.08.2011, *leg.*, *det.* T. Ślusarczyk, fungarium no. 17/BZ/TS/16082011 & 23/BZ/TS/16082011.

◆*Cortinarius glaucopus* (Schaeff.) Fr.; LR: [S1].

***◆*Cortinarius hinnuleus* Fr. s.l.; LR:** [S1]. **UP:** Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest, mixed forest; soil.

****Cortinarius hoefitii* (Weinm.) Fr.; LR:** [S6]. **Notes:** In Poland known only from the Bieszczady Mts.

?*Cortinarius incisus* (Pers.) Fr.; RL-V; LR: [S6,S119]. **Notes:** Species not mentioned in current monographs, probably *nomen ambiguum* [S105].

***◆*Cortinarius largus* Fr. s.l.; LR:** [S13] (as *Phlegmacium largus* Fr. and *P. nemorensis* Fr.), [S1,S6] (as *C. nemorensis* (Fr.) J.E. Lange), [S126] (as *P. largum* (Fr.) Wünsche and *P. nemorense* (Fr.) n.c.). **UP:** Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW; VIII; fir-beech forest; soil.

◆*Cortinarius lilacinopusillus* P.D. Orton; LR: [S119] (as *C. pulchellus* J.E. Lange.).

**Cortinarius malachus* (Fr.) Fr.; RL-R; LR: [S6].

**Cortinarius malicorius* Fr.; LR: [S1]. PP: Beniowa (Szczob); VIII; fir-beech forest; soil. UP: Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

**Cortinarius mucifluoides* Rob. Henry; LR: [S6] (as *C. pseudo-salor* J.E. Lange.), [S9] (as *C. mucifluoides* Hry.). Notes: Wojewoda [S51] and Gierczyk et al. [S1] have incorrectly synonymized these records with *C. stillatitius* Fr.; however, these names are synonyms of *C. stillatitius* ss. Qué. & Ricken non Fries.

?*Cortinarius mucifluus* Fr.; LR: [S51]. Notes: In checklist of Polish Basidiomycetes [S51] this species is cited after Domański et al. [S9]. In this paper *C. mucifluus* has not been mentioned; however, *C. mucifluoides* Henry has been listed.

**Cortinarius olidus* J.E. Lange; LR: [S6] (as *C. cephalixus* Secr.). UP: Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil. Notes: In Poland known only from the Bieszczady Mts.

**Cortinarius orellanus* Fr.; RL-R; LR: [S1].

*♦*Cortinarius phoeniceus* (Vent.) Maire; LR: [S6] (as *Cortinarius phoenicus* (Bull.) Maire).

#*Cortinarius pluvius* ss Brandrud et al. 1998; UP: Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

**Cortinarius porphyropus* (Alb. & Schwein.) Fr.; RL-E; LR: [S6].

**Cortinarius pseudoduracinus* Rob. Henry; LR: [S9]. Notes: In Poland known only from the Bieszczady Mts.

*♦*Cortinarius purpurascens* (Fr.) Fr.; LR: [S1]. UP: Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt), Widelki 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII; fir-beech forest; soil.

**Cortinarius renidens* Fr.; LR: [S4,S122].

#Cortinarius rubicundulus* (Rea) A. Pearson; UP:** vicinity of Muczne (Jamniczna), NE slope of Wielka Rawka Mt; VIII; fir-beech forest; soil. **Notes:** Species also known from Zakopane [S127].

****Cortinarius sanguineus* (Wulfen) Fr. var. *sanguineus*; LR:** [S6]. **UP:** Lutowiska (Filówka spring), Czarna 5 km S, Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; deciduous forest, beech forest, fir-beech forest; soil.

****Cortinarius semisanguineus* (Fr.) Fr.; LR:** [S1,S6].

?*Cortinarius stillatitus* Fr.; LR: [S1,S51]. **Notes:** See remarks under *C. mucifluoides* Rob. Henry.

#*Cortinarius subporphyropus* Pilát; UP: Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VIII; beech forest; soil.

?*Cortinarius subviolascens* Rob. Henry; LR: [S9]. **Notes:** By Wojewoda [S51] and Gierczyk et al. [S1] it has been synonymized with *C. agathosmus* Brandrud, H. Lindstr. & Melot. According to current monographs a synonym of this species is only *C. subviolascens* ss. Moser non ss. Rob. Henry [S105]. The specimens from the Bieszczady Mts need revision.

!#Cortinarius sylvae-norvegicae* Høil.; NChL; PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); VI; spruce brushwood; soil. **Notes:** Member of section *Dermocybe* Pers. Basidiocarps stout, cap up to 9 cm in diameter, obtusely umbonate to convex. Cap surface fibrillose, grayish or brownish yellow to dirty yellow with olive tint. Stem up to 10 cm high, yellow or dirty yellow, felty. Lamellae yellow to orange yellow. Basidia 4-spored. Spores ovoid, ellipsoid to amygdaloid, rusty brown, verrucose, 7–9 × 4.5–5.5 µm. Cystidia absent. Pileipellis an epicutis. Clamps present. Specimens seen: 02.06.2010, leg. A. Kujawa, det. B. Gierczyk, fungarium no. BdPN-01357.

****Cortinarius tabularis* (Fr.) Fr.; LR:** [S6].

****Cortinarius torvus* (Fr.) Fr.; LR:** [S4,S6].

#Cortinarius uliginosus* Berk. f. *uliginosus*; PP:** Beniowa (Szczob); VIII; fir-beech forest (seep); soil.

****Cortinarius varicolor* (Pers.) Fr.; LR:** [S6,S9].

**Cortinarius vibratilis* (Fr.) Fr.; LR: [S1]. UP: Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil.

*♦*Cortinarius violaceus* (L.) Gray; RL-V; LR: [S6,S55].

#*♦*Cotylidia pannosa* (Sowerby) D.A. Reid (Fig. S17); RL-E; UP: Wetlina, Dwerniczek 2 km N, Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt), NE slope of Wielka Rawka Mt; VIII-X; beech forest, fir-beech forest; soil.



Fig. S17. Basidiomata of *Cotylidia pannosa* (Sowerby) D.A. Reid from the Bieszczady Mts (Oct 05, 2010). Photography by G. Domian.

*♦*Craterellus cornucopioides* (L.) Pers.; LR: [S1,S4,S6,S13]. PP: Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, Sołynki Forest), S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne 3.5 km SW (Czuryłowo), Wołosate 3.5 km E (Horbki); VIII-X; beech forest, fir-beech forest; soil. UP: Wołosate (near the water intake), Dwerniczek 3 km N, Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska

Mt), Muczne 2 km SW (Jamniczna), Hulskie NR, Sine Wiry NR (S slope of Połoma Mt); VIII, X; shrubs, beech forest, fir-beech forest; soil.

*♦ *Creolophus cirrhatus* (Pers.) P. Karst.; **RL-V;LR:** [S9] (as *Hericium diversidens* (Fr.) Nikol.), [S1,S12]. **PP:** Wetlina (Górna Solinka valley); VI; beech forest; *Fagus* trunk. **UP:** Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Fagus* trunk.

*♦ *Crepidotus applanatus* (Pers.) P. Kumm.; **RL-R, SSI(B); LR:** [S1,S5,S7,S9]. **PP:** W from Zatwarnica (Tworylczyk valley), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Czerteżyk Łocentyków), Wetlina Górna (BdNP camping place), S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Ustrzyki Górne 3.5 km SW (Czuryłowo), Wołosate (SW slope of Semków Wierszek Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate (N slope of Kiczera Manzowa Mt), Muczne 2 km SW (Jamniczna), Wołosate (Polaniec valley), Wołosate 3.5 km E (Horbki), Beniowa (Szczob), Jamniczna (vicinity of Muczne), Łopienka near Cisna (Łopienka valley); VI-VIII; beech forest, fir-beech forest, riparian forest, deciduous forest; *Fagus* branches and logs, *Fraxinus* trunk, wood. **UP:** Wetlina (Górna Solinka valley), Beniowa 6 km S, Wołosate 4 km E (Hawry Forest), Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VIII-X; beech forest, fir-beech forest; *Fagus* trunk, logs and branches.

♦ *Crepidotus carpaticus* Pilát; **LR:** [S7] (as *C. wakefieldiae* Pilát). **Notes:** In Poland known only from the Bieszczady Mts.

*♦ *Crepidotus cesatii* (Rabenh.) Sacc. var. *cesatii*; **SSI(C); LR:** [S9], [S5] (as *C. sphaerosporus* (Pat.) Lange). **PP:** Wetlina (Lutowy valley); V-VI; roadside, beech forest; deciduous wood, *Salix* branch.

Crepidotus cesatii* (Rabenh.) Sacc. var. *subsphaerosporus* (J.E. Lange) Senn-Irlet; **LR: [S9] (as *C. variabilis* var. *subsphaerosporus* (Pers.) Quél.).

Crepidotus cinnabarinus Peck; **LR:** [S12]. **Notes:** In Poland also known from vicinity of Słupsk [S127].

#*♦ *Crepidotus epibryus* (Fr.) Quél.; UP: Wetlina (Górna Solinka valley); X; beech forest, roadside; litter.

*♦ *Crepidotus lundellii* Pilát; LR: [S9]. PP: Wetlina (Górna Solinka valley, Mohyłka), Dźwiniacz (cemetery); VI; beech forest, tree clump; deciduous wood. UP: Lutowiska (near Jewish cemetery); VIII; meadow; litter.

?♦ *Crepidotus luteolus* (Lambotte) Sacc.; RL-V; LR: [S51]. Notes: This species has been included onto checklist of Polish basidiomycetes [S51] with reference to Domański et al. [S9]; however, it has not been mentioned in the original paper.

*♦ *Crepidotus mollis* (Schaeff.) Stauder var. *mollis*; LR: [S1,S6,S12,S13]. PP: Wetlina Górna (BdNP camping place); VI; shrubs by the stream; *Salix* branch. UP: Dwerniczek 1 km N, SW from Zatwarnica (Hulski valley), between Muczne and Tarnawa (769 m asl pass); VIII-IX; roadside, beech forest; wood.

♦ *Crepidotus variabilis* (Pers.) P. Kumm.; LR: [S12].

#* *Crepidotus versutus* (Peck) Sacc.; PP: Wołosate (S slope of Wysoki Wierch Mt, Zwirce and Bukowinki); VI; mixed forest; wood.

*♦ *Crucibulum laeve* (Huds.) Kambly; LR: [S6], [S7] (as *C. vulgare* Tul.). PP: Tarnawa Niżna; VI; roadside, wood. UP: Dwerniczek 1 km N, Hulskie NR 2 km W (near abandoned quarry), between Muczne and Tarnawa (769 m asl pass); VI, VIII; roadside, wood remains.

* *Cyathus olla* (Batsch) Pers.; LR: [S4]. UP: Lutowiska (Jewish cemetery); VIII; open place; litter.

*♦ *Cyathus striatus* (Huds.) Willd.; LR: [S1,S6,S7]. PP: Suche Rzeki (Czerzeżyk Łocentyków), Wetlina (Lutowy valley), Wetlina (Górna Solinka valley); VI, X; shrubs by the stream, old campfire place, roadside; litter, charcoal, wood. UP: Lutowiska (Filówka spring), Sękowiec 1.5 km N, Dwerniczek 1 km N, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Dwerniczek 1.5 km N (S slope of Trohaniec Mt); VIII; beech forest, deciduous forest, fir-beech forest, roadside; deciduous trunk and branches, wood remains, soil.

* *Cylindrobasidium evolvens* (Fr.) Jülich; LR: [S5,S7] (as *Corticium evolvens* (Fr.) Fr.).

#*♦ *Cystoderma amianthinum* (Scop.) Fayod; **PP:** Wetlina (Górna Solinka valley, Chyżyszcze); X; mixed brushwoods; soil.

*♦ *Cystoderma carcharias* (Pers.) Fayod var. *carcharias*; **LR:** [S5,S7,S45]. **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest, spruce brushwood; soil.

*♦ *Cystoderma carpaticum* M.M. Moser (**Fig. S18**); **LR:** [S4,S128,S129]. **Notes:** In Poland known only from the Bieszczady Mts. *Locus classicus* in Bieszczady NP.



Fig. S18. Basidiomata of *Cystoderma carpaticum* M.M. Moser in the Bieszczady Mts (Sep 07, 2011). Photography by K. Kujawa.

#*♦ *Cystodermella adnatifolia* (Peck) Harmaja; **NChL; PP:** Wetlina (Lutowy valley); beech forest; wood. **Notes:** In Poland also known from Kampinos NP [S35].

*♦ *Cystodermella cinnabarina* (Alb. & Schwein.) Harmaja; **RL-R; LR:** [S6] (as *Cystoderma cinnabarinum* (A. & S. ex Sacc.) Fay.). **UP:** Wetlina (Górna Solinka valley); X; beech forest; soil.

*♦ *Cystodermella granulosa* (Batsch) Harmaja var. *granulosa*; RL-I; LR: [S6] (as *Cystoderma granulosum* (Batsch) Fayod).

*♦ *Cystolepiota seminuda* (Lasch) Bon; LR: [S9] (as *Lepiota seminuda* (Lasch) Gillet). UP: Sine Wiry NR (near Wetlina stream); VIII; clearing in riparian forest; soil.

*♦ *Cystostereum murrayi* (Berk. & M.A. Curtis) Pouzar; RL-V; LR: [S1,S7,S56]. PP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek); VI; fir-beech forest; *Fagus* log.

*♦ *Cystostereum pini-canadense* (Schwein.) Parmasto subsp. *subabruptum* (Bourd. & Galz.) Chamuris; RL-E; LR: [S5,S6,S7,S9] (as *Odontia subabrupta* Bourdot & Galzin), [S4] (as *Crustomyces subabruptus* (Bourdot & Galzin) Jülich). PP: Tworylczyk valley; VI; fir-beech forest; *Fagus* log. UP: Ustrzyki Górne 1.5 km NW (slope of Połonina Caryńska Mt); IX; beech forest; *Fagus* log.

**Cytidia salicina* (Fr.) Burt; RL-E; LR: [S9]. UP: Wołosate; IX; *Alnetum incanae*; *Salix fragilis* branch.

#**Dacrymyces lacrymalis* (Pers.) Sommerf.; PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); VI; beech forest; wood.

*♦ *Dacrymyces stillatus* Nees; LR: [S9] (as *D. deliquescens* Pers.), [S1]. PP: Suche Rzeki (Czerzeżyk Łocentyków), Wetlina (Górna Solinka valley, Mirki); V-VI; beech forest; *Fagus* branches and logs.

#*♦ *Dacryobolus karstenii* (Bres.) Oberw. ex Parmasto (Fig. S19); RL-E; UP: Wetlina (Górna Solinka valley); X; beech forest; *Abies* log.

Dacryobolus sudans (Alb. & Schwein.) Fr.; RL-E; LR: [S7].

?*Dacryomyces lutescens* Bref.; LR: [S9]. Notes: Species not mentioned in current monographs, probably *nomen dubium* [S130,S131,S132]. The specimens from the Bieszczady Mts have not been preserved.

*♦ *Daedaleopsis confragosa* (Bolton) J. Schröt.; LR: [S6] (as *Trametes confragosa* (Bolt.) Jörst. f. *rubescens* (A. & S.) Pil.), [S9] (as *D. confragosa* (Bolt.) Jörst. and *D. confragosa* (Bolt.) Jörst. f. *rubescens* (A. & S.) Pil.), [S5,S7] (as *Daedalea confragosa* (Bolton) Pers.),

[S1,S12]. **PP:** Suche Rzeki, Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Ustrzyki Górne 2 km SW (Wierch Mt), Ustrzyki Górne 3.5 km SW (Czuryłowo), Wołosate 3.5 km E (Horbki), near Beniowa (Górny San valley nature trail); VI-VIII; roadside, beech forest, spruce forest, mixed forest, *Alnetum incanae*; *Alnus incana* trunk, *Salix caprea* branch. **UP:** Sękowiec 1.8 km N, Lutowiska (Jewish cemetery), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; deciduous forest, tree clump; deciduous branch, *Crataegus monogyna* branch. **Notes:** In paper [S1] the names used by Domański et al. [S6] are incorrectly cited.



Fig. S19. Basidiomata of *Dacryobolus karstenii* (Bres.) Oberw. ex Parmasto from the Bieszczady Mts (Oct 09, 2010). Photography by G. Domian.

*♦*Daedaleopsis tricolor* (Bull.) Bondartsev & Singer; **RL-R; LR:** [S6] (as *Trametes confragosa* (Bolt.) Jörsst. f. *tricolor* (Bull.) Bond.), [S9] (as *D. confragosa* (Bolton) J. Schröt. var. *tricolor* (Bull.) Bondartsev), [S133]. **PP:** W from Zatwarnica (Tworylczyk valley), Suche Rzeki, Wetlina (Górna Solinka valley, SW slope of Dział Mt), Połonina Caryńska

(Waprewnik), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Ustrzyki Górne (by the bridge over Wołosaty stream), W from Wołosate bog (Wielkie Pole), Wołosate (N slope of Kiczera Mt, Za Potok); VI-X; beech forest, hazel shrubs, fir-beech forest, mixed forest, *Alnetum incanae*; *Fagus* log, *Corylus* branch, *Alnus incana* branch. **UP:** Lutowiska 6.4 km W; Pszczeliny-Widełki (3 km SE from forester's lodge), Bereżki 1.5 km SE (S slope of Kiczera Mt), Sine Wiry NR; VII-IX; beech forest, deciduous forest, hornbeam forest; wood, *Corylus* branch. **Notes:** In paper [S1] the names used by Domański et al. [S6] are incorrectly cited.

*♦*Datronia mollis* (Sommerf.) Donk; **LR:** [S6] (as *Trametes mollis* (Sommerf.) Fr.), [S5,S57] (as *Antrodia mollis* (Sommerf.) Karst.), [S1,S12]. **PP:** Wetlina (Górna Solinka valley), W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Ustrzyki Górne 3.5 km SW (Czuryłowo), Tarnawa Niżna (Szyryń); VI-VIII; beech forest, fir-beech forest, roadside; *Fagus* log, *Malus* trunk. **UP:** Dwerniczek 1.5 km N, Wołosate 7 km E (Bukowska Pass), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), S from Wetlina (Czerzeż pass), NE from Smerek (N slope of Smerek Mt), Sine Wiry NR (S slope of Połoma Mt); VIII-IX; beech forest; *Fagus* trunk, log and branches, *Acer pseudoplatanus* trunk.

Datronia stereoides* (Fr.) Ryvarden; **RL-E; LR: [S9,S57] (as *Antrodia stereoides* (Fr.) Bond. & Sing.).

Deconica chionophila* (Lamoure) Noordel.; **NChL; LR: [S1] (as *Psilocybe chionophila* Lamoure). **Notes:** In Poland known only from the Bieszczady Mts.

*♦*Deconica coprophila* (Bull.) P. Karst.; **RL-R; LR:** [S1,S5] (as *Psilocybe coprophila* (Bull.) P. Kumm.). **PP:** Tarnawa Niżna (horse stud), Wołosate (horse stud), Wetlina Górna (BdNP camping place); VI, X; horse stud site, roadside; *Equus caballus* dung, straw, manure.

*♦*Deconica crobula* (Fr.) Romagn.; **LR:** [S7]. **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Berehy Górne; VI; meadow, spruce brushwood; litter.

Deconica inquilina* (Fr.) Romagn.; **LR: [S4] (as *Psilocybe inquilina*). **PP:** Suche Rzeki (SE slope of Maguryczy Mt), Dźwiniacz (near cemetery); VI; roadside; litter. **UP:** Wołosate (horse stud); VII; horse stud site; herbaceous plant remains.

*♦*Deconica merdaria* (Fr.) Ricken; **RL-R; LR:** [S9] (as *Psilocybe merdaria* (Fr.) Ricken).

Deconica merdicola* (Huijsman) Noordel.; NChL; LR: [S1] (as *Psilocybe merdicola* Huijsman), [S4]. **Notes: In Poland known only from the Bieszczady Mts.

Deconica phillipsii* (Berk. & Broome) Noordel.; RL-E; LR: [S1,S4] (as *Melanotus phillipsii* (Berk. & Broome) Singer). **PP: Berehy Górne; VI; meadow; ferns' remains. **UP:** Wołosate (N part of the village); VII; roadside; grasses' remains.

*♦*Deconica phyllogena* (Sacc.) Noordel.; LR: [S9] *Deconica rhombispora* (Britzelm.) Singer), [S1] (as *Psilocybe phyllogena* (Peck) Peck).

*♦*Delicatula integrella* (Pers.) Fayod; SSI(B); LR: [S9].

*♦*Dendrothele acerina* (Pers.) P.A. Lemke; RL-R; LR: [S7] (as *Aleurodiscus acerinus* (Pers.) Höhn. & Litsch.), [S4].

*♦*Dentipellis fragilis* (Pers.) Donk (Fig. S20); RL-R, I++, SSI(B); LR: [S1,S5,S7]. **PP:** W from Zatwarnica (Tworylczyk valley), SE from Bereżki (NW slope of Widełki Mt), Ustrzyki Górne 3.5 km SW (Czuryłowo), Wołosate 3.5 km E (Horbki), Wołosate 3.5 km E (Roztoki); VI-VIII; beech forest, fir-beech forest; *Fagus* log and branches. **UP:** Wołosate 1 km S, Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), Ustrzyki Górne 5 km W (slope of Wielka Rawka Mt), Wołosate 7 km E (Bukowska Pass), Wetlina (N slope of Sękowa, Jawornik range), Ustrzyki Górne 1.5 km NW (slope of Połonina Caryńska Mt), NE slope of Wielka Rawka Mt, Muczne (NE slope of Kudriawyński Wierch Mt); VIII-X; beech forest, fir-beech forest; *Fagus* log, *Abies* log.

##**Dermoloma pseudocuneifolium* Bon; NChL; **UP:** Wetlina (Górna Solinka valley); X; roadside; soil. **Notes:** In Poland also known from "Owczary" protected area [S110], Gdańsk [S43] and Białowieża NP [S46].

**Dichomitus campestris* (Quél.) Domanski & Orlicz; RL-V; LR: [S4,S5,S134].

**Dichomitus squalens* (P. Karst.) D.A. Reid; RL-V; LR: [S5].

**Diplomitoporus flavescens* (Bres.) Domanski; RL-R; LR: [S1,S4].

Ditiola peziziformis* (Lév.) D.A. Reid; RL-E, SSI(B); LR: [S1]. **UP: Near Bereżki (NE slope of Kiczera Bereżczańska Mt); VIII; mixed forest; *Abies* branch.



Fig. S20. Basidiomata of *Dentipellis fragilis* (Pers.) Donk from the Bieszczady Mts (Aug 20, 2009). Photography by G. Domian.

*♦*Echinoderma aspera* (Pers.) Bon; LR: [S6,S13] (as *Lepiota acutesquamosa* (Weinm.) Gill.), [S1] (as *L. aspera* (Pers.) Quél.). UP: S from Zatwarnica (Hylaty valley); IX; beech forest; soil.

**Echinoderma calcicola* (Knudsen) Bon; LR: [S135]. Notes: In Poland also known from vicinity of Elbląg [S136,S137] and from Poznań [S138].

#*Echinoderma echinacea* (J.E. Lange) Bon; RL-V; UP: near Bereżki (NE slope of Kiczera Berezczńska Mt); VIII; mixed forest; soil.

#*♦*Echinoderma perplexa* Knudsen; PP: Bereżki 2 km NW; VIII; beech-ash tree forest; soil.

**Entoloma atromarginatum* (Romagn. & Favre) Zschieschang; RL-E; LR: [S9] (as *Rhodophyllus atromarginatus* Romagn. & Favre). Notes: In Poland also known from Świętokrzyskie Mts [S77,S97,S139,S140].

!#**Entoloma bisporigerum* (P.D. Orton) Noordel.; NChL; PP: Beniowa (Kiczera Beniowska Mt); VIII: fir-beech forest; soil. Notes: Basidiocarps clitocyboid. Caps 2–4 cm in diameter, convex, with depressed or umbilicate center, translucently striate, hygrophanous, smooth, grayish brown to dark ocher brown, often with reddish tint. Stipe cylindrical, smooth, pale brownish, up to 5 cm high. Lamellae with decurrent tooth, white, becoming dirty pink with age. Smell farinaceous-rancid. Basidia 2-spored. Spores heterodiametrical, 7–9 angled, 10–12.5 × 8–10 μm. Cystidia absent. Pilei- and stipitipellis a cutis, pigment intracellular. Clamps present. Specimens seen: 22.08.2009, leg. G. Domian, det. B. Gierczyk, fungarium no. BdPN-01086.

*♦*Entoloma byssisedum* (Pers.) Donk; RL-R; LR: [S1]. UP: S from Zatwarnica (Hylaty valley, Izwir), Pszczeliny 2 km W (SE slope of Kosowiec Mt); VIII-IX; beech forest, fir-beech forest; wood.

#**Entoloma canosericeum* (J.E. Lange) Noordel.; PP: W slope of the Halicz Mt (seep); VIII; *Pulmonario-Alnetum viridis*; soil.

*♦*Entoloma cetratum* (Fr.) M.M. Moser; LR: [S9] (as *Rhodophyllus cetratus* (Fr.) Quél.). PP: Suche Rzeki (Czerteżyk Łocentyków), Wetlina (Lutowy valley), Beniowa (Szczob), SE from Bereżki (NW slope of Widełki Mt), Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt); VI-X; fir-beech forest, beech forest; soil.

?*Entoloma chalybaeum* (Fr.) Noordel. var. *chalybeum*; RL-R; LR: [S51]. Notes: In original paper by Domański et al. [S9], cited in checklist by Wojewoda [S51], this species is not reported.

Entoloma clandestinum (Fr.) Noordel.; RL-E; LR: [S7] (as *Rhodophyllus clandestinus* (Fr.) Quél.).

**Entoloma clypeatum* (L.) P. Kumm.; LR: [S68].

*♦*Entoloma conferendum* (Britzelm.) Noordel. var. *conferendum*; LR: [S6,S9] (as *Rhodophyllus staurosporus* (Bres.) J.E. Lange), [S1]. PP: Wetlina (Lutowy valley); X;

meadow; soil. **UP:** Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦ *Entoloma conferendum* (Britzelm.) Noordel. var. *pusillum* (Velen.) Noordel.; **LR:** [S7] (as *Rhodophyllus xylophilus* J.E. Lange). **PP:** W from Zatwarnica (Tworylczyk valley), N slope of Połonina Wetlińska Mt, Ustrzyki Górne 3.5 km SW (Czuryłowo); VI-VIII; beech forest; *Fagus* log, wood.

Entoloma cyanulum* (Lasch) Noordel.; **RL-E; LR: [S9] (as *Rhodophyllus cyanulus* (Lasch) J.E. Lange).

##**Entoloma dysthaloides* Noordel.; **PP:** Bereżki 2 km NW; VIII; hazel-ash tree forest; soil. **UP:** Wołosate; IX; *Alnetum incanae*; soil.

#*Entoloma euchroum* (Pers.) Donk; **RL-R; UP:** Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt), Sine Wiry NR (near Wetlina stream); VIII; fir-beech forest, riparian forest; trunk.

?*Entoloma griseorubidum* Kühner ex Noordel.; **LR:** [S51]. **Notes:** Species included on checklist [S51] with reference to Domański et al. [S9]. In this paper it has not been listed; however, *Rhodophyllus griseorubellus* (Lasch.) Quél. sensu Lange (= *E. huijsmanii* Noordel.) has been mentioned. The correct synonymic name of *E. griseorubidum* Kühner ex Noordel. is *Rhodophyllus griseorubellus* (Lasch.) Quél. ss. Konrad & Maubl.

*♦ *Entoloma hirtipes* (Schumach.) M.M. Moser; **LR:** [S1].

Entoloma huijsmanii* Noordel.; **NChL; LR: [S9] (as *Rhodophyllus griseorubellus* (Lasch.) Quél. sensu Lange). **Notes:** In Poland also known from Babia Góra NP [S141].

Entoloma incanum* (Fr.) Hesler; **LR: [S142].

#*Entoloma incarnatofuscescens* (Britzelm.) Noordel.; **UP:** Pszczeliny-Widełki (1 km S from forester's lodge), Near Bereżki (NE slope of Kiczera Bereźczańska Mt); VIII-IX; beech forest, mixed forest; soil.

*♦ *Entoloma infula* (Fr.) Noordel.; **LR:** [S9] (as *Rhodophyllus infula* (Fr.) J.E. Lange).

Entoloma inusitatum Noordel., Enderle & H. Lammers; **NChL; LR:** [S1]. **Notes:** In Poland also known from Kampinos NP [S35], Kaczawskie Mts and Izerskie Foothills [S33].

**Entoloma juncinum* (Kühner & Romagn.) Noordel.; RL-R; LR: [S9] (as *Rhodophyllus junceus* (Fr.) Quél.). UP: NE slope of Wielka Rawka Mt; VIII; fir-beech forest; soil.

**Entoloma lampropus* (Fr.) Hesler; RL-V; LR: [S9] (as *Rhodophyllus lampropus* (Fr.)).

**Entoloma lanicum* (Romagn.) Noordel.; LR: [S9] (as *Rhodophyllus lanicum* Romagn.).

?*Entoloma lividocyanulum* Noordel.; LR: [S1]. Notes: Mistakenly mentioned from the Bieszczady Mts by Gierczyk et al. [S1], because of wrong interpretation of name *Rhodophyllus griseorubellus* (Lasch.) Quél. sensu Lange, used by Domański et al. [S9].

**Entoloma mougeotii* (Fr.) Hesler; RL-V; LR: [S9] (as *Rhodophyllus mougeotii* Quél.).

**Entoloma myochroum* Noordel. & E. Ludw.; NChL; LR: [S1]. Notes: In Poland known only from the Bieszczady Mts.

**Entoloma nitens* (Velen.) Noordel.; NChL; LR: [S1].

##*Entoloma noordeloosi* Hauskn.; NChL; UP: SW from Muczne (Jamniczna); VIII; fir-beech forest; soil. Notes: In Poland known also from Kaczawskie Foothills [S33].

!#*♦*Entoloma olorinum* (Romagn. & J. Favre) Noordel.; NChL; PP: Wetlina (Górna Solinka valley, Sołynki Forest); X; spruce brushwood; soil. Notes: Basidiomata mycenoid. Caps 1.5–2.5 cm in diameter, campanulate to convex then appanate, hygrophanous, translucently striate, white, cream-colored or buff, glabrous. Stipe cylindrical, white to pale buff, indistinctly longitudinally fibrillose, pruinose at apex. Lamellae distant, with decurrent tooth, white, becoming pink with age. Basidia 4-spored. Spores heterodiametrical, 5–7 angled, 8–12 × 5.5–8.5 μm. Cystidia absent. Pileipellis a cutis with some clavate elements. Stipitipellis a cutis. Clamps present. Specimens seen: 08.10.2009, leg. B. Gierczyk, det. A. Kujawa, B. Gierczyk, fungarium no. BdPN-01253.

**Entoloma pallescens* (P. Karst.) Noordel.; NChL; LR: [S143]. PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt); VI; deciduous forest; soil. Notes: In Poland also known from Tatry Mts [S123,S124].

##*Entoloma parasiticum* (Quél.) Kreisel; NChL; PP: Wołosate (N slope of Kiczera Mt, Za Potok), near Beniowa (Górny San valley nature trail); VIII; beech forest, spruce forest; *Abies* log, *Fagus* wood. Notes: Species also known from Dezydery Chłapowski LP [S40] and vicinity of Radomsko [S144].

*♦*Entoloma pleopodium* (Bull.) Noordel.; RL-R; LR: [S9] (as *Rhodophyllus pleopodius* (Bull.) Quél.), [S1].

!#**Entoloma poliopus* (Romagn.) Noordel. var. *parvisporigerum* Noordel.; NChL; PP: Wetlina (Górna Solinka valley); VI; meadow; soil. **Notes:** Basidiomata mycenoid. Caps 2–3.5 cm, hemispherical, campanulate to convex, sometimes with depressed centre, translucently striate, almost not hygrophanous, dark brown, dark grayish brown to chestnut brown, darker, almost black, in centre, radially fibrillose to squamulose. Stipe cylindrical, polished with somewhat pruinose apex, dark gray-brown with bluish or steel tint. Lamellae broadly adnate, rather crowded, white becoming pinkish gray with age, with concolorous, fimbriate edge. Basidia 4-spored. Spores heterodiametrical, 6–8 angled, smaller than in nominal variety, 8–10.5 × 5.5–7.5 µm. Lamellar edge sterile, cheilocystidia cylindrical, clavate, narrowly lageniform, colorless. Pleurocystidia absent. Pileipellis a transition between cutis and trichoderm, terminal elements clavate. Pigment intracellular. Stipitipellis a cutis. Clamps absent. Specimens seen: 02.06.2010, leg. T. Pachlewski, det. B. Gierczyk, fungarium no. BdPN-01411.

#*♦*Entoloma politum* (Pers.) Donk; UP: Wetlina (Górna Solinka valley); X; roadside; soil.

**Entoloma prunuloides* (Fr.) Quél.; RL-E; LR: [S6] (as *Rhodophyllus prunuloides* (Fr.) Quél.).

#**Entoloma pseudoturbidum* (Romagn.) M.M. Moser; RL-E; UP: Wetlina (Górna Solinka valley); VI; beech forest; soil. **Notes:** Species also known from Pieniny NP [S129].

**Entoloma rhodocalix* (Lasch) M.M. Moser; RL-R; LR: [S9] (as *Rhodophyllus rhodocylis* (Lasch) Quél.).

*♦*Entoloma rhodopolium* (Fr.) P. Kumm. f. *nidorosum* (Fr.) Noordel.; LR: [S6,S9] (as *Rhodophyllus nidorosus* (Fr.) Quél.), [S1]. UP: NE slope of Wielka Rawka Mt, Stuposiany 2 km SW (S slope of Prypiczek Mt), Muczne 2 km SW (Jamniczna), Breżki 2 km NW, Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); fir-beech forest, mixed forest; soil.

*♦*Entoloma rhodopolium* (Fr.) P. Kumm. f. *rhodopolium*; LR: [S13], [S5,S6,S9] (as *Rhodophyllus rhodopolis* (Fr.) Quél.). UP: Czarna 5 km S, Wołosate 2 km NE (N slope of

Hudów Wierszek Mt), Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; beech forest, deciduous forest, fir-beech forest; soil.

**Entoloma rusticoides* (Gillet) Noordel.; RL-E; LR: [S9] (as *Rhodophyllus rusticoides* (Gillet) J.E. Lange).

*♦*Entoloma sericellum* (Fr.) P. Kumm.; LR: [S9] (as *Rhodophyllus sericellus* (Fr.) Quél.). UP: Wetlina (Górna Solinka valley); X; near the stream; soil.

!#**Entoloma sericeoides* (J.E. Lange) Noordel.; NChL; PP: Wetlina (Lutowy valley); X; meadow; soil. **Notes:** Basidiomata omphalinoid to clitocyboid. Caps 2–4 cm in diameter, convex, depressed with involuted margin, hygrophanous, almost not striate, chestnut brown, rusty brown or dark sepia, glabrous. Stipe cylindrical, 2–4 cm high, concolorous with pileus, longitudinally striate. Lamellae with decurrent tooth, crowded. Smell farinaceous. Basidia 4-spored. Spores isodiametrical, 7.5–9.5 µm in diameter. Cystidia absent. Pilei- and stipitipellis a cutis. Pigment encrusting. Clamps absent. Specimens seen: 10.10.2009, leg. B. Gierczyk, det. A. Kujawa, B. Gierczyk, fungarium no. BdPN-01148.

*♦*Entoloma sericeum* Quél.; LR: [S5,S7] (as *Rhodophyllus sericeus* Bull. ex Quél.).

*♦*Entoloma sinuatum* (Bull.) P. Kumm.; LR: [S5] (as *Rhodophyllus sinuatus* (Bull.) Singer).

#*Entoloma subradiatum* (Kühner & Romagn.) M.M. Moser; UP: Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

##**Entoloma versatile* (Fr.) M.M. Moser; UP: Muczne 1 km SW (NE slope of Bukowe Berdo Mt); VIII; mixed shrubs; soil.

*♦*Eocronartium muscicola* (Pers.) Fitzp.; RL-E; LR: [S4]. UP: N slopes of Połonina Wetlińska Mt (Za Kozieńcem valley), E slope of Połonina Wetlińska Mt; VI-VII; beech forest, fir-beech forest; *Sanionia uncinata* on *Fagus* log.

?♦*Exidia cartilaginea* S. Lundel & Neuhoff.; RL-E; LR: [S5]. **Notes:** According to Wojewoda [S51,S145] this species is incorrectly reported from the Bieszczady Mts since the specimens collected by Domański et al. [S5] belong to another, indeterminable species.

*♦*Exidia plana* Donk; LR: [S1,S66]. PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek Mt), Suche Rzeki (E slope of Maguryczy Mt), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Rzeka valley), Suche Rzeki (W slope of Jawornik Mt), Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley, Mirki), Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, Chyżyszcze), Bereżki, Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Ustrzyki Górne (by the bridge over Wołosaty stream), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki), Dźwiniacz (cemetery); V-X; fir-beech forest, beech forest, shrubs by the stream, tree clump, mixed forest, *Alnetum incanae*; *Fagus* branches and logs, *Alnus incana* branch, *Corylus* branch, *Salix* branch. UP: Sękowiec 1.8 km N; VIII; deciduous forest; deciduous branch. Notes: According Wojewoda [S66] specimens collected by Domański et al. [S5,S6,S9] were incorrectly determined as *E. glandulosa* (Bull.) Fr., and are, in fact, *E. plana* Donk.

**Exidia repanda* Fr.; RL-E; LR: [S51,S66,S145].

*♦*Exidia truncata* Fr.; RL-R; LR: [S12] (as *E. glandulosa* (Bull.) Fr.). PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); VI; beech forest; wood. Notes: In papers by Domański et al. [S5,S6,S9] *E. glandulosa* (Bull.) Fr. (= *E. truncata* Fr.) was reported; however, Wojewoda [S66] revised these specimens and re-determined them as *E. plana* Donk.

*♦*Flammulaster carpophilus* (Fr.) Earle; RL-R; LR: [S7] (as *Phaeomarasmium carpophilus* (Fr.) Singer). PP: Wetlina (Górna Solinka valley), Ustrzyki Górne (by the bridge over Wołosaty stream), Muczne 2 km SW (Jamniczna), E slope of Połonina Wetlińska Mt; V-VIII; beech forest, fir-beech forest, roadside, mixed forest; litter.

#**Flammulaster granulosus* (J.E. Lange) Watling; PP: Wetlina (Lutowy valley); X; shrubs by the stream; soil.

*♦*Flammulaster limulatus* (Fr.) Watling var. *limulatus* (Fig. S21); I++, SSI(C); LR: [S1]. PP: Wołosate 3.5 km E (Horbki), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt); VIII; beech forest; *Fagus* log.

*♦*Flammulaster muricatus* (Fr.) Watling; I++, SSI(A); LR: [S7] (as *Gymnopilus muricatus* Fr.), [S1]. PP: Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; branch. UP:

Przysłup 2 km SW, Wołosate 1 km S, Rozsypaniec Mt 1 km SW; VII-IX; beech forest; *Fagus* log.



Fig. S21. Basidiomata of *Flammulaster limulatus* (Fr.) Watling var. *limulatus* from the Bieszczady Mts (Aug 21, 2009). Photography by G. Domian.

****Flammulaster siparius* (Fr.) Watling; LR: [S9] (as *Phaeomarasmius siparius* (Fr.) Singer).**
Notes: In Poland also known from Puszcza Augustowska Primeval Forest [S146] and Białowieża NP [S107].

****Flammulaster subincarnatus* (Joss. & Kühner) Watling; LR: [S7] (as *Phaeomarasmius pygmaeus* (Bull.) Singer).** **PP:** Bereżki 2 km NW; VI; beech forest; wood.

#*♦*Flammula alnicola* (Fr.) P. Kumm.; UP: Ustrzyki Górne 4 km W (by the tourist trail to Wielka Rawka Mt), Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt); IX; beech forest; *Fagus* wood.

*♦ *Flammulina velutipes* (M.A. Curtis) P. Karst. var. *velutipes*; LR: [S4,S5].

*♦ *Flaviporus citrinellus* (Niemelä & Ryvardeen) Ginns; RL-E; LR: [S1] (as *Antrodiella citrinella* Niemelä & Ryvardeen).

*♦ *Fomes fomentarius* (L.) Fr.; LR: [S1,S4,S5,S6,S7,S11,S12,S13,S14,S64]. PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Rzeka valley), Nasiczne (E slope of Magura Nasiczańska Mt), Wetlina (Górna Solinka valley, SW slope of Dział Mt), S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Ustrzyki Górne (by the bridge over Wołosaty stream), Ustrzyki Górne 2 km SW (Wierch Mt), Tarnawa Niżna (Szyryń), Wołosate (Polaniec valley), Wołosate 2.5 km E (Horbki), near Beniowa (Górny San valley nature trail); VI-X; beech forest, roadside, shrubs by the stream, fir-beech forest, spruce forest, *Alnetum incanae*, mixed forest; *Alnus incana* trunk, *Fagus* trunks and logs, *Betula* trunk, *Acer pseudoplatanus* log, *Corylus* branch. UP: NNW from Zatwarnica (near Hulskie NR), Ustrzyki Górne 2 km W (by the tourist trail to Wielka Rawka Mt), near Pszczeliny (3 km S from Widełki forester's lodge), S from Zatwarnica (Hylaty valley, Izwir), Ustrzyki Górne 1.5 km NW (by the tourist trail to Połonina Caryńska Mt), Dwerniczek 3.5 km N, Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW, Muczne (NE slope of Kudriawyński Wierch Mt); VIII-X; beech forest, fir-beech forest; *Fagus* logs and trunks.

*♦ *Fomitopsis pinicola* (Sw.) P. Karst.; LR: [S6] (as *Fomes marginatus* (Pers.) Gillet and *Fomes marginatus* (Pers.) Gillet f. *resupinatus* Bourd. & Galz.), [S7,S9] (as *F. pinicola* (Sw.) Karst. and *F. pinicola* (Sw.) Karst. f. *resupinata* Bourd. & Galz.), [S1,S4,S5,S11,S12]. PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Rzeka valley), Suche Rzeki (Czerteżyk Łocentyków), Nasiczne (E slope of Magura Nasiczańska Mt), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Bereżki, S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Ustrzyki Górne (by the bridge over Wołosaty stream), near Dźwiniacz Górny (Dźwiniacz bog), Tarnawa Niżna (Szyryń), Wołosate (Polaniec valley), Wołosate 2.5 km E (Horbki), near Beniowa (Górny San valley nature trail),

Beniowa (Szczob), Beniowa (Kiczera Beniowska); VI-X; beech forest, shrubs by the stream, fir-beech forest, spruce forest, larch-spruce forest, bog, *Alnetum incanae*; *Fagus* logs and trunks, *Picea* log, *Alnus incana* log and branches, *Abies* log. **UP:** Lutowska (nature trail), Beniowa 4.5 km S (Niedźwiedzi valley), Dwerniczek 3.5 km N, Pszczeliny-Widełki (1 km S from forester's lodge), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW, Muczne 2 km SW (Jamniczna), Muczne (NE slope of Kudriawyński Wierch Mt); VIII-X; deciduous forest, mixed forest, beech forest, fir-beech forest; coniferous log, *Picea* trunk and logs, *Abies* trunk and logs, *Fagus* trunk and logs.

Galerina atkinsoniana* A.H. Sm.; **LR: [S4]. **UP:** Bereżki 2 km NW; VIII; mixed forest; mosses.

Galerina calyptrata* P.D. Orton; **SSI(C); LR: [S1]. **PP:** Połonina Wetlińska Mt; VI; among herbs (subalpine zone); soil.

Galerina calyptospora Kühner; **LR:** [S1] (as *G. sahleri* (Quél.) Kühner). **UP:** Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; mosses on trunk.

#!*Galerina camerina* (Fr.) Kühner; **NChL; PP:** Beniowa (near cemetery), Beniowa (Szczob); VIII; spruce forest; *Picea* log, *Alnus incana* log.

!#!*Galerina caulocystidiata* Arnolds; **NChL; PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; spruce brushwood; mosses. **Notes:** Cap conical to campanulate, 3–6 mm in diameter, orange to orange brown, striate. Stipe cylindrical, orange brown, darker at base, pruinose on entire stem, 2–4 cm high, with white veil remains forming ring zone. Lamellae adnate, orange brown. Basidia 2-spored. Spores amygdaloid, verrucose, with plage, 9–12 × 6–7.5 µm, rusty brown. Cheilocystidia (narrowly) lageniform to subfusiform. Pleurocystidia absent. Caulocystidia narrowly lageniform. Pilei- and stipitipellis a cutis, pigment incrusting. Clamps present. Specimens seen: 07.10.2009, *leg. & det.* B. Gierczyk, fungarium no. BdPN-01296.

#!◆*Galerina clavata* (Velen.) Kühner; **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; spruce brushwood; mosses.

*♦ *Galerina hypnorum* (Schrank) Kühner s. Horak 2005 and de Haan & Walley 2006; LR: [S1,S9]. UP: NE slope of Wielka Rawka Mt; VIII; spruce forest; mosses.

*♦ *Galerina jaapii* A.H. Sm. & Singer.; RL-E; LR: [S7,S9] (as *G. mycenoides* (Fr. ss. Jaap.) Kühn.).

*♦ *Galerina marginata* (Batsch) Kühner s.l.; LR: [S7,S9] (as *G. unicolor* (Vahl) Singer). PP: W from Zatwarnica (Tworylczyk valley), Suche Rzeki (SE slope of Maguryczy Mt), Wetlina Górna (BdNP camping place), Ustrzyki Górne 3.5 km SW (Czuryłowo), Wołosate (N slope of Kiczera Manzowa Mt); VI, VIII; beech forest; *Fagus* log. UP: Wetlina (Ruwień Forest), Zatwarnica 3 km S (Hriadnik); IX-X; beech forest; wood.

**Galerina mniophila* (Lasch) Kühner; LR: [S5,S7].

**Galerina paludosa* (Fr.) Kühner; RL-R; LR: [S1,S4]. PP: near Dźwiniacz Górny (Dźwiniacz bog), Beniowa; VI, VIII; bog, fir-beech forest; soil, *Sphagnum*. UP: Tarnawa Bog; VIII; marsh forest; *Sphagnum*.

*♦ *Galerina sideroides* (Bull.) Kühner; LR: [S5]. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), NE slope of Wielka Rawka Mt; VIII; spruce forest, fir-beech forest; trunk, *Picea* log.

##*Galerina stordalii* A.H. Sm.; PP: Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; mosses.

*♦ *Galerina triscopa* (Fr.) Kühner; RL-R, SSI(B); LR: [S1,S9]. PP: Ustrzyki Górne 3.5 km SW (Czuryłowo), Tworylczyk valley; VI, VIII; beech forest; wood. UP: Lutowiska (nature trail), Ustrzyki Górne (by the tourist trail to Wielka Rawka Mt); VIII-IX; spruce forest, beech forest; trunk, *Abies* wood.

*♦ *Galerina vittiformis* (Fr.) Singer; LR: [S7,S9] (as *G. rubiginosa* (Pers.) Kühn.), [S1]. UP: Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest, mixed shrubs; mosses.

?♦ *Ganoderma australe* (Fr.) Pat.; LR: [S6] (as *G. applanatum* (Pers.) Pat. f. *australe* (Fr.) Pil.). Notes: Revision of the specimens from the Bieszczady Mts by Sokół [S147] has indicated that the determination was incorrect and that they represent *G. lipsiense* (Batsch) G.F. Atk.

*♦ *Ganoderma lipsiense* (Batsch) G.F. Atk.; LR: [S1,S4,S5,S6,S7,S9,S11,S12,S13,S54,S147] (as *G. applanatum* (Pers.) Pat.). PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Suche Rzeki (W slope of Jawornik Mt), Wetlina (Górna Solinka valley, SW slope of Dział Mt), S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Wołosate (SW slope of Semków Wierszek Mt), Dźwiniacz (cemetery), Tarnawa Niżna (Szyryń), Wołosate (Polaniec valley), Wołosate 2.5 km E (Horbki), near Beniowa (Górny San valley nature trail); VI-X; meadow, beech forest, fir-beech forest, spruce forest, shrubs by the stream, mixed forest, tree clump; *Abies* log, *Alnus incana* trunk, *Fagus* log, *Fraxinus* branch, deciduous branch. UP: Lutowiska 3.5 km SW, Ustrzyki Górne 2 km W (by the tourist trail to Wielka Rawka Mt), near Pszczeliny (2 km S from Widełki forester's lodge), S from Zatwarnica (Hylaty valley, Izwir), Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VII-IX; beech forest, fir-beech forest; *Fagus* trunk and logs.

*♦ *Geastrum fimbriatum* Fr.; RL-R; LR: [S5,S7,S148,S149].

*♦ *Gelatoporia pannocincta* (Romell) Niemelä; RL-E, I++, SSI(A); LR: [S6] (as *Poria bourdotii* Pilát.), [S5,S7,S9] (as *Gloeoporus pannocinctus* (Romell) J. Eikss.), [S4] (as *Ceriporiopsis pannocincta*), [S150,S151] (as *Polyporus pannocinctus* Romell). PP: W from Zatwarnica (Tworylczyk valley), Suche Rzeki (Czerteżyk Łocentyków), Wetlina (Górna Solinka valley, SW slope of Dział Mt); VI; beech forest, fir-beech forest; *Fagus* log. UP: Ustrzyki Górne 5 km W (slope of Wielka Rawka Mt), Wetlina (N slope of Sękowa, Jawornik range); IX; beech forest; *Fagus* log.

**Gloeocystidiellum luridum* (Bres.) Boidin; RL-E; LR: [S5].

**Gloeocystidiellum porosum* (Berk. & M.A. Curtis) Donk; LR: [S5,S9].

Gloeopeniophorella convolvens (P. Karst.) Boidin, Lanq. & Gilles; RL-E; LR: [S7] (as *Gloeocystidiellum convolvens* (P. Karst.) Donk). Notes: In Poland known only from the Bieszczady Mts.

*♦ *Gloeophyllum abietinum* (Bull.) P. Karst.; LR: [S1,S5,S7,S9]. PP: Dźwiniacz (cemetery), Zatwarnica; VI; lawn, tree clump; wood. UP: Lutowiska (near BdNP education

center), Lutowiska (playground), Bereżki 1.5 km SE (S slope of Kiczera Mt); VIII-IX; lawn, deciduous forest; wood, *Picea* log.

*♦ *Gloeophyllum odoratum* (Wulfen) Imazeki; LR: [S7] (as *Osmoporus odoratus* (Wulfen) Singer), [S1]. PP: Tarnawa Niżna (Szyryń), Beniowa (Szczyb), Beniowa (slope of Kiczera Beniowska Mt), near Beniowa (Górny San valley nature trail); VIII; spruce forest, fir-beech forest, bog; *Picea* trunk, *Abies* trunk. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Abies* trunk.

*♦ *Gloeophyllum sepiarium* (Wulfen) P. Karst.; SSI(C); LR: [S1,S5,S6,S7,S9]. PP: Beniowa (slope of Kiczera Beniowska Mt), near Beniowa (Górny San valley nature trail), Zatwarnica; VI, VIII; spruce forest, fir-beech forest, lawn; *Abies* trunk, *Picea* log, wood. UP: Lutowiska (BdNP education center), Dwerniczek 1 km N, Beniowa 4 km S (Niedźwiedzi valley), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; mixed forest, spruce forest, roadside, buildings; *Alnus incana* trunk, *Picea* log and trunk, wood.

♦ *Gloeophyllum trabeum* (Pers.) Murrill; RL-R; LR: [S12].

*♦ *Gloeoporus dichrous* (Fr.) Bres.; RL-E; LR: [S6,S58], [S150,S151] (as *Polyporus dichrous* Fr.).

*♦ *Gloiothele citrina* (Pers.) Ginns & G.W. Freeman; LR: [S5] (as *Gloeocystidiellum citrinum* (Pers.) Donk).

**Gomphidius glutinosus* (Schaeff.) Fr.; RL-R; LR: [S9,S13]. PP: Wetlina Górna (BdNP camping place); X; meadow; soil.

#*♦ *Gomphidius maculatus* (Scop.) Fr.; RL-R; PP: Wetlina Górna (BdNP camping place); beech forest, meadow, roadside; soil (under *Larix*)

**Gomphus clavatus* (Pers.) Gray; RL-E, PaP; LR: [S6] (as *Nevrophyllum clavatum* (Pers.) Pat.), [S4,S152].

*♦ *Guepiniopsis buccina* (Pers.) L.L. Kenn. (Fig. S22); RL-E; LR: [S6] (as *G. torta* (Fr.) Pat.), [S4,S5]. PP: S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne (by the bridge over Wołosaty stream); VI; mixed forest; *Corylus* branch. UP: S from Zatwarnica (Hylaty valley, Izwir), Muczne 2 km SW (Jamniczna), Pszczeliny 1 km W (SE slope of Magura

Stuposiańska Mt), Bereżki 2 km NW, Cisna; VIII-IX; beech forest, fir-beech forest; *Corylus* branch, *Fagus* branch.



Fig. S22. Basidiomata of *Guepiniopsis buccina* (Pers.) L.L. Kenn. from the Bieszczady Mts (Sep 07, 2011). Photography by K. Kujawa.

*♦ *Gymnopilus bellulus* (Peck) Murrill; LR: [S7] (as *G. microsporus* (Singer) Singer), [S1].
PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Ustrzyki Górne 3.5 km SW (Czuryłowo), Beniowa (Szczob); VIII; beech forest, fir-beech forest; trunk, *Picea* log.
UP: Wetlina (E slope of Jawornik Mt), S from Zatwarnica (Hylaty valley, Izwir), Muczne 2 km SW (Jamniczna); VIII-X; beech forest, fir-beech forest; wood, *Abies* log.

!#*Gymnopilus josserandii* Antonín; NChL; UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Abies* trunk. Notes: Basidiomata small, caps up to 3 cm in diameter, convex, fibrillose, rusty brown, or dark brown with reddish tint. Stipe cylindrical, 2–3 cm long, concolorous with pileus. Lamellae rather distant, adnate, with a tooth, orange yellow, becoming rusty yellow with age, with concolorous edge. Basidia 4-spored. Spores 4–6 × 3–4.5 μm, rusty brown, subglobose to broadly ellipsoid, thick-walled, verrucose, without suprahillar depression. Cheilocystidia tibiiform with long neck, with brown walls and content. Pleurocystidia absent. Pileipellis a cutis, with encrusting and membranous pigment, terminal elements rarely inflated. Stipitipellis a cutis with tibiiform caulocystidia or fusoid cystidioid ends. Clamps present. Specimens seen: 16.08.2010, leg. & det. T. Ślusarczyk, fungarium no. 18/TŚ/BdPN/16082010.

*♦ *Gymnopilus penetrans* (Fr.) Murrill; LR: [S1,S6]. PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest; trunk. UP: Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Wetlina (Górna Solinka valley); VIII-X; beech forest, fir-beech forest; soil, wood, ?*Abies* trunk, *Abies* branch.

#*♦ *Gymnopilus sapineus* (Fr.) Maire s. Kühner & Romagnesi, Moser, Ludwig, Breitenbach & Kränzlin, Horak, non Fries 1821, Høiland 1990; UP: Beniowa (Szczob); VIII; fir-beech forest; *Picea* log.

**Gymnopus androsaceus* (L.) J.L. Mata & R.H.Petersen; LR: [S6,S7,S9] (as *Marasmius androsaceus* (L.) Fr.), [S1,S12] (as *Setulipes androsaceus* (L.) Antonín). PP: S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne (by the bridge over Wołosaty stream), Dźwiniacz Bog; bog, roadside, mixed forest; litter. UP: Lutowiska 2.6 km SW, Lutowiska (nature trail), Bereżki 1.5 km SE (S slope of Kiczera Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VII-IX; fir-beech forest, mixed forest, spruce forest, fir forest; litter.

*♦ *Gymnopus aquosus* (Bull.) Antonín & Noordel.; LR: [S1]. PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Suche Rzeki (E slope of Maguryczy Mt), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Rzeka valley), Nasiczne (E slope of Magura Nasiczańska Mt), Wetlina Górna (BdNP camping place), Berehy Górne, Wetlina (Górna Solinka valley, Mirki), Bereżki 2 km NW, Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki), near Dźwiniacz Górny (Dźwiniacz bog), N slope of Połonina Wetlińska Mt; V-VI; beech forest, deciduous forest, fir-beech forest, bog margin, mixed forest, meadow, spruce forest, bog; litter, soil, rotten wood, *Sphagnum*. UP: Beniowa 6 km S, VIII; beech forest; soil.

*♦ *Gymnopus confluens* (Pers.) Antonín, Halling & Noordel.; LR: [S5,S7,S9] (as *Collybia confluens* (Pers.) Quél. and *C. ingrata* (Schum.) Quél.), [S1]. PP: Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate (Polaniec valley); VIII-X; beech forest, spruce-beech forest; litter, soil. UP: Lutowiska, Lutowiska 6.4 km W, Lutowiska (Filówka spring), Beniowa 6 km S, Wołosate 1 km S, Pszczeliny-Widełki (1 km S from forester's lodge), SW from Zatwarnica (Hulski valley), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km SE (NE slope of Kiczera Mt), Muczne 2 km SW (Jamniczna), Bereżki 1 km W, Near Bereżki (NE slope of Kiczera Bereżczańska Mt); VII-IX; roadside, beech forest, mixed forest, deciduous forest, fir-beech forest, spruce forest; litter, soil.

*♦ *Gymnopus dryophilus* (Bull.) Murrill; LR: [S5,S7,S9] (as *Collybia dryophila* (Bull.) Quél.), [S1]. PP: Wołosate (Łuhy); VII; beech forest; *Fagus* log. UP: Suche Rzeki; VI; beech forest; litter.

#*Gymnopus fuscopurpureus* (Pers.) Antonín, Halling & Noordel.; UP: Near Bereżki (NE slope of Kiczera Bereżczańska Mt); VIII; mixed forest; soil.

*♦ *Gymnopus hariolorum* (Bull.) Antonín, Halling & Noordel.; LR: [S1].

*♦ *Gymnopus peronatus* (Bolton) Gray; LR: [S5,S6,S7,S9] (as *Collybia peronata* (Bolton) Singer), [S1]. PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, Sołyunki

Forest), Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Bereżki (Kiczera), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate (Połaniec valley), Beniowa (Szczob); VIII-X; beech forest, fir-beech forest, spruce-beech forest; litter, soil. **UP:** Cisna (by the tourist trail to Okrąglik Mt), Lutowiska 2.6 km SW, Lutowiska (nature trail), Beniowa 6 km S, Bereżki 1.5 km SE (S slope of Kiczera Mt), Rozsypaniec Mt 1 km SW, Stuposiany 2 km SW (S slope of Prypiczek Mt), Near Bereżki (NE slope of Kiczera Bereźczańska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 1 km W; VII-IX; beech forest, fir forest, fir-beech forest, mixed forest, deciduous forest; litter, soil.

*♦ *Gyrodon lividus* (Bull.) P. Karst.; **RL-R; LR:** [S4,S7,S9]. **UP:** Hulskie NR 2 km W (abandoned quarry); VIII; mixed shrubs; soil.

#*♦ *Gyroporus cyanescens* (Bull.) Quéf.; **RL-R; PP:** Wetlina Górna (BdNP camping place); VIII; beech forest; soil. **UP:** Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦ *Hapalopilus nidulans* (Fr.) P. Karst.; **LR:** [S5,S9]. **UP:** W from Lutowiska; VII; mixed forest; wood.

*♦ *Hebeloma crustuliniforme* (Bull.) Quéf. s.l.; **LR:** [S7]. **PP:** Berehy Górne, Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; overgrowing meadow, spruce brushwood; soil. **UP:** Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

Hebeloma helodes* J. Favre; **LR: [S1]. **UP:** Muczne 1 km SW (NE slope of Bukowe Berdo Mt); VIII; mixed shrubs; soil.

*♦ *Hebeloma pusillum* J.E. Lange; **RL-R; LR:** [S1,S7]. **PP:** Wetlina (Górna Solinka valley, Sołynki Forest); X; mixed brushwood; soil.

*♦ *Hebeloma radicosum* (Bull.) Ricken; **RL-I; LR:** [S4]. **UP:** Muczne (NE slope of Kudriawyński Wierch Mt); X; fir-beech forest; soil.

#*◆*Hebeloma sacchariolens* Quél.; PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; roadside (under willows); soil. **UP:** Pszczeliny 2 km W (SE slope of Kosowiec Mt); VIII; fir-beech forest; soil.

#Hebeloma velutipes* Bruchet; NChL; UP:** Muczne 2 km SW (Jamniczna); VIII; roadside (under fir, spruce and beech); soil. **Notes:** In Poland known also from Izera Mts and Izerskie Foothills [S33].

#Hemimycena angustispora* (P.D. Orton) Singer; UP:** NE slope of Wielka Rawka Mt; VIII; fir-beech forest (marshy place); *Fagus* litter. **UP:** Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; fir-beech forest, mixed shrubs; litter. **Notes:** Species also known from Puszcza Niepołomska forest [S153].

****Hemimycena crispula* (Quél.) Singer; NChL; LR:** [S1]. **Notes:** In Poland known only from the Bieszczady Mts.

****Hemimycena delectabilis* (Peck) Singer s. auct. Eur.; RL-V; LR:** [S9] (as *Delicatula delicatibilis* (Peck) Kühner & Romagn.).

***◆*Hemimycena gracilis* (Quél.) Singer; LR:** [S4]. **PP:** W from Bereżki; VIII; spruce forest; litter. **UP:** Lutowiska, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VII-VIII; fir-beech forest, roadside; litter.

#*◆*Hemimycena pseudocrispula* (Kühner) Singer; PP: W from Bereżki; VIII; shrubs by the stream; *Petasites* stem.

***◆*Hericium alpestre* Pers. (Fig. S23 & S24); RL-E, PaP; LR:** [S7], [S1,S4,S154] (as *H. flagellum* (Scop.) Pers.). **PP:** Beniowa (Szczob); VIII; fir-beech forest; *Abies* log. **UP:** Smerek 3 km S, Widełki forester's lodge 1.5 km S, Zatwarnica 3 km S (Hriadnik), SW from Zatwarnica (Hulski valley), Wetlina (Górna Solinka valley), Near Bereżki (NE slope of Kiczera Bereźczańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne (NE slope of Kudriawyński Wierch Mt), Dwerniczek 3 km N (S slope of Trohaniec Mt), Dwerniczek 1.5 km N (S slope of Trohaniec Mt), E from Dołżyca (Falowa Mt), SWW from Jabłonki (between Jaworne Mt and Kołonicze), N from Jabłonki (by the tourist trail to Woronikówki NR), Woronkówki NR, Rabe 2.5 km NW (NE slope of Chryszczata Mt), W from Rabe (S slope of Chryszczata Mt by the tourist trail); VIII-X; beech forest, fir-beech forest; *Abies* logs and trunks.

*♦ *Hericium coralloides* (Scop.) Pers.; RL-V, PaP, I++, SSI(B); LR: [S6,S13] (as *Dryodon coralloides* (Scop.) Quél.), [S9] (as *H. ramosum* (Bull.) Letell.), [S1,S4,S5,S7,S104]. PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Bereżki (Kiczera), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Wołosate 2.5 km E (Horbki), Wołosate 3.5 km E (Horbki); VIII-X; beech forest, fir-beech forest; *Fagus* trunks and logs. UP: Wołosate 1 km S, Zatwarnica 3 km S (Hriadnik), Ustrzyki Górne 1.5 km NW (by the tourist trail to Połonina Caryńska Mt), Rozsypaniec Mt 1 km SW, S from Wetlina (Borsuk pass), S from Wetlina (E slope of Jawornik Mt), NNE from Jaworzec (NE slope of Żołobina Mt), N from Dołżyca (Łopiennik Mt); VIII-IX; beech forest; *Fagus* log, *Acer pseudoplatanus* log.



Fig. S23. Basidiomata of *Hericium alpestre* Pers. from the Bieszczady Mts (Aug 17, 2009).
Photography by G. Domian.



Fig. S24. Basidiomata of *Hericium alpestre* Pers. from the Bieszczady Mts (Sep 04, 2009).
Photography by G. Domian.

*♦*Hericium erinaceum* (Bull.) Pers.; RL-E, SP, I++; LR: [S4,S5,S155].

#**Heterobasidion abietinum* Niemelä & Korhonen; UP: SW from Zatwarnica (Hulski valley); IX; beech forest; *Abies* trunk.

*♦*Heterobasidion annosum* (Fr.) Bref. s.l.; LR: [S9] (as *Fomitopsis annosa* (Fr.) P. Karst. and *F. annosa* (Fr.) P. Karst. f. *Polyporus macraulos* Rostk.), [S1,S5,S7,S14]. PP: S from Bereżki (Zwir valley – Polanki), Beniowa (Kiczera Beniowska); VIII; fir-beech forest; *Abies* trunk base. UP: Czarna 5 km S, Dwerniczek 2.5 km N; VIII; deciduous forest, beech forest; *Abies* log.

#**Heterobasidion annosum* (Fr.) Bref. s.str.; UP: Beniowa (cemetery); VII; tree clump; *Picea* trunk.

#*◆ *Hohenbuehelia auriscalpium* (Maire) Singer (Fig. S25); NChL, I++, SSI(C); PP: Wołosate (SW slope of Semków Wierszek Mt), Muczne (NE slope of Kudriawyński Wierch Mt); VIII, X; fir-beech forest; *Fagus* log, coniferous log. **Notes:** In Poland also known from Wigry NP [S156] and Ostrzycki Las NR [S144].



Fig. S25. Basidiomata of *Hohenbuehelia auriscalpium* (Maire) Singer from the Bieszczady Mts (Aug 22, 2009). Photography by G. Domian.

◆ *Hohenbuehelia grisea* (Peck) Singer; LR: [S12].

****Hohenbuehelia longipes* (Boud.) M.M. Moser; RL-E; LR: [S9]. Notes:** In Poland also known from vicinity of Toporów [S47].

***◆ *Hohenbuehelia mastrucata* (Fr.) Singer; SSI(B); LR: [S1].**

?*Hohenbuehelia reniformis* (G. Mey.) Singer; RL-E; LR: [S7]. Notes: Species differently interpreted by various authors, not mentioned in current monographs. According to Elborne

[S157] the original description by Meyer and Fries indicates on incorrect inclusion into genus *Hohenbuehelia*. The specimens from the Bieszczady Mts need revision.

#Hydnellum conrescens* (Pers.) Banker; RL-E, SP; UP:** Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil.

#Hydnum elliposporum* Ostrow & Beenken; NChL; UP:** Pszczeliny-Widełki (3 km SE from forester's lodge), Rozspaniec Mt 1 km SW, Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; beech forest, fir-beech forest; soil.

***♦*Hydnum repandum* L.; LR:** [S1,S5,S6,S7,S9,S13]. **PP:** Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, Sołynki Forest), Wetlina (Górna Solinka valley, Chyzyszcze), Wetlina (Górna Solinka valley, SW slope of Kiczera Mt), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Wołosate (N slope of Kiczera Mt, Za Potok); VIII-X; beech forest, fir-beech forest; soil. **UP:** Wetlina (Rowiń Forest), Lutowiska 1 km W, Czarna 5 km S, Ustrzyki Górne 5 km W (by the tourist trail to Wielka Rawka Mt), Bereżki 2 km NW, Muczne 2 km SW (Jamniczna); VIII-X; beech forest, deciduous forest, fir-beech forest; soil.

***♦*Hydnum rufescens* Pers.; LR:** [S1]. **PP:** Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, Sołynki Forest), S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne 3.5 km SW (Czuryłowo), Wołosate (SW slope of Semków Wierszek Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate (Łuhy), Wołosate 3.5 km E (Horbki), Beniowa (Szczob); VII-X; beech forest, fir-beech forest; soil. **UP:** Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Zatwarnica 3 km S (Hriadnik), near Pszczeliny (2 km S from Widełki forester's lodge)E, Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Beniowa 4 km S (Niedzwiedzi valley), Dwerniczek 3 km N, Lutowiska 7 km SW; VII-IX; beech forest, mixed forest, fir-beech forest; soil.

***♦*Hydropus atramentosus* (Kalchbr.) Kotl. & Pouzar; RL-E; LR:** [S1,S4]. **PP:** Beniowa (Szczob); VIII; beech forest; *Abies* log. **UP:** Lutowiska 2.6 km SW, S from Zatwarnica (Hylaty valley, Izwir); VII, IX; beech forest, fir forest; *Abies* log.

#Hydropus floccipes* (Fr.) Singer; NChL; UP:** Bereżki 2 km NW; VIII; fir-beech forest; *Fagus* trunk.



Fig. S26. Basidiomata of *Hydropus marginellus* (Pers.) Singer from the Bieszczady Mts (Aug 01,2018). Photography by K. Kujawa.

*♦*Hydropus marginellus* (Pers.) Singer (Fig. S26); RL-E; LR: [S1,S4]. PP: Nasiczne (Izwir), Beniowa (Szczob); VII-VIII; beech forest; *Fagus* log. UP: Cisna 3 km S (by the

tourist trail to Okrąglik Mt), Lutowiska 6.4 km W, Lutowiska 2.8 km SW, NE od rez. Hulskie, Dwerniczek 2 km N, between Tarnawa and Muczne (769 m asl pass), Czarna 5 km S, Zatwarnica 3 km S (Hriadnik), S from Zatwarnica (Hylaty valley, Izwir), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Near Bereżki (NE slope of Kiczera Bereżczańska Mt); VII-IX; beech forest, fir forest, fir-beech forest, deciduous forest; coniferous wood, *Abies* logs and trunk.

#Hydropus scabripes* (Murrill) Singer var. *quadrisporus* Bas; NChL; UP:** Wetlina (Górna Solinka valley); VII; mixed forest; wood remains. **Notes:** Species also known from the Białowieża Primeval Forest [S158], Izerskie Foothills and Kaczawskie Foothills [S33].

***♦*Hydropus subalpinus* (Höhn.) Singer; RL-R, SSI(C); LR:** [S1]. **PP:** SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (Rzeka valley), Suche Rzeki (Czerteżyk Łocentyków), Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley, Mirki), Wetlina (Lutowy valley), Bereżki 2 km NW, NE slope of Wielka Rawka Mt (Dołhe Pole), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki); VI; beech forest, fir-beech forest, mixed forest; *Fagus* log, wood. **UP:** Nasiczne, Stuposiany 2 km SW (S slope of Prypiczek Mt); VI-VIII; beech forest, fir-beech forest; wood.

***♦*Hygrocybe acutoconica* (Clem.) Singer (Fig. S27); RL-R; LR:** [S1] (as *H. persistens* (Britzelm.) Singer). **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); VII; spruce brushwood; soil. **UP:** Lutowiska (near Jewish cemetery), Muczne 2 km SW (Jamniczna); VIII; meadow, roadside; soil.



Fig. S27. Basidioma of *Hygrocybe acutoconica* (Clem.) Singer from the Bieszczady Mts (Aug 02, 2011). Photography by K. Kujawa.

*♦*Hygrocybe cantharellus* (Schwein.) Murrill; RL-V; LR: [S9], [S1] (as *H. lepida* Arnolds). PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; spruce brushwood; soil.

**Hygrocybe ceracea* (Wolfen) P. Kumm.; RL-Ex; LR: [S4]. PP: Wetlina (Górna Solinka valley, Sołynki Forest); X; spruce brushwood; soil.

*♦*Hygrocybe chlorophana* (Fr.) Wünsche; RL-R; LR: [S4,S6]. PP: Bereżki 2 km NW; VIII; beech forest (roadside); soil. UP: Berehy Górne; VI; meadow; soil.

?*Hygrocybe citrina* (Rea) J.E. Lange s. Gumińska; LR: [S9]. Notes: Species not mentioned in current monographs. According to Boertmann [S74] it is *nomen dubium* and is differently interpreted by various authors.

♦*Hygrocybe coccinea* (Schaeff.) P. Kumm.; RL-R; LR: [S7] (as *Hygrophorus coccineus* (Schaeff.) P. Karst.).

**Hygrocybe conica* (Schaeff.) P. Kumm. var. *chloroides* (Malençon) Bon; LR: [S6] (as *H. tristis* (Pers.) Bres.). Notes: In Poland also known from Pieniny NP [S159], Sejny [S160] and Kampinos NP [S35].

*♦*Hygrocybe conica* (Schaeff.) P. Kumm. var. *conica*; LR: [S1,S9]. PP: Wetlina (Górna Solinka valley, Sołynki Forest); X; spruce brushwood; soil. UP: Lutowiska (near Jewish cemetery), Muczne 2 km SW (Jamniczna); VIII; roadside; soil.

**Hygrocybe conica* (Schaeff.) P. Kumm. var. *conicopalustris* Arnolds; NChL; LR: [S1]. PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, Sołynki Forest), Beniowa (Bobrowiec valley); VIII, X; beech forest, spruce brushwood; soil. UP: Lutowiska (near Jewish cemetery), Wołosate; meadow, roadside; soil. Notes: In Poland also known from Białowieża Primeval Forest [S96], Biebrza NP [S111] and Izerskie Foothills [S33].

##*Hygrocybe glutinipes* (J.E. Lange) R. Haller Aar. var. *glutinipes*; NChL; UP: SW from Muczne (Jamniczna), Muczne 2 km SW (Jamniczna), NE slope of Wielka Rawka Mt; VIII; fir-beech forest; soil. Notes: In Poland also known from Las Złotowski forest [S161,S162,S163], Kaczawskie Foothills [S33] and Białowieża NP [S46].

#Hygrocybe insipida* (J.E. Lange) M.M. Moser; RL-E; UP:** Berezki (NE slope of Wierch Mt); VIII; pasture; soil.

****Hygrocybe intermedia* (Pass.) Fayod; RL-E; LR:** [S9,S164].

***♦*Hygrocybe miniata* (Fr.) P. Kumm. var. *miniata*; LR:** [S1,S4,S9]. **PP:** Wetlina (Górna Solinka valley, Smereczyna), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; beech forest, brushwood; soil. **UP:** Bukowe Berdo, Wołosate, Tarnica, IX-X; subalpine vegetation, meadow; soil.

***♦*Hygrocybe mucronella* (Fr.) P. Karst.; RL-E; LR:** [S9] (as *H. reai* Maire).

#Hygrocybe phaeococcinea* (Arnolds) Bon; NChL; UP:** Wołosate, Wetlina (Górna Solinka valley); X; meadow, roadside; soil. **Notes:** In Poland known also from Izera Mts [S33].

***♦*Hygrocybe pratensis* (Pers.) Murrill var. *pratensis*; RL-R; LR:** [S7] (as *Camarophyllus pratensis* (Pers.) P. Kumm.), [S4]. **PP:** Berehy Górne; X; mixed brushwood; soil.

***Hygrocybe quieta* (Kühner) Singer; RL-R; LR:** [S7] (as *H. obrussea* (Fr.) P. Karst.).

#Hygrocybe substrangulata* (P.D. Orton) P.D. Orton & Watling var. *substrangulata*; UP:** Wetlina (Górna Solinka valley); X; roadside; soil. **Notes:** In Poland also known from Babia Góra Mt [S141,S164,S165].

****Hygrocybe turunda* (Fr.) P. Karst.; LR:** [S1].

***♦*Hygrocybe virginea* (Wulfen.) P.D. Orton & Watling var. *virginea*; LR:** [S1,S4,S6,S7] (as *Camarophyllus virgineus* (Wulfen) P. Kumm.). **PP:** Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Berehy Górne; X; spruce brushwood, mixed brushwood; soil. **UP:** Wołosate; X; meadow; soil.

***♦*Hygrocybe vitellina* (Fr.) P. Karst.; RL-E; LR:** [S6].

#*♦*Hygrophorus chrysodon* (Batsch) Fr.; PP: Wetlina (Górna Solinka valley, Chyżyszcze); X; beech forest; soil. **UP:** Smerek 3 km S, Wetlina (Górna Solinka valley); X; roadside, beech forest; soil.

*****Hygrophorus discoxanthus* (Fr.) Rea; NChL; UP:** Bereżki 2 km NW; VIII; fir-beech forest; soil. **Notes:** In Poland species known hitherto also from Tatry NP [S124] and Przemyśl Foothills [S29].

***♦*Hygrophorus eburneus* (Bull.) Fr.; LR:** [S6,S7]. **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Wetlina (Górna Solinka valley, Chyzyszcze); X; fir-beech forest, spruce-beech forest; soil. **UP:** Wetlina (E slope of Jawornik Mt); X; beech forest; soil.

#*Hygrophorus lucorum* Kalchbr. var. *lucorum*; UP: Wola Michowa; X; larch forest; soil.

***♦*Hygrophorus olivaceoalbus* (Fr.) Fr.; LR:** [S6].

****♦*Hygrophorus penarius* Fr.; PP:** Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest; soil.

****♦*Hygrophorus pudorinus* (Fr.) Fr.; RL-R; UP:** Wetlina (Górna Solinka valley); X; fir-beech forest; soil.

*****Hygrophorus tephroleucus* (Pers.) Fr.; PP:** Wetlina (Lutowy valley), Wetlina (Górna Solinka valley), Wetlina (Górna Solinka valley, road to Dział Mt); X; beech forest, spruce forest, spruce-beech forest; soil. **UP:** Smerek 3 km S; X; roadside; soil.

*****Hygrophorus unicolor* Gröger; PP:** Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; beech forest; soil.

***♦*Hymenochaete carpatica* Pilát; LR:** [S4]. **PP:** Ustrzyki Górne 1 km W, Łopienka near Cisna (Łopienka valley), Ustrzyki Górne 3.5 km SW (Czuryłowo), Ustrzyki Górne 2 km SW (Wierch Mt), Ustrzyki Górne 2 km N (N slope of Kiczera Mt), SE from Bereżki (NW slope of Widełki Mt), Wetlina (Górna Solinka valley, Mohyłka), Wetlina (Górna Solinka valley); VI, VIII; beech forest, mixed forest, abandoned village; *Acer pseudoplatanus* bark. **UP:** Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), S from Zatwarnica (Hylaty valley), E slope of Połonina Wetlińska Mt, S from Wetlina (Paprotna Mt); VII, IX; beech forest, *Sorbo aucupariae-Aceretum pseudoplatani*; *Acer pseudoplatanus* bark.

***Hymenochaete cinnamomea* (Pers.) Bres.; RL-E; LR:** [S7].

*♦ *Hymenochaete cruenta* (Pers.) Donk (Fig. S28); RL-V; LR: [S7,S9] (as *H. mougeotii* (Fr.) Masee), [S4,S55,S166]. PP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Wetlina (Górna Solinka valley, Chyżyszcze); VI; fir-beech forest, beech forest; *Abies* branch. UP: N from Dołżyca (Łopiennik Mt); IX; beech forest; *Abies* branch.



Fig. S28. Basidiomata of *Hymenochaete cruenta* (Pers.) Donk from the Bieszczady Mts (Sep 02, 2009). Photography by G. Domian.

##♦ *Hymenochaete fuliginosa* (Pers.) Lév.; RL-E; PP: Tworylczyk valley; VI; beech forest, fir-beech forest; *Abies* log. UP: near Tarnawa Górna (3.5 km SW from Tarnawa bog); VIII; mixed forest; *Fagus* log.

**Hymenochaetopsis corrugata* (Fries) S.H. He & Jiao Yang; RL-E; LR: [S7,S9] (as *Hymenochaete corrugata* (Fr.) Lév.). UP: Bereżki 1.5 km SE (S slope of Kiczera Mt), IX; deciduous forest; *Corylus* branch.

*♦ *Hymenochaetopsis tabacina* (Sowerby) S.H. He & Jiao Yang; RL-R; LR: [S5,S6,S9] (as *Hymenochaete tabacina* (Sowerby) Lév.). PP: Wetlina Górna (BdNP camping place); VI; shrubs by the stream; *Salix* branch.

*♦ *Hymenopellis radicata* (Relhan) R.H. Petersen; LR: [S13] (as *Collybia radicata* (Rehl.) Quél.), [S5,S6,S7,S9] (as *Oudemansiella radicata* (Relhan) Singer), [S1,S167] (as *Xerula radicata* (Relhan) Dörfelt). PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, Chyzyszcze), SE from Bereżki (NW slope of Widełki Mt), Ustrzyki Górne 2 km N (N slope of Kiczera Mt), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (N slope of Kiczera Mt), Wołosate 3.5 km E (Horbki); VI-X; beech forest, fir-beech forest; soil, wood, *Fagus* trunk base. UP: NE boarder of Hulskie NR, Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; beech forest, fir-beech forest; wood, soil.

Hyphoderma albocremeum (Höhn. & Litsch.) J. Erikss. & Å. Strid; RL-V; LR: [S7] (as *Corticium albocremeum* Höhn. & Litsch.), [S168] (as *Conohypha albocrema* (Höhn. & Litsch.) Jülich). Notes: In Poland also known from Orawa-Nowy Targ basin [S168,S169,S170].

**Hyphoderma argillaceum* (Bres.) Donk; LR: [S5,S7].

**Hyphoderma litschaueri* (Burt) J. Erikss. & Å. Strid; LR: [S5] (as *Hyphodontia nivea* (Bres.) J. Erikss.), [S4]. Notes: In Poland also known from vicinity of Międzyrzec Podlaski [S171,S172] and Świętokrzyskie Mts [S77,S97].

Hyphoderma mutatum (Peck) Donk; LR: [S7].

**Hyphoderma praetermissum* (P. Karst.) J. Erikss. & Å. Strid; LR: [S5,S7] (as *H. tenue* (Pat.) Donk), [S1].

**Hyphoderma puberum* (Fr.) Wallr.; LR: [S5,S7] (as *Phlebia pubera* (Fr.) Sacc.), [S1].

**Hyphoderma roseocremeum* (Bres.) Donk; LR: [S6] (as *Gleocystidium roseocremeum* (Bres.) Brinkman).

*♦*Hyphoderma setigerum* (Fr.) Donk; LR: [S6] (as *Peniophora setigera* (Fr.) Bres.), [S7,S9].

**Hyphodontia abieticola* (Bourdot & Galzin) J. Erikss.; LR: [S9] (as *Odontia abieticola* Bourdot & Galzin), [S7].

Hyphodontia alienata (S. Lundell) J. Erikss.; LR: [S173].

Hyphodontia alutacea (Fr.) J. Erikss.; LR: [S7]

Hyphodontia alutaria (Burt) J. Erikss.; LR: [S7].

**Hyphodontia arguta* (Fr.) J. Erikss.; LR: [S9] (as *Odontia arguta* (Fr.) Quél.), [S5,S7].

**Hyphodontia aspera* (Fr.) J. Erikss.; LR: [S5,S7].

**Hyphodontia barba-jovis* (Bull.) J. Erikss.; LR: [S5,S7].

**Hyphodontia breviseta* (P. Karst.) J. Erikss.; LR: [S1,S7].

Hyphodontia crustosa (Pers.) J. Erikss.; LR: ?[S6] (as *Corticium subcostatum* (P. Karst.) Bourd. & Galz.), [S9] (as *Odontia crustosa* (Pers. ex Fr.) Quél.), [S7]. **Notes:** According to Wojewoda [S51] and Gierczyk et al. [S1], the record of *Corticium subcostatum* (P. Karst.) Bourdot & Galzin [S6] refers to *H. crustosa* (Pers.) J. Erikss., however MycoBank [S18] interpret it as a synonym of *Phlebia albida* H. Post. The revision of the specimens from Bieszczady Mts is needed.

##**Hyphodontia curvispora* J. Erikss. & Hjortstam; NChL; UP: Zatwarnica 3 km S (Hriadnik); IX; beech forest; wood. **Notes:** In Poland also known from Białowieża Primeval Forest [S174,S175].

*♦*Hyphodontia nesporii* (Bres.) J. Erikss. & Hjortstam; LR: [S1]. **Notes:** Mistakenly mentioned from the Bieszczady Mts by Wojewoda [S51] and Gierczyk et al. [S1] after Domański et al. [S5,S7,S9], because of wrong interpretation of names *Odontia papillosa* (Fr.) Bres. and *H. papillosa* (Fr.) J. Erikss. used by these authors. These data refer to *H. rimosissima* (Peck) Gilb. [S173].

Hyphodontia pallidula (Bress.) J. Erikss.; LR: [S7].

**Hyphodontia quercina* (Pers.) J. Erikss.; LR: [S6,S9] (as *Radulum quercinum* Fr.), [S5,S7].

**Hyphodontia rimosissima* (Peck) Gilb.; LR: [S9] (as *Odontia papillosa* (Fr.) Bres.), [S5,S7] (as *H. papillosa* (Fr.) J. Erikss.), [S173]. Notes: In Poland also known from Kampinos NP [S35] and Kaszuby LP [S176].

*♦*Hyphodontia sambuci* (Pers.) J. Erikss.; LR: [S9] (as *Corticium sambuci* (Pers.) Fr.), [S5]. PP: S from Bereżki (Zwir valley – Polanki); VI; mixed forest; *Sambucus nigra* branch.

Hyphodontia spathulata (Schrad.) Parmasto; LR: [S7] (as *H. arguta* (Fr.) J. Erikss. f. *spathulata* (Fr.) Wakefield apud Mill. & Boyle). UP: Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Abies* branch.

?*Hypholoma ambiguum* Lamoure ad int.; LR: [S177]. Notes: Species not mentioned in current monographs, probably *nomen dubium* [S105,S178].

*♦*Hypholoma capnoides* (Fr.) P. Kumm.; PP: Wetlina (Górna Solinka valley, Chyżyszcze); X; fir-beech forest; trunk. UP: Wola Michowa; X; beech forest; wood.

*♦*Hypholoma dispersum* Quél.; UP: Ustrzyki Górne 2.5 km W (NE slope of Wielka Rawka Mt); VIII; fir-beech forest; soil.

#*Hypholoma elongatum* (Pers.) Ricken; RL-R; UP: Kalnica; X; meadow; mosses.

*♦*Hypholoma fasciculare* (Huds.) P. Kumm. f. *fasciculare*; LR: [S6,S7,S9,S13] (as *Naematoloma fasciculare* (Huds.) P. Karst.), [S5], [S1,S12] (as *Psilocybe fascicularis* (Huds.) Noordel.). PP: W from Zatwarnica (Tworylczyk valley), Suche Rzeki (Rzeka valley), Wetlina (Górna Solinka valley), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate 3.5 km E (Horbki), Beniowa (Szczob); V-VI, VIII; beech forest, fir-beech forest, *Alnetum incanae*; *Fagus* logs and trunk, *Alnus incana* trunk. UP: Berehy Górne 1.5 km E, Pszczeliny-Widełki (3 km SE from forester's lodge), Wola Michowa, Lutowiska (Jewish cemetery), Beniowa 4.5 km S (Niedźwiedzi valley); VII-X; mixed forest, tree clump, beech forest; trunk, *Alnus incana* trunk base, *Fagus* log.

*♦*Hypholoma fasciculare* (Huds.) P. Kumm. var. *subviride* (Berk. & M.A. Curtis) Krieglst. (Fig. S29); LR: [S1] (as *Psilocybe fascicularis* (Huds.) Noordel. var. *pusilla* (J.E. Lange) Noordel. and *P. subviridis* (Berk. & M.A. Curtis) Sacc.). PP: Suche Rzeki (Czerteżyk

Łocentyków), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), NE slope of Wielka Rawka Mt (Dołhe Pole), Wołosate 3.5 km E (Horbki); VI, VIII; beech forest, mixed forest; *Fagus* log, wood. **UP:** Dwerniczek 1.5 km N, Czarna 5 km S, Nasiczne, near Pszczeliny (2 km S from Widelki forester's lodge), Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Stuposiany 2 km SW (S slope of Prypiczek Mt), Near Bereżki (NE slope of Kiczera Bereżecka Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widelki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 1 km W; VI-IX; beech forest, fir-beech forest, parking place; wood remains, *Fagus* trunk and branches.



Fig. S29. Basidiomata of *Hypholoma fasciculare* (Huds.) P. Kumm. var. *subviride* (Berk. & M.A. Curtis) Krieglst. from the Bieszczady Mts (Sep 03, 2011). Photography by K. Kujawa.

*♦*Hypholoma lateritium* (Schaeff.) P. Kumm.; **LR:** [S6,S7,S13] (as *Naematoloma sublateritium* (Fr.) P. Karst.), [S1] (as *Psilocybe lateritia* (Schaeff.) Noordel.), [S9,S12] (as *H. sublateritium* (Fr.) Quél.). **PP:** Wetlina Górna (BdNP camping place); X; meadow; log. **UP:** Ustrzyki Górne 2 km W (by the tourist trail to Wielka Rawka Mt), Pszczeliny 1 km W (SE

slope of Magura Stuposiańska Mt), Bereżki 2 km NW, Muczne (NE slope of Kudriawyński Wierch Mt); VIII-X; beech forest, fir-beech forest; wood, *Fagus* logs and trunk.

!#**Hypholoma olivaceotinctum* (Kauffman) Pomerl.; NChL; UP: Wołosate; X; meadow; herbaceous plant remains. **Notes:** Cap 2–3.5 cm, convex, hygrophanous, striate, brown to olivaceous brown, with orange tint at centre. Stipe cylindrical, slender, 4–11 cm, ocher. Lamellae adnate, chocolate brown to violaceous brown, with white edge. Veil absent. Basidia 4-spored. Spores ellipsoid, with germ pore, violaceous brown, 9–12 × 5–6 µm. Cheiloleptocystidia lageniform to utriform. Cheilochrysocystidia absent. Pleurochrysocystidia clavate with mucronate apex, with yellow, refractive content in NH₃aq. Pileipellis an (ixo)cutis, pigment intracellular and incrusting. Stipitipellis a cutis. Caulocystidia lageniform. Clamps present. Specimens seen: 07.10.2010, leg. T. Pachlewski, det. B. Gierczyk, fungarium no. BdPN-01463.

*♦*Hypholoma radicosum* J.E. Lange; LR: [S1] (as *Psilocybe radicata* (J.E. Lange) Noordel.). UP: Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; *Abies* trunk.

Hypochnicium analogum* (Bourdot & Galzin) J. Erikss.; LR: [S5,S7]. **Notes: In Poland known only from the Bieszczady Mts.

Hypochnicium geogenium (Bres.) J. Erikss.; LR: [S7].

*♦*Hypsizygus ulmarius* (Bull.) Redhead; RL-V; LR: [S6] (as *Lyophyllum ulmarium* (Bull.) Kühner), [S9] (as *Lyophyllum uhnorium* (Bull.) Kühner), [S4,S179]. UP: Wołosate 1 km S, Wyżniańska Pass 2 km SW (by the tourist trail to Mała Rawka Mt), Szczob (Jawornik range), Rozspaniec Mt 1 km SW; IX; beech forest; *Fagus* trunk.

#*Infundibulicybe catinus* (Fr.) Harmaja; UP: Dwerniczek 3 km N; VIII; beech forest; soil. **Notes:** In Poland also known from Wielkopolski NP [S180] and Puszcza Zielonka Forest [S181].

*♦*Infundibulicybe costata* (Kühner & Romagn.) Harmaja; LR: [S1] (as *Clitocybe costata* Kühner & Romagn.). PP: Terebowiec valley; VII; beech forest; litter. UP: Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 1 km W, Bereżki 2 km NW; VIII; beech forest, fir-beech forest; litter.

*♦*Infundibulicybe gibba* Harmaja; LR: [S6,S7,S9,S13] (as *Clitocybe infundibuliformis* (Schaeff.) Quél.), [S1,S5] (as *C. gibba* (Pers.) P. Kumm.). UP: Lutowiska 6.4 km W, Lutowiska (nature trail), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Muczne 2 km SW (Jamniczna); VII-VIII; beech forest, fir-beech forest; soil.

*♦*Infundibulicybe squamulosa* (Pers.) Harmaja; LR: [S1] (as *Clitocybe squamulosa* (Pers.) P. Kumm.). PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); VI; spruce brushwood; soil.

#*Inocybe acuta* Boud.; RL-R; UP: Lutowiska (near Jewish cemetery); VIII; roadside (under willow); soil.

##*Inocybe amethystina* Kuypere; NChL; UP: Wetlina (Górna Solinka valley); X; beech forest; soil. Notes: In Poland known also from Białowieża NP [S46].

**Inocybe assimilata* Britzelm.; LR: [S1,S9] (as *I. umbrina* Bres.). PP: N slope of Połonina Wetlińska Mt, W from Zatwarnica (Tworylczyk valley), Wetlina (Górna Solinka valley, Chyżyszcze); VI, X; beech forest, spruce brushwood; soil. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Zatwarnica 2 km S (Hylaty valley), Muczne 2 km SW (Jamniczna); VIII; beech forest, fir-beech forest; soil.

*♦*Inocybe asterospora* Quél.; LR: [S1]. PP: Ustrzyki Górne 3.5 km SW (Czuryłowo), Beniowa (Szczob); VIII; beech forest, fir-beech forest; soil.

♦*Inocybe auricoma* (Batsch) Sacc.; LR: [S7]. UP: Lutowiska; VII; roadside; soil.

##*Inocybe bongardii* (Weinm.) Quél. var *pisciodora* (Donaldini & Rioussset) Kuypere; NChL; UP: Wetlina (Górna Solinka valley), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil. Notes: In Poland also known from Białowieża Primeval Forest [S24] and Kampinos NP [S35].

*♦*Inocybe calida* Velen.; LR: [S1]. UP: SE from Bereżki (NW slope of Widełki Mt), S from Zatwarnica (Hylaty valley, Izwir); VIII-IX; beech forest; soil.

**Inocybe calospora* Quél.; RL-V; LR: [S1,S182]. PP: Wołosate (N slope of Kiczera Manzowa Mt); VIII; beech forest; soil. UP: Wołosate; IX; *Alnetum incanae*; soil.

#*♦*Inocybe cervicolor* (Pers.) Quél.; UP: Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil.

#Inocybe cincinnata* (Fr.) Quél. var. *cincinnata*; UP:** Zatwarnica 2 km S (Hylaty valley); VIII; beech forest; soil.

#*Inocybe cincinnata* (Fr.) Quél. var. *major* (S. Petersen) Kuyper; NChL; UP: Lutowiska (near BdNP education center); VII; lawn; soil. **Notes:** In Poland also known from Gorce Mts [S183], Izera Mts, Izerskie Foothills [S33] and Białowieża Primeval Forest [S46].

***♦*Inocybe cookei* Bres.; LR:** [S1]. **UP:** Lutowiska (Filówka spring), Lutowiska (near BdNP education center), Dwerniczek 1.5 km N, Zatwarnica 2 km S (Hylaty valley), NE slope of Wielka Rawka Mt; VII-VIII; lawn, beech forest, fir-beech forest; soil.

***♦*Inocybe corydalina* Quél. var. *corydalina*; LR:** [S1]. **PP:** Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil. **UP:** Pszczeliny-Widełki (1 km S from forester's lodge); IX; beech forest; soil.

#*Inocybe curvipes* P. Karst.; UP: Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VIII; forest margin (under larch); soil.

****Inocybe dulcamara* (Alb. & Schwein.) P. Kumm.; LR:** [S1]. **UP:** Muczne 2 km SW (Jamniczna); VIII; spruce forest; soil.

****Inocybe flocculosa* (Berk.) Sacc.; LR:** [S9] (as *I. gausapata* Kühner f. *flocculosa* ss. J.E. Lange). **UP:** Hylaty valley, Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; beech forest, mixed shrubs; soil.

#*♦*Inocybe fraudans* (Britzelm.) Sacc. var. *fraudans*; PP: vicinity of Muczne (Jamniczna); VIII; fir-beech forest; soil.

****Inocybe fuscidula* Velen. var. *fuscidula*; LR:** [S1]. **PP:** Bukowiec (near Eastern Orthodox church); park (under willow and spruce); soil.

***♦*Inocybe geophylla* (Fr.) P. Kumm. var. *geophylla*; LR:** [S1]. **PP:** Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Wetlina (Lutowy valley); X; spruce-larch forest, fir-beech forest; soil. **UP:** Wołosate (horse stud), S from Zatwarnica (Hylaty valley, Izwir), Wola Michowa, Lutowiska 2.7 km SW, SW from Zatwarnica (Hulski valley),

Pszczeliny-Widełki 1.5 km SE (NE slope of Kiczera Mt); VII-X; beech forest, fir forest, fir-beech forest, shrubs on the horse stud site, larch forest; soil.

#Inocybe grammata* Quéél. & Le Bret.; RL-V; PP:** Beniowa (Szczob); VIII; fir-beech forest; soil. **UP:** Lutowiska 1.5 km SE; VIII; deciduous forest; soil.

***♦*Inocybe griseolilacina* J.E. Lange; RL-R; LR:** [S1].

****Inocybe haemacta* (Berk. & Cooke) Sacc.; NChL; LR:** [S184]. **PP:** W from Bereżki; VIII; hazel-maple shrubs; soil. **Notes:** In Poland reported also from Przemyśl Foothills [S29].

#*♦*Inocybe hirtella* Bres.; PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; spruce brushwood; soil.

#Inocybe hystrix* (Fr.) P. Karst.; RL-V; PP:** NE slope of Wielka Rawka Mt (Dołhe Pole); VIII; fir-beech forest; soil. **UP:** Lutowiska (Filówka spring), Dwerniczek 3.5 km N, Zatwarnica 2 km S (Hylaty valley), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Terebowiec valley. Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VIII; beech forest, fir-beech forest; soil.

#*Inocybe jacobi* Kühner; RL-E; UP: Dwerniczek 1 km N; VIII; roadside; soil.

***♦*Inocybe lacera* (Fr.) P. Kumm. var. *lacera*; LR:** [S7,S9]. **PP:** Beniowa; VIII; fir-beech forest; soil. **UP:** Beniowa 2.5 km S, Dwerniczek 3.5 km N, Zatwarnica 2 km S (Hylaty valley); VIII; beech forest, spruce forest; soil.

#*Inocybe langei* R. Heim; UP: Lutowiska; VII; roadside; soil.

****Inocybe lanuginosa* (Bull.) P. Kumm.; LR:** [S9].

#*♦*Inocybe leptophylla* G.F. Atk.; PP: vicinity of Muczne (Jamniczna), Wetlina (Górna Solinka valley, Chyżyszcze), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII-X; fir-beech forest; wood, soil.

***♦*Inocybe lilacina* (Peck) Kauffman; LR:** [S1] (as *I. geophylla* (Fr.) P. Kumm. var. *lilacina* (Peck) Gillet). **UP:** Zatwarnica, Wola Michowa, Wołosate 1 km S; VI-X; lawn, tree clump, beech forest, soil.

#♦*Inocybe maculata* Boud.; UP: Lutowiska; VII; roadside; soil.

#Inocybe microspora* J.E. Lange; PP:** W from Bereżki; VIII; spruce forest; soil. **UP:** Wołosate (horse stud); VII; shrubs on the horse stud site; soil.

***♦*Inocybe mixtilis* (Britzelm.) Sacc.; LR:** [S1,S5]. **PP:** Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, Chyżyszcze); X; fir-beech forest, beech forest; soil. **UP:** Wetlina (Górna Solinka valley), Zatwarnica 2 km S (Hylaty valley), Ustrzyki Górne 4 km W (by the tourist trail to Wielka Rawka Mt), S from Zatwarnica (Hylaty valley, Izwir), between Muczne and Tarnawa (769 m asl pass), Pszczeliny 2 km W (SE slope of Kosowiec Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VII-IX; beech forest, fir-beech forest; soil.

***♦*Inocybe napipes* J.E. Lange; LR:** [S4]. **PP:** near Dźwiniacz Górny (Dźwiniacz bog), NE slope of Wielka Rawka Mt, Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Lutowy valley); VIII, X; bog (under spruce), mixed forest, fir-beech forest, beech forest; soil. **UP:** W from Pszczeliny, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Lutowska (nature trail), Bereżki 2 km NW, Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest, mixed forest, mixed shrubs; soil.

#*Inocybe obsoleta* Romagn.; UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil. **Notes:** In Poland also known from Lubelszczyzna region [S172] and Przemyśl Foothills [S29].

#*Inocybe ochroalba* Bruylants; NChL; UP: Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt); VIII; mixed shrubs; soil.

***♦*Inocybe petiginosa* (Fr.) Gillet; LR:** [S1,S9]. **PP:** SE from Bereżki (NW slope of Widełki Mt), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate 3.5 km E (Horbki), vicinity of Muczne (Jamniczna), Beniowa (Szczob); VIII; beech forest, fir-beech forest; soil. **UP:** Berehy Górne 1.5 km E, Rozsypaniec Mt 1 km SW, Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW, NE slope of Wielka Rawka Mt; VII-IX; beech forest, fir-beech forest; soil, *Fagus* log.

****Inocybe phaeodisca* Kühner; RL-V; LR:** [S1].

#Inocybe posterula* (Britzelm.) Sacc.; PP:** S slope of Bukowe Berdo Mt; sycamore-fir forest; soil.

**Inocybe praetervisa* Quél.; LR: [S9]. UP: Pszczeliny-Widełki (1 km S from forester's lodge); IX; beech forest; soil.

#*Inocybe pusio* P. Karst.; UP: Lutowiska; VII; roadside; soil.

Inocybe putilla Bres.; RL-E; LR: [S7].

***Inocybe queletii* Konrad; NChL; UP: Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt); IX; beech forest; soil. Notes: In Poland known also from the Przemyśl Foothills [S29].

**Inocybe quietiodor* Bon; LR: [S1]. Notes: In Poland also known from Niepołomicka Forest [S185], Izerskie Foothills [S33] and Białowieża Primeval Forest [S46].

*♦*Inocybe rimosa* (Bull.) P. Kumm.; LR: [S6,S7,S9] (as *I. fastigiata* (Schaeff.) Quél.). PP: Połonina Caryńska Mt (Waprewnik), Muczne 2 km SW (Jamniczna); VIII; beech forest, fir-beech forest; soil. UP: Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest, mixed forest; soil.

*♦*Inocybe salicis* Kühner; LR: [S9] (as *I. xanthomelas* Kühner).

***Inocybe sambucina* (Fr.) Quél.; UP: Hulski valley; IX; beech forest; soil.

***Inocybe soluta* Velen.; NChL; PP: Beniowa (Szczob); VIII; fir-beech forest; soil. Notes: In Poland also known from Babia Góra NP [S141], Kampinos NP [S35], Karkonosze Mts and Izerskie Foothills [S33].

**Inocybe splendens* R. Heim var. *splendens*; LR: [S7]. UP: Wetlina (Górna Solinka valley); X; beech forest; soil.

***Inocybe tricolor* Kühner; NChL; PP: SE from Bereżki (NW slope of Widełki Mt); VIII; beech forest; soil. Notes: Species known in Poland hitherto also from Tatry NP [S124].

#♦*Inocybe whitei* (Berk. & Broome) Sacc.; UP: Maniowa; X; beech forest; soil.

?♦*Inonotus cuticularis* (Bull.) P. Karst.; RL-R, I++, SSI(B); LR: [S51]. Notes: Species incorrectly mentioned from Bieszczady by Wojewoda [S51] with reference to "Domański S. & al 1967; 1973". In both publications by Domański et al. from 1967 [S7,S58] as well as in monograph published in 1973 [S186] there is no information about the occurrence of this species in Bieszczady Mts. Also, in prof. Domański's herbarium such specimens are not preserved.

*♦ *Inonotus nodulosus* (Fr.) P. Karst.; SSI(C); LR: [S6,S7,S9] (as *I. radiatus* (Sowerby) P. Karst. var. *nodulosus* (Fr.) Pilát), [S1,S4,S12]. PP: Beniowa (Szczob); VIII; beech forest; *Fagus* log. UP: W from Rabe (S slope of Chryszczata Mt by the tourist trail); IX; beech forest; *Fagus* branch.

##♦ *Inonotus obliquus* (Ach. ex Pers.) Pilát; RL-R, PaP; PP: Suche Rzeki (Czerteżyk Łocentyków); VI; beech forest; *Fagus* log. UP: Muczne (NE slope of Kudriawyński Wierch Mt); X; fir-beech forest; *Fagus* log.

*♦ *Inonotus radiatus* (Sowerby.) P. Karst.; LR: [S1,S4,S5,S6,S7,S9,S12].

*♦ *Irpex lacteus* (Fr.) Fr.; RL-R; LR: [S6] (as *Trametes lactea* (Fr.) Pilát), [S1,S5,S12,S187].

*♦ *Ischnoderma benzoinum* (Wahlenb.) P. Karst.; RL-V; LR: [S7] (as *I. resinosum* (Fr.) P. Karst. – specimens collected on *Abies* logs), [S1]. PP: Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Rzeka valley), S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Beniowa (Szczob), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec); VI-IX; beech forest, fir-beech forest; *Abies* log. UP: Czarna 5 km S, Dwerniczek 3.5 km N, Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Ustrzyki Górne 5 km W (by the tourist trail to Wielka Rawka Mt), Zatwarnica 3 km S (Hriadnik), SW from Zatwarnica (Hulski valley), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne (NE slope of Kudriawyński Wierch Mt), Hulskie NR; VIII-X; deciduous forest, fir-beech forest, beech forest; coniferous log, *Abies* logs and trunks.

*♦ *Ischnoderma resinosum* (Fr.) P. Karst.; RL-V, I++, SSI(B); LR: [S6] (as *I. resinosum* (Fr.) P. Karst. and *I. resinosum* (Fr.) P. Karst. f. *fuscum* (Pers.) Pilát), [S1,S4,S5,S7], [S64] (as *Polyporus resinosus* and *Placoderma resinosum* Schred). PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Ustrzyki Górne 3.5 km SW (Czuryłowo), Wołosate (N slope of Kiczera Mt); VIII, X; beech forest, fir-beech forest; *Fagus* log. UP: Wołosate 4 km E (Hawry Forest), Wołosate 2 km NE (N slope of Hudów Wierszek Mt), Ustrzyki Górne 1.5 km NW (by the tourist trail to Połonina Caryńska Mt), S from Wetlina (Czerteż Mt), NE from Kalinica (by the tourist trail between Wysokie Berdo Mt and Krysowa Mt), Jaworzec 0.5 km W (E slope of Kiczera Mt), SWW from Jabłonki (near Jaworne Mt); VIII-IX; beech forest; *Fagus* trunk and logs. Notes:

According to MycoBank database it is conspecific with *Ischnoderma benzoinum* (Wahlenb.) P. Karst [S105].

**Junghuhnia collabens* (Fr.) Ryvarden; RL-E; LR: [S5] (as *Chaetoporus collabens* (Fr.) Pouzar).

*♦*Junghuhnia nitida* (Pers.) Ryvarden; RL-R; LR: [S9] (as *Chaetoporus euporus* (P. Karst.) Bondartsev & Singer), [S5] (as *Ch. nitidus* (Pers.) Donk).

**Kavinia himantia* (Schwein.) J. Erikss. (Fig. S30); RL-E, SSI(B); LR: [S1,S4,S5]. UP: Wołosate; IX; *Alnetum incanae*; *Salix* log.



Fig. S30. Basidiomata of *Kavinia himantia* (Schwein.) J. Erikss. from the Bieszczady Mts (Oct 02, 2011). Photography by A. Szczepkowski.

**Kuehneromyces lignicola* (Peck) Redhead; LR: [S4].

*♦ *Kuehneromyces mutabilis* (Schaeff.) Singer & A.H. Sm.; LR: [S1,S4,S6,S13] (as *Pholiota mutabilis* (Schff.) Quél.), [S5,S7,S9,S12,S45]. PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Rzeka valley), Suche Rzeki (Czerteżyk Łocentyków), SE slope of Połonina Caryńska Mt, Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (N slope of Kiczera Manzowa Mt); beech forest, fir-beech forest, *Alnetum incanae*, deciduous forest; wood, *Salix fragilis* trunk, *Salix caprea* trunk, *Fagus* log. UP: Zatwarnica, Berehy Górne 1.5 km E, Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), Pszczeliny-Widełki (1 km S from forester's lodge), Near Bereżki (NE slope of Kiczera Bereżczańska Mt), NE slope of Wielka Rawka Mt; VII-IX; beech forest, fir-beech forest; *Fagus* trunk, wood.

!#* *Laccaria altaica* Singer; NChL; PP: Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; roadside, brushwood; soil. Notes: Basidiomata small, cap up to 2 cm in diameter, convex to applanate, pinkish brown, rose brown or reddish brown, hygrophanous, striate at margin. Stipe cylindrical, concolorous or slightly paler than cap, up to 5 cm high. Lamellae adnate to subdecurrent, pinkish, distant. Basidia 2-spored. Spores ovoid, tapering towards base, hyaline, with dense spines up to 1 µm high, 11–15.5 × 10–12 µm. Cystidia absent. Pilei- and stipitipellis a cutis. Clamps present. Specimens seen: 07.10.2009, leg. & det. A. Kujawa, fungarium no. BdPN-01237; 04.10.2010, leg. & det. A. Kujawa, fungarium no. BdPN-01626.

*♦ *Laccaria amethystea* Cooke; LR: [S1,S4,S5,S6,S9,S12,S13,S14]. PP: Wetlina (Górna Solinka valley, SW slope of Kiczera Mt), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Górna Solinka valley, Sołyński Forest), Wetlina (Lutowy valley), S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate (Polaniec valley), Wołosate 3.5 km E (Horbki), Beniowa (Szczob), Beniowa (Kiczera Beniowska); VIII-X; beech forest, fir-beech forest; soil. UP: Wola Michowa, Dwerniczek 1 km N, Ustrzyki Górne 2 km W (by the tourist trail to Wielka Rawka Mt), Dwernik 1.5 km NE, Czarna 5 km S, Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Widełki 1 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII-X; deciduous forest, mixed forest, beech forest, fir-beech forest; soil.

**Laccaria laccata* (Scop.) Cooke var. *laccata*; LR: [S1,S5,S6,S7,S13]. PP: Beniowa (Szczob), Beniowa (Kiczera Beniowska); VIII; fir-beech forest; soil. UP: Lutowiska 2 km SW, Tarnawa Bog 1 km SW, near Tarnawa Górna (3.5 km SW from Tarnawa bog), Wołosate 4 km E (Hawry Forest), Pszczeliny-Widełki (1 km S from forester's lodge), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Berezki 2 km NW; VII-IX; spruce forest, mixed forest, beech forest, fir-beech forest; soil.

*♦*Laccaria laccata* (Scop.) Cooke var. *pallidifolia* (Peck) Peck; NChL; LR: [S1]. PP: Wołosate (N slope of Kiczera Manzowa Mt); VIII; beech forest; soil. UP: NE slope of Wielka Rawka Mt, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil. Notes: Variety often not distinguished from typical one.

*♦*Laccaria tortilis* (Bolton) Cooke; LR: [S1]. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

#*Lachnella villosa* (Pers.) Gillet; UP: Dwerniczek 1 km N; VIII; roadside; dead stems of herbaceous plants.

*♦*Lacrymaria lacrymabunda* (Bull.) Pat.; LR: [S5,S9] (as *Psathyrella velutina* (Pers.) Singer). PP: Berehy Górne; VI; shrubs by the stream; soil. UP: Smerek 3 km S; X; roadside; soil.

*♦*Lacrymaria pyrotricha* (Holmsk.) Konrad & Maubl.; LR: [S1]. Notes: In Poland also known from Tatry Mts [S127], Kaczawskie Foothills [S33] and Przemyśl Foothills [S29].

*♦*Lactarius acris* (Bolton) Gray; RL-R; LR: [S6,S7,S13].

*♦*Lactarius albocarneus* Britzelm.; RL-R; LR: [S1,S4,S7] (as *L. glutinopallens* F.H. Moller & J.E. Lange). UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

##**Lactarius aurantiacus* (Pers.) Gray s.str.; UP: Wetlina (Górna Solinka valley); X; overgrown meadow; soil.

#Lactarius badiosanguineus* Kühner & Romagn.; PP:** W slope of Halicz Mt; VIII; rowan-spruce shrubs; soil. **UP:** between Tarnawa and Muczne (769 m asl pass); fir forest; soil.

***♦*Lactarius blennius* (Fr.) Fr.; LR:** [S1,S4,S5,S6,S7,S9,S13]. **PP:** SE from Bereżki (NW slope of Widełki Mt), Wetlina (Lutowy valley); VIII, X; beech forest; soil. **UP:** Smerek 2 km S, Wetlina (E slope of Jawornik Mt), Wetlina (Górna Solinka valley), Beniowa 6 km S, NE slope of Wielka Rawka Mt, Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII, X; beech forest, mixed forest, fir-beech forest, roadside; soil.

****Lactarius brunneohepaticus* M.M. Moser; LR:** [S4,S53]. **PP:** Połonina Wetlińska Mt, Bukowe Berdo Mt, S slope of Rozsypaniec Mt (200 m from the Bukowska Pass); VIII; *Pulmonario-Alnetum viridis*; soil. **Notes:** In Poland known only from Bieszczady NP.

***♦*Lactarius camphoratus* (Bull.) Fr.; LR:** [S1,S5,S6,S9]. **PP:** Beniowa (Szczob); VIII; fir-beech forest; soil. **UP:** Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 1.5 km SE (NE slope of Kiczera Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW, between Tarnawa and Muczne (769 m asl pass); VI-VIII; mixed forest, fir-beech forest; litter, soil.

#*♦*Lactarius decipiens* Quéf.; PP: Wetlina Górna (BdNP camping place); VIII; beech forest; soil.

?*Lactarius deliciosus* (L.) Gray; LR: [S7,S9]. **Notes:** *Lactarius deliciosus* (L.) Gray is associated with scotch pine. The authors [S7,S9] have reported spruces and firs as mycorrhizal partners; therefore, one could suppose that these records are related to similar taxa, *Lactarius deterrimus* Gröger and *Lactarius salmonicolor* Heim. & Leclair.

***♦*Lactarius deterrimus* Gröger; LR:** [S1]. **PP:** Berehy Górne, Beniowa (Syhłowy valley), Beniowa (Bobrowiec valley), Beniowa; VIII, X; beech forest, fir-beech forest, meadow; soil. **UP:** Wetlina (Rowiń Forest), Lutowiska 2 km W, Tarnawa Bog 2.5 km SW, near Bereżki (NE slope of Wierch Mt), Pszczeliny-Widełki 0.5 km SE (NE slope of Kiczera Mt), Bereżki 1 km W; VIII, X; spruce forest, mixed forest; soil.

***♦*Lactarius fuliginosus* (Fr.) Fr.; LR:** [S1,S7].

#*◆*Lactarius fulvissimus* Romagn.; PP: Beniowa (Szczyb); VIII; fir-beech forest; soil. **UP:** Lutowiska (nature trail); VIII; mixed forest; soil.

***◆*Lactarius glaucescens* Crossl.; LR:** [S1]. **UP:** Dwernik 1.5 km NE, Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), S from Zatwarnica (Hylaty valley, Izwir); VIII-IX; mixed forest; beech forest; soil.

***◆*Lactarius glyciosmus* (Fr.) Fr.; LR:** [S5,S9]. **UP:** Muczne 1 km SW (NE slope of Bukowe Berdo Mt); VIII; mixed shrubs; soil.

***◆*Lactarius helvus* (Fr.) Fr.; LR:** [S1].

◆*Lactarius hygginus* (Fr.) Fr.; RL-V; LR: [S188].

***◆*Lactarius lignyotus* Fr.; LR:** [S1,S6,S9]. **PP:** Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Beniowa (Szczyb); VIII, X; fir-beech forest; log, soil. **UP:** W from Berezki, Lutowiska 7 km SW, Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VII-VIII; beech forest, fir-beech forest; soil.

***◆*Lactarius lilacinus* (Lasch) Fr.; RL-R; LR:** [S4,S5,S6,S9,S13,S188,S189]. **PP:** Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; shrubs by the stream; soil. **UP:** Wołosate; IX; *Alnetum incanae*; soil.

****Lactarius mitissimus* (Fr.) Fr.; LR:** [S7]. **PP:** Wetlina (Górna Solinka valley, Chyżyszcze); X; fir-beech forest; soil. **Notes:** Species often included into *L. aurantiacus* (Pers.) Gray s.l.

***◆*Lactarius necator* (Bull.) Pers.; LR:** [S1]. **UP:** Lutowiska (nature trail), between Tarnawa and Muczne (769 m asl pass); VIII; mixed forest, fir forest; soil.

***◆*Lactarius obscuratus* (Lasch) Fr.; LR:** [S4,S5,S7,S9,S188,S189]. **PP:** Wetlina (Lutowy valley), NE slope of Wielka Rawka Mt, Pszczeliny; VIII-X; shrubs by the stream, *Alnetum incanae*; soil.

#*◆*Lactarius omphaliformis* Romagn.; PP: Wetlina (Lutowy valley); X; shrubs by the stream; soil.

***◆*Lactarius pallidus* Pers.; LR:** [S1,S6,S7]. **UP:** Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Berezki 2 km NW; VIII; fir-beech forest; soil.

#*♦ *Lactarius picinus* Fr.; RL-R; PP: Ustrzyki Górne 2 km N (N slope of Kiczera Mt), Beniowa (Szczob); VIII; beech forest, fir-beech forest; soil. **UP:** Wetlina (Górna Solinka valley); X; beech forest; soil.

***♦ *Lactarius piperatus* (L.) Pers.; LR:** [S1,S4,S5,S6,S7,S9,S12,S13,S189]. **PP:** Berehy Górne 1 km E (Snozy Forest), NE slope of Wielka Rawka Mt (Dołhe Pole), Wołosate 3.5 km E (Horbki); VIII; beech forest, fir-beech forest; soil. **UP:** Dwerniczek 1.5 km N, between Tarnawa and Muczne (769 m asl pass), S from Zatwarnica (Hylaty valley, Izwir), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Berezki 2 km NW; VIII-IX; beech forest, mixed forest, fir-beech forest; soil.

#*♦ *Lactarius pterosporus* Romagn.; PP: NE slope of Wielka Rawka Mt; VIII; fir-beech forest; soil. **UP:** SW from Muczne (Jamniczna), Rozsypaniec Mt 1 km SW; VIII-IX; beech forest, fir-beech forest; soil.

#* *Lactarius pubescens* (Schrad.) Fr.; PP: Wetlina Górna (BdNP camping place); X; meadow (under birches); soil.

***♦ *Lactarius pyrogalus* (Bull.) Fr.; LR:** [S1,S7]. **PP:** Wetlina (Lutowy valley); X; beech forest; soil. **UP:** Near Berezki (NE slope of Kiczera Berezczńska Mt), Lutowiska (Filówka spring), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Widełki 1 km W (SE slope of Magura Stuposiańska Mt), Berezki 2 km NW; VIII; beech forest, mixed forest, fir-beech forest, beech-hazel shrubs; soil.

!#*♦ *Lactarius romagnesii* Bon; NChL; PP: Pszczeliny-Widełki (3 km SE from forester's lodge), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; beech forest, fir-beech forest; soil. **UP:** Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil. **Notes:** Cap up to 10 cm in diameter, first convex with depressed centre, then funnel-shaped, dry, pruinose, dark brown, with rugulose surface. Stipe up to 7 cm high, cylindrical, smooth, pale brown. Lamellae adnate to decurrent, distant, cream-colored. Flesh white, turning pinkish when exposed to air. Taste almost mild, smell of bugs or spicy. Milk white. Basidia 4-spored. Spores subglobose, 7–11 × 6.5–9.5 µm, with amyloid ornamentation, composed from ca. 2.5 µm high ridges, crests and warts, often confluent forming incomplete reticulum. Gill edge sterile. Cheilocystidia as paracystidia, cylindrical to

subclavate, flexuous. Pleurocystidia absent. Pileipellis a hymenoepithelium composed of elements with brown pigment, terminal elements clavate, other elements subsphaerical. Stipitipellis a cutis. Clamps present. Specimens seen: 20.08.2010, *leg. & det.* T. Ślusarczyk, fungarium no. 15/TŚ/BdPN/20082010; 19.08.2010, *leg. & det.* T. Ślusarczyk, fungarium no. 3/TŚ/BdPN/19082010; 05.09.2011, *leg.* G. Domian, A. Kujawa, *det.* B. Gierczyk, fungarium no. 12/BdPN/5.09.11.

!#Lactarius rostratus* Heilm.-Claus.; NChL; PP:** Wetlina (Górna Solinka valley, Sołyński Forest); X; fir-beech forest; soil. **Notes:** Caps small, up to 4 cm in diameter, convex with slightly depressed centre, then plane to funnel-shaped, sometimes with an umbo, dry, smooth, distinctly rugose or granular, brick brown, orange fulvous or cinnamon brown. Stipe up to 3 cm high, cylindrical, smooth, orange brown. Gills adnate to decurrent, crowded, ochraceous. Flesh ochraceous, unchanging, taste mild, smell of bugs. Milk watery white. Basidia 4-spored. Spores subglobose, 6–9.5 × 5.5–7.5 μm, with amyloid ornamentation composed of 1–1.5 μm high warts and ridges, forming zebra-like pattern. Gill edge heterogenous. Cheilomacrocystidia fusiform with acute apex, often moniliform. Pleuromacrocystidia fusiform to lageniform, acute, rostrate. Pileipellis a hyphoepithelium, terminal elements shortly cylindrical, others ones subsphaerical. Stipitipellis a cutis. Clamps present. Specimens seen: 08.10.2009, *leg. & det.* B. Gierczyk, fungarium no. BdPN-01290.

***♦*Lactarius rufus* (Scop.) Fr.; LR:** [S1,S4,S68].

#♦*Lactarius ruginosus* Romagn.; NChL; UP: Lutowiska (nature trail), Dwerniczek 1.5 km N; VIII; beech forest; soil. **Notes:** Species known in Poland hitherto also from Gorce Mts [S183].

***♦*Lactarius salmonicolor* Heim & Leclair; LR:** [S7] (as *L. subsalmoneus* Pouzar ss. Neuhoff), [S1,S4]. **PP:** SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Wetlina (Górna Solinka valley, SW slope of Kiczera Mt), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Górna Solinka valley, Sołyński Forest), S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Beniowa (Syhłowaty valley); VIII, X; beech forest, fir-beech forest; soil. **UP:** Smerek 3 km S, between Tarnawa and Muczne (769 m asl pass), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII, X; fir forest, fir-beech forest, roadside; soil.

*♦*Lactarius scrobiculatus* (Scop.) Fr.; LR: [S1]. PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest; soil.

*♦*Lactarius subdulcis* (Bull.) Gray; LR: [S1,S4,S5,S6,S7,S9,S12,S13,S189]. PP: Suche Rzeki (SE slope of Maguryczy Mt), Wetlina (Lutowy valley), vicinity of Muczne (Jamniczna); VI-X; beech forest, fir-beech forest; soil. UP: Near Bereżki (NE slope of Kiczera Bereżczańska Mt), NE slope of Wielka Rawka Mt, Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII; beech forest, fir-beech forest; soil.

*♦*Lactarius tabidus* Fr.; LR: [S1] (as *L. thejogalus* (Bull.) Gray ss. Neuhoff.). PP: Bereżki (NE slope of Kiczera Mt); VIII; beech-hazel forest; soil. UP: vicinity of Lutowska village, Lutowska (nature trail), Bereżki 2 km NW; VII-VIII; beech forest, mixed forest; soil.

*♦*Lactarius torminosus* (Schaeff.) Pers.; LR: [S1]. PP: Berehy Górne, Wołosate (N slope of Kiczera Leńkowska Mt, Mochnaczka); VIII, X; mixed brushwood, roadside; soil.

*♦*Lactarius uvidus* (Fr.) Fr.; LR: [S6,S13]. PP: Wetlina (Górna Solinka valley, Chyzyszcze); X; fir-beech forest; soil.

*♦*Lactarius vellereus* (Fr.) Fr.; LR: [S1,S4,S6,S9,S13], [S189] (as *L. vellereus* Fr. var. *velutinus* Bert.).

*♦*Lactarius volemus* (Fr.) Fr.; LR: [S1,S5,S6,S9,S13,S68]. UP: Czarna 5 km S, Dwernik 1.5 km NE, Zatwarnica 2 km S (Hylaty valley), Wołosate 1 km S, S from Zatwarnica (Hylaty valley, Izwir), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW; VIII-IX; beech forest, fir-beech forest, deciduous forest; soil.

*♦*Laetiporus sulphureus* (Bull.) Murrill; LR: [S1,S5]. PP: Suche Rzeki (W slope of Jawornik Mt), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt); VI, VIII; beech forest, fir-beech forest; *Fagus* wood. UP: Wołosate 1 km S; IX; beech forest; *Fagus* wood.

#**Langermannia gigantea* (Batsch.) Rostk.; PP: Dźwiniacz (cemetery); VI; tree clump; soil.

*♦*Laxitextum bicolor* (Pers.) Lentz; LR: [S6] (as *Stereum fuscum* (Schrad.) Quél.), [S1,S5,S7,S9,S12]. UP: between Muczne and Tarnawa (769 m asl pass), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest, mixed forest; *Fagus* branch.

*♦*Leccinum aurantiacum* (Bull.) Gray; LR: [S5,S6,S7]. PP: Beniowa; VIII; fir-beech forest; soil. UP: Berehy Górne 1.5 km E; VII; beech forest (under aspen); soil.

**Leccinum duriusculum* (Schulzer) Singer; LR: [S9].

*♦*Leccinum niveum* (Fr.) Rauschert; RL-V; LR: [S1,S4].

♦*Leccinum pseudoscabrum* (Kallenb.) Šutara; LR: [S1]. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; hazel shrubs; soil.

*♦*Leccinum scabrum* (Bull.) Gray; LR: [S1,S4,S7,S9], [S64] (as *Boletus scaber*). PP: Wetlina Górna (near BdNP camp place), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate (N slope of Kiczera Leńkowska Mt, Mochnaczka); VIII, X; roadside (under birch), beech forest (under birch), meadow; soil. UP: Pszczeliny 2 km W (SE slope of Kosowiec Mt); VIII; mixed shrubs; soil.

*♦*Leccinum variicolor* Watling; LR: [S1,S4].

*♦*Leccinum versipelle* (Fr. & Hök) Snell.; LR: [S9] (as *L. aurantiacum* Bull. ex Gray f. *rufescens* (Konr.) Vassilkov), [S1]. PP: Berehy Górne, Wołosate 1 km W (Mochnaczki), Beniowa (Syhłowaty valley), Beniowa (Bobrowiec valley); VIII, X; fir-beech forest, beech forest, deciduous brushwood, birch brushwood; soil. UP: Lutowiska 1 km W, Lutowiska 1.5 km W; VIII; birch-poplar copse, roadside; soil.

*♦*Lentinellus cochleatus* (Pers.) P. Karst.; SSI(B); LR: [S1,S6,S7,S9,S13,S45]. PP: Berehy Górne 1 km E (Snozy Forest), Wołosate (N slope of Kiczera Manzowa Mt), Beniowa (Kiczery Beniowskiej); VIII; beech forest, fir-beech forest, mixed forest; *Salix* trunk base, soil. UP: Wetlina (Górna Solinka valley), Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), Zatwarnica 3 km S (Hriadnik), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII-X; beech forest, fir-beech forest; wood, *Fagus* trunk, soil.

**Lentinellus ursinus* (Fr.) Kühner; RL-V, I++; LR: [S5,S6]. PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest; trunk. UP: Pszczeliny (Widelki Mt), Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt), NE slope of Wielka Rawka Mt; VIII, X; fir-beech forest, beech forest; wood.

*♦*Lentinus strigosus* Fr.; RL-V, SSI(C); LR: [S7,S9] (as *Panus rudis* Fr.).

*♦*Lenzites betulinus* (L.) Fr.; SSI(C); LR: [S9] (as *L. betulina* (L.) Fr. f. *variegata* Fr.), [S1,S5,S12].

#♦*Lepiota boudierii* Bres.; UP: Pszczeliny-Widelki 1.5 km SE (NE slope of Kiczera); VIII; fir-beech forest; soil.

#*♦*Lepiota castanea* Quél.; PP: Wetlina (Lutowy valley); X; shrubs by the stream; soil. UP: Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt); IX; beech forest; soil.

*♦*Lepiota clypeolaria* (Bull.) P. Kumm.; LR: [S1,S6,S7,S13], [S9] (as *L. clypeolaria* (Bull.) Quél. and *L. clypeolaria* (Bull.) Quél. var. *minor* J.E. Lange). UP: Wołosate (near water intake), Bereżki 2 km NW; VIII, X; deciduous forest, fir-beech forest; soil.

*♦*Lepiota cristata* (Bolton) P. Kumm.; LR: [S5,S7,S9]. UP: Lutowska (near BdNP education center); VIII; lawn (under spruce); soil.

*♦*Lepiota felina* (Pers.) P. Karst.; LR: [S135].

*♦*Lepiota oreadiformis* Velen.; LR: [S4,S135].

*♦*Lepiota ventriospora* D.A. Reid; LR: [S1]. PP: vicinity of Muczne (Jamniczna); VIII; fir-beech forest; soil. UP: between Opołonek Mt and San spring, Terebowiec valley, NE slope of Wielka Rawka Mt, Pszczeliny 2 km W (SE slope of Kosowiec Mt); VIII; beech forest, fir-beech forest; soil.

♦*Lepista flaccida* (Sowerby) Pat.; LR: [S7] (as *Clitocybe inversa* (Scop.) Quél.). UP: Wola Michowa; X; beech forest; soil.

**Lepista gilva* (Pers.) Pat.; LR: [S5,S7,S9] (as *Clitocybe gilva* (Fr.) Quél.).

#*♦*Lepista nuda* (Bull.) Cooke; PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; spruce-willow shrubs; soil. **UP:** Wetlina (Górna Solinka valley); X; beech forest; soil.

#*♦*Lepista sordida* (Schumach.) Singer; UP: Wołosate (horse stud), Lutowska 0.8 km W; VII-VIII; horse stud site, meadow; soil, hay.

****Leptosporomyces galzinii* (Bourdot) Jülich; LR:** [S7,S9] (as *Athelia galzini* (Bourdot) Donk).

#♦*Leratiomyces squamosa* (Pers.) Bridge & Spooner var. *squamosa*; RL-I; UP: Pszczeliny (Widelki), Rabe 2.5 km NW (NE slope of Chryszczata Mt); IX-X; beech forest; soil.

***♦*Leratiomyces squamosa* (Pers.) Bridge & Spooner var. *thrausta* (Kalchbr.) Bridge & Spooner; LR:** [S4] (as *Psilocybe squamosa* var. *thrausta*), [S53] (as *Stropharia thrausta* (Schulz. ap. Kalchbr.) Sacc.). **UP:** Wetlina (Lutowy valley); X; beech forest; litter.

***♦*Leucocortinarius bulbiger* (Alb. & Schwein.) Singer; RL-R; LR:** [S6,S7].

****Lichenomphalia hudsoniana* (H.S. Jenn.) Redhead, Lutzoni, Moncalvo & Vilgalys; LR:** [S190,S191], [S192,S193] (as *Omphalina hudsoniana* (H.S. Jenn) H.E. Bigelow), [S194] (as *Coriscium viride* (Ach.) Vain.).

***♦*Lichenomphalia umbellifera* (L.) Redhead, Lutzoni, Moncalvo & Vilgalys (Fig. S31); RL-R; LR:** [S1,S4,S9,S192,S195] (as *Omphalina umbellifera* (L.) Quél.), [S190,S191]. **PP:** Dźwiniacz Bog; VI; bog; peat. **UP:** Tarnica, S from Zatwarnica (Hylaty valley, Izwir); IX; beech forest, hanging bog; log, *Sphagnum*.

****Lichenomphalia velutina* (Quél.) Redhead, Lutzoni, Moncalvo & Vilgalys; LR:** [S1] (as *Omphalina velutina* (Quél.) Quél.). **Notes:** In Poland also known from Tatry NP [S196].

****Lignomyces vetlinianus* (Domański) R.H. Petersen & Zmitr.; RL-E; LR:** [S4,S5,S7,S197] (as *Pleurotus vetlinianus* Domań.), [S129] (as *Resupinatus vetlinianus* (Domanski) Moser), [S198]. **Notes:** In Poland also known from Magura NP [S198]. *Locus classicus* in Bieszczady NP.



Fig. S31. Basidioma of *Lichenomphalia umbellifera* (L.) Redhead, Lutzoni, Moncalvo & Vilgalys from the Bieszczady Mts (Aug 18, 2009). Photography by G. Domian.

***Litschauerella clematidis* (Bourdot & Galzin) J. Erikss. & Ryvarden; RL-E; LR: [S7]** (as *Xenasma clematidis* (Bourdot & Galzin) Liberta). **Notes:** In Poland also known from Ojców NP [S199].

****Lycoperdon caudatum* J. Schröt.; RL-V; LR: [S5,S7]** (as *L. pedicellatum* Peck var. *pedicellatum*).

***◆*Lycoperdon echinatum* Pers.; RL-R; LR: [S1,S5,S6,S9,S12]. UP:** Wetlina (Górna Solinka valley); X; beech forest; soil.

***◆*Lycoperdon excipuliforme* (Scop.) Pers.; LR: [S6]** (as *Calvatia excipuliformis* (Scop.) Perdeck), [S4]. **PP:** Bukowska Pass, Beniowa (Bobrowiec valley), Berehy Górne; VIII-X; meadow, roadside; soil.

**Lycoperdon lividum* Pers.; LR: [S5,S9] (as *L. spadiceum* Pers. s. Hollos.).

**Lycoperdon molle* Pers.; LR: [S6].

**Lycoperdon nigrescens* Pers.; LR: [S1]. PP: Wetlina Górna (BdNP camping place), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt); VIII, X; beech forest, spruce forest; soil. UP: Lutowiska (nature trail), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; mixed forest, fir-beech forest; soil.

*♦*Lycoperdon perlatum* Pers.; LR: [S13] (as *L. gemmatum* Barsch.), [S5,S6,S9] (as *L. perlatum* Pers., *L. perlatum* Pers. var. *albidum* (Velen.) F. Šmarda and *L. perlatum* Pers. var. *excoriatum* (Lloyd) F. Šmarda), [S1,S11]. PP: Wołosate 3.5 km E (Horbki), Wołosate (N slope of Kiczera Mt, Za Potok), Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Górna Solinka valley, Sołynki Forest); VIII, X; beech forest, spruce-beech forest, spruce brushwood; *Fagus* log, soil. UP: near Tarnawa Górna (3.5 km SW from Tarnawa bog), Wyżniańska Pass 2 km SW (by the tourist trail to Mała Rawka Mt), Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII-IX; mixed forest, fir-beech forest, beech forest; *Fagus* log, soil.

*♦*Lycoperdon pratense* Pers.; LR: [S7,S9] (as *Vascellum depressum* (Bon.) Šmarda), [S1,S4] (as *V. pratense* (Pers.) Kreisel). PP: Berehy Górne, Dźwiniacz (near cemetery); VI, X; meadow, roadside; soil. UP: Lutowiska (near Jewish cemetery); VIII; meadow; soil.

*♦*Lycoperdon pyriforme* Schaeff.; LR: [S1,S5,S6,S7,S11,S12,S13]. PP: Wołosate 3.5 km E (Horbki), Wetlina (Górna Solinka valley), Wetlina (Górna Solinka valley, Chyżyszcze), Dźwiniacz (cemetery); V-X; beech forest, fir-beech forest, mixed forest; soil, *Fagus* logs and trunks. UP: SW from Zatwarnica (Hulski valley), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW; VIII-IX; fir-beech forest, beech forest; *Fagus* trunk.

**Lycoperdon umbrinum* Pers.; LR: [S1].

*♦*Lycoperdon utrifforme* Bull.; LR: [S7,S9] (as *Calvatia caelata* (Bull.) Morg.).

****♦ *Lyophyllum decastes* Fr.) Singer var. *decastes*; PP:** Wetlina (Lutowy valley); X; beech forest; soil.

*****Lyophyllum deliberatum* (Britzelm.) Kreisel; RL-E; UP:** Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil. **Notes:** Species known in Poland hitherto also from Babia Góra NP [S200], vicinity of Mostki village [S88] and Gorce Mts [S183].

#*Lyophyllum palustre* (Peck) Singer; RL-V; UP: Kalnica; X; wet meadow; soil

*****Lyophyllum tylicolor* (Fr.) M. Lange & Sivertsen; UP:** Ustrzyki Górne 6 km W (by the tourist trail to Wielka Rawka Mt); IX; shrubs; soil.

***♦ *Macrocystidia cucumis* (Pers.) Joss. var. *cucumis*; LR:** [S1,S7].

***♦ *Macrocystidia cucumis* (Pers.) Joss. var. *latifolia* (J.E. Lange) Imazeki & Hongo; NChL; LR:** [S4]. **UP:** Ustrzyki Górne (N part), Lutowiska (Jewish cemetery); VII-VIII; roadside, cemetery area; soil. **Notes:** Variety often not distinguished from typical one, in Poland also known from D. Chłapowski LP [S40,S201].

***♦ *Macrolepiota procera* (Scop.) Singer; LR:** [S13] (as *Lepiota procera* Scop.), [S5,S7]. **UP:** Beniowa 6.2 km S; VIII; roadside; soil.

****♦ *Macrotyphula filiformis* (Bull.) Rauschert; RL-R; UP:** Wetlina (Górna Solinka valley); X; beech forest; litter.

***♦ *Macrotyphula fistulosa* (Holmsk.) R.H. Petersen var. *fistulosa*; RL-R; LR:** [S4] (as *Clavariadelphus fistulosus*). **PP:** Wetlina (Lutowy valley); X; shrubs by the stream; wood remains. **UP:** Wetlina (Górna Solinka valley), Ustrzyki Górne 0.5 km NW (by the tourist trail to Połonina Caryńska Mt); IX-X; beech forest; litter, *Fagus* log.

***♦ *Marasmiellus foetidus* (Sowerby) Antonín, Halling & Noordel.; RL-R; LR:** [S12] (as *Micromphale foetidum* (Sowerby) Singer). **PP:** Dźwiniacz (cemetery); VI; tree clump; soil.

***♦ *Marasmiellus perforans* (Hoffm.) Antonín, Halling & Noordel.; LR:** [S7,S9,S13] (as *Marasmius perforans* (Hoffm.) Singer), [S5] (as *Micromphale perforans* (Hoffm.) Singer); [S1,S4]. **PP:** Ustrzyki Górne 2 km SW (Wierch Mt), W from Wołosate Bog (Wielkie Pole), Wetlina (Górna Solinka valley), Wetlina (Górna Solinka valley, SW slope of Dział Mt),

Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, Chyżyszcze); V, VIII-X; beech forest, spruce forest, spruce-beech forest, hazel shrubs; litter. **UP:** Near Bereżki (NE slope of Kiczera Bereźczańska Mt), Pszczeliny-Widełki 0.5 km SE (NE slope of Kiczera Mt), Bereżki 1 km W; VIII; spruce forest; litter.

*♦ ***Marasmiellus ramealis* (Bull.) Singer; LR:** [S5,S9] (as *Marasmius ramealis* (Bull.) Fr.).

?***Marasmiellus* sp.; LR:** [S9] (as *M. candidus* (Bolt.) Fr.), [S5] (as *M. languidus* (Lasch) Sing.). **Notes:** In 1963 [S9] *Marasmius candidus* (Bolton) Fr. “(...) on twigs of *Alnus incana*” was mentioned, since in 1970 [S5] the authors reported “*Marasmiellus languidus* (Lasch) Singer [= *Marasmius candidus* (Bolton) Fr. ss. Lange] (...) on fallen twigs of *Alnus incana* and herbaceous plant remains” and noted, that this species was published also in 1963. This records corresponds probably to *Marasmiellus tricolor* (Alb. & Schwein.) Singer [= *M. languidus* (Lasch) Singer], the species growing on grasses and their roots or *Marasmiellus candidus* (Bolton) Singer, which is a species growing on wood.

*♦ ***Marasmiellus vaillantii* (Pers.) Singer; LR:** [S1]. **UP:** near Pszczeliny (2 km S from Widełki forester’s lodge), NE slope of Wielka Rawka Mt, Near Bereżki (NE slope of Kiczera Bereźczańska Mt); VIII-IX; beech forest, fir-beech forest; *Fagus* litter, *Rubus* stems.

*♦ ***Marasmius bulliardii* Quél.; LR:** [S1,S7,S9]. **PP:** Wetlina (Górna Solinka valley), Wetlina (Lutowy valley); V, X; beech forest; *Fagus* litter.

*♦ ***Marasmius cohaerens* (Pers.) Cooke & Quél.; LR:** [S7,S9]. **UP:** Wołosate (N part); VII; roadside; soil.

****Marasmius curreyi* Berk. & Broome; LR:** [S4]. **UP:** Wetlina (Górna Solinka valley); VII; roadside; grass stems.

*♦ ***Marasmius limosus* Quél.; RL-E; LR:** [S9]. **UP:** Wołosate (N part); VII; roadside; litter.

****Marasmius minutus* Peck; LR:** [S1].

*♦ ***Marasmius oreades* (Bolton) Fr.; LR:** [S1,S4,S5,S7,S9,S13]. **PP:** Wetlina Górna (BdNP camping place), Berehy Górne, Wetlina (Lutowy valley), Dźwiniacz (near cemetery), Tarnawa Niżna; VI, X; meadow, roadside; soil. **UP:** Lutowiska, Lutowiska (Jewish cemetery), Wołosate (horse stud); VII-IX; lawn, roadside, cemetery area; soil.

?*Marasmius rotalis* Berk. & Broome; LR: [S9]. Notes: *M. rotalis* Berk. & Broome is known only from Africa and South America. According to Wojewoda [S51] Polish records of this species correspond to *M. rotula* (Scop.) Fr. However, in paper by Domański et al. [S9], both species are listed; therefore, one could conclude that the authors found some other *Marasmius* species with collar around the stipe, growing on *Fagus* litter. In paper [S1] data by Domański et al. were mentioned as *M. rotula*.

*♦*Marasmius rotula* (Scop.) Fr.; LR: [S1,S5,S6,S7,S9,S12]. PP: Ustrzyki Górne 2 km SW (Wierch Mt), Wetlina Górna (BdNP camping place); VIII; beech forest; litter, *Fagus* log. UP: Widełki 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Corylus* branches.

*♦*Marasmius setosus* (Sowerby) Noordel.; RL-V; LR: [S91,S202]. PP: Wetlina (Górna Solinka valley, Sołynki Forest), Wetlina (Górna Solinka valley, SW slope of Dział Mt); X; fir-beech forest, spruce-beech forest; *Fagus* litter.

**Marasmius torquescens* Qué!.; LR: [S5,S7,S9] (as *M. lupuletorum* (Weinm.) Fr.), [S1].

**Marasmius wettsteinii* Sacc. & P. Syd.; LR: [S1,S4]. UP: Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Abies* litter.

*♦*Marasmius wynneae* Berk. & Broome; LR: [S1,S5,S6,S13].

#**Melanogaster broomeanus* Berk. (Fig. S32); UP: Zatwarnica 2 km S (Hylaty valley); VIII-IX; beech forest; soil.



Fig. S32. Basidiomata of *Melanogaster broomeanus* Berk. from the Bieszczady Mts (Aug 06, 2011). Photography by K. Kujawa.

*◆*Melanoleuca cognata* (Fr.) Konrad & Maubl.; LR: [S1].

#**Melanoleuca excissa* (Fr.) Singer var. *excissa*; PP: Berehy Górne; VI; meadow; soil.

*◆*Melanoleuca melaleuca* (Pers.) Murrill s.l.; LR: [S7,S9].

?◆*Melanoleuca strictipes* (P. Karst.) Jul. Schäff.; RL-R; LR: [S51]. Notes: Listed on the checklist [S51] after Domański et al. [S9]; however, this species was not reported in this paper.

**Melanoleuca subalpina* (Britzelm.) Bresinsky & Stangl; LR: [S4,S9] (as *M. evenosa* (Sacc.) Konrad & Maubl.).

*◆*Melanophyllum haemospermum* (Bull.) Kreisel; RL-R; LR: [S6,S9,S55] (as *M. echinatum* (Roth.) Singer). PP: Wołosate (N slope of Kiczera Manzowa Mt); VIII; beech forest; wood.

*◆*Mensularia hastifera* (Pouzar) T. Wagner & M. Fisch.; RL-I; LR: [S7,S9] (as *Inonotus radiatus* (Sow.) Karst. f. *resupinatus* B. & G. and *I. radiatus* (Sow.) Karst. ssp. *polymorphus* (Rostk.) B. & G.), [S4] (as *I. hastifer*). PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt); VI; beech forest; *Fagus* trunk. UP: Bereżki 2 km NW; VIII; fir-beech forest; *Fagus* log. Notes: In paper by Gierczyk et al. [S1] the data by Domański et al. [S9] was omitted.

*◆*Meripilus giganteus* (Pers.) P. Karst.; SSI(C); LR: [S1]. PP: Wołosate 3.5 km E (Horbki); VIII; beech forest; *Fagus* trunk base. UP: Smerek 1.5 km N (by the tourist trail to Smerek Mt), Hulskie NR, Jaworzec 0.5 km W (E slope of Kiczera Mt), Jaworzec 1.5 km SEE (E slope of Czerenina Mt); VIII-IX; beech forest; *Fagus* trunk base.

#**Merismodes anomala* (Pers.) Singer; UP: Wetlina (Lutowy valley); VI; roadside; *Salix* branch.

?*Merulius phlebioides* Bourd. & Galz.; LR: [S6]. Notes: Species differently interpreted by various authors. According to Wojewoda [S51] it is synonym of *Phlebia rufa* (Pers.) M.P. Christ.

*◆*Mucidula mucida* (Schrad.) Pat.; LR: [S13], [S1,S4,S5,S6,S7,S9,S11,S54] (as *Oudemansiella mucida* (Schrad.) Höhn.). PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (W slope of

Jawornik Mt), Suche Rzeki (Czerzeżyk Łocentyków), Wetlina (Górna Solinka valley, Jurciowa), Wetlina (Górna Solinka valley, Chyżyszcze), S from Bereżki (Zwir valley – Polanki), SE from Bereżki (NW slope of Widełki Mt), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (SW slope of Semków Wierszek Mt), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate (Polaniec valley), Wołosate 3.5 km E (Horbki); VI-X; beech forest, fir-beech forest; *Fagus* log. **UP:** Hulskie NR (boarders), Wołosate 1 km S, Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Wołosate 4 km E (Hawry Forest), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW; VIII-IX; beech forest, fir-beech forest; *Fagus* logs and branches.

#*◆*Multiclavula delicata* (Fr.) R.H. Petersen; NChL; PP: Moczarne (Górna Solinka valley); X; fir-beech forest; log. **Notes:** In Poland also known from Białowieża NP [S24,S34].

***◆*Multiclavula mucida* (Pers.) R.H. Petersen (Fig. S33); SSI(C); LR:** [S1] (as *Lentaria mucida* (Pers.) Corner), [S191,S203]. **UP:** SW from Zatwarnica (Hulski valley), Muczne (NE slope of Kudriawyński Wierch Mt); IX-X; beech forest, fir-beech forest; *Abies* log.

***◆*Mutinus caninus* (Huds.) Fr.; SSI(C); LR:** [S1,S7]. **PP:** SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (SE slope of Maguryczy Mt), Nasiczne (E slope of Magura Nasiczańska Mt), Wołosate (Polaniec valley); VI, VIII; beech forest, spruce forest; soil. **UP:** Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Dwernik 2 km N (near Chata Socjologa tourist shelter); VIII; fir-beech forest, beech forest; soil.

***◆*Mycena abramsii* (Murrill) Murrill; LR:** [S1]. **PP:** Dźwiniacz (cemetery), Nasiczne (E slope of Magura Nasiczańska Mt), Wetlina (Górna Solinka valley); V-VI; beech forest, tree clump; *Fagus* log, deciduous wood. **UP:** Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Fagus* branch.

***◆*Mycena acicula* (Schaeff.) P. Kumm.; LR:** [S1,S5,S9]. **PP:** W from Zatwarnica (Tworylczyk valley), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Rzeka valley), Ustrzyki Górne (by the bridge over Wołosaty stream), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki), Tarnawa Niżna; VI; beech forest, roadside, mixed forest, *Alnetum incanae*; litter, *Fagus* log.



Fig. S33. Basidiomata of the *Multiclavula mucida* (Pers.) R.H. Petersen from the Bieszczady Mts (Oct 29, 2011). Photography by P. Chachuła.

**Mycena adonis* (Bull.) Gray var. *coccinea* (Sowerby) Kühner; LR: [S6] (as *M. rubella* Quél.). Notes: In Poland also known from historical locality in the vicinity of Miedzyrzec Podlaski [S204].

Mycena adonis (Bull.) Gray var. *adonis*; UP: Kalnica; X; meadow; soil.

#*Mycena adscendens* (Lasch) Maas Geest.; RL-E; UP: Lutowiska (nature trail); VIII; deciduous forest; *Rubus* stems.

?#*Mycena algeriensis* Maire; NChL; PP: Tworylczyk valley; VI; beech forest; *Fagus* log. Notes: According to Aronsen and Læssøe [S205] European specimens identified as *M. algeriensis* do not match the species concept presented by Maas Geesteranus [S206] and are probably dark forms of *M. niveipes* (Murrill) Murrill. In Poland hitherto mentioned also from Białowieża Primeval Forest [S34].

*♦ *Mycena amicta* (Fr.) Quél.; LR: [S7] (as *M. iris* Berk. ss. Lange). PP: Ustrzyki Górne (2 km SW, Wierch), Suche Rzeki (SE slope of Maguryczy Mt), Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); spruce forest, spruce brushwood, fir-beech forest, beech forest; litter, *Fagus* log. UP: Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦ *Mycena arcangeliana* Bres.; LR: [S1,S12]. PP: Wołosate (N slope of Kiczera Mt), Wołosate 3.5 km E (Horbki); VIII; beech forest; *Fagus* log. UP: Rozsypaniec Mt 1 km SW, Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Ustrzyki Górne 2.5 km W (NE slope of Wielka Rawka Mt); VIII-IX; beech forest, fir-beech forest; *Fagus* logs, trunk and branches.

?♦ *Mycena atrocyanea* (Batsch) Gillet; LR: [S9]. Notes: According to Aronsen and Læssøe [S205] it is *nomen dubium*. Species not mentioned in current monographs.

*♦ *Mycena aurantiomarginata* (Fr.) Quél.; RL-V; LR: [S6,S7,S12,S13]. UP: Wetlina (Górna Solinka valley), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII, X; fir-beech forest, roadside (under spruce); litter.

#*♦ *Mycena capillaris* (Schumach.) P. Kumm.; PP: Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wetlina (Górna Solinka valley, Sołyński Forest); X; beech forest, fir-beech forest, spruce-beech forest; *Fagus* litter. UP: Smerek 3 km S; X; roadside; *Fagus* litter.

♦ *Mycena citrinomarginata* Gillet; LR: [S7,S207]. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; meadow; soil.

*♦ *Mycena crocata* (Schrad.) P. Kumm.; RL-R; LR: [S1,S5,S6,S7,S9,S13,S54,S76,S208]. PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Czerteżyk Łocentyków), Wetlina (Górna Solinka valley), Wołosate 3.5 km E (Horbki), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt); V-VIII; beech forest, fir-beech forest, deciduous forest; soil, litter, *Fagus* log. UP: Wola Michowa, Wołosate 2 km NE (N slope of Hudów Wierszek Mt), Rozsypaniec Mt 1 km SW, E slope of Połonina Wetlińska Mt, Pszczeliny 1 km W (SE slope

of Magura Stuposiańska Mt), NE slope of Wielka Rawka Mt, Rabe 2.5 km NW (NE slope of Chryszczata Mt); VII-X; beech forest, fir-beech forest; litter, soil, *Fagus* twigs.

!#**Mycena eipterygia* (Scop.) Gray var. *atroviscosa* Malençon; NChL; PP: Wetlina (Górna Solinka valley, Chyzyszcze); X; fir-beech forest; *Abies* trunk. Notes: The variety differing from the nominative one by dark, black, blackish brown or very dark gray caps. Specimens seen: 08.10.2009, leg. & det. B. Gierczyk, fungarium no. BdPN-01236.

!#**Mycena eipterygia* (Scop.) Gray var. *candida* (Weinm.) Bon & P. Roux; NChL; PP: Wetlina (Lutowy valley); X; spruce-larch forest; litter. Notes: The variety differing from the nominative one by pure white basidiomata. Specimens seen: 10.10.2009, leg. B. Gierczyk det. A. Kujawa, B. Gierczyk, fungarium no. BdPN-01173.

*♦*Mycena eipterygia* (Scop.) Gray var. *eipterygia*; LR: [S1,S5,S6,S7,S9,S12]. PP: Wetlina (Lutowy valley); X; beech forest, spruce brushwood; litter. UP: Wetlina (Górna Solinka valley), Wola Michowa; X; beech forest, spruce forest; litter, soil.

*♦*Mycena eipterygia* (Scop.) Gray var. *viscosa* (Maire) Ricken; LR: [S9] (as *M. viscosa* (Secr.) Maire).

#*♦*Mycena erubescens* Höhn.; SSI(C); PP: Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt); VI; mixed forest; *Acer pseudoplatanus* log.

*♦*Mycena fagetorum* (Fr.) Gillet; LR: [S9].

**Mycena favrei* Maas Geest.; NChL; LR: [S4]. PP: NE slope of Wielka Rawka Mt (Dołhe Pole); VIII; spruce forest; litter. Notes: In Poland known only from the Bieszczady Mts.

*♦*Mycena filipes* (Bull.) P. Kumm.; LR: [S1]. PP: Ustrzyki Górne 1 km W; VIII; mixed forest; litter. UP: Wielka Rawka Mt; VIII; mixed forest; litter.

*♦*Mycena flavescens* Velen.; RL-R; LR: [S1,S11].

*♦*Mycena flavoalba* (Fr.) Quél.; LR: [S1,S9].

*♦*Mycena galericulata* (Scop.) Gray; LR: [S1,S5,S6,S7]. PP: Nasiczne (E slope of Magura Nasiczańska Mt), Wetlina Górna (BdNP camping place), Wetlina (Lutowy valley), NE slope of Wielka Rawka Mt (Dołhe Pole), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (SW slope of Semków Wierszek Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate (N

slope of Kiczera Manzowa Mt), Wołosate (Polaniec valley), Wołosate 3.5 km E (Horbki); VI-X; beech forest, spruce forest, mixed forest; *Fagus* log, *Corylus* branch, wood. **UP:** Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), NE slope of Wielka Rawka Mt, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII-IX; beech forest, fir-beech forest; wood, *Fagus* trunk.

*♦*Mycena galopus* (Pers.) P. Kumm. var. *galopus*; **LR:** [S5,S6,S7,S9] (as *M. galopoda* (Pers.) Quél.), [S1,S12]. **PP:** Wetlina (Górna Solinka valley, Chyżyszcze), NE slope of Wielka Rawka Mt (Dołhe Pole), near Dźwiniacz Górny (Dźwiniacz bog), Wołosate 3.5 km E (Horbki); VI-X; beech forest, fir-beech forest, mixed forest, peat bog; *Fagus* log, litter, *Sphagnum*. **UP:** Tarnawa Bog 1 km SW, between Tarnawa and Muczne (769 m asl pass), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW, NE slope of Wielka Rawka Mt; VIII; fir forest, mixed forest, fir-beech forest; litter.

##**Mycena galopus* (Pers.) P. Kumm. var. *leucogala* (Cooke) J.E. Lange; **UP:** Wetlina (Górna Solinka valley), Kalnica; X; spruce forest, meadow; soil.

*♦*Mycena haematopus* (Pers.) P. Kumm. var. *haematopus*; **LR:** [S5,S6,S7,S9] (as *M. haematopoda* (Pers.) Quél.), [S1,S11,S12]. **PP:** Suche Rzeki (E slope of Maguryczy Mt); VI; beech forest; *Fagus* log. **UP:** Near Bereżki (NE slope of Kiczera Bereźczańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW; VIII; fir-beech forest; trunk, *Fagus* branch.

Mycena haematopus* (Pers.) P. Kumm. var. *marginata* J.E. Lange; **LR: [S1]. **PP:** Wetlina Górna (BdNP camping place), Dźwiniacz (cemetery), Wołosate (Polaniec valley), Wołosate 3.5 km E (Horbki); VI, VIII; beech forest, tree clump; *Fagus* log, deciduous wood. **UP:** Wetlina (Rowiń Forest), S from Zatwarnica (Hylaty valley, Izwir), Tarnawa Bog 3 km SW, Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt); VIII-X; beech forest, mixed forest; *Fagus* log, wood.

Mycena hiemalis* (Osbeck) Quél.; **LR: [S5]. **UP:** Nasiczne; VI; beech forest; wood.

*♦*Mycena inclinata* (Fr.) Quél.; **LR:** [S5,S7]. **UP:** Bereżki 2 km NW; VIII; fir-beech forest; *Fagus* trunk.

#*◆*Mycena laevigata* (Lasch) Gillet; PP: Wetlina (Górna Solinka valley, Chyzyszcze); VI; beech forest; ?*Abies* log.

***◆*Mycena leptcephala* (Pers.) Gillet; LR:** [S9] (as *M. alcalina* Fr. var. *chlorinella* J.E. Lange), [S1]. **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); VI; spruce brushwood; litter. **UP:** Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; litter.

***Mycena metata* (Fr.) P. Kumm.; LR:** [S7] (as *M. tenella* (Fr.) Quél.).

#*◆*Mycena mucor* (Batsch) Quél.; PP: Wetlina (Lutowy valley); X; beech forest; *Fagus* litter.

***◆*Mycena niveipes* (Murrill) Murrill; LR:** [S9]. **PP:** W from Zatwarnica (Tworylczyk valley), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki); VI; beech forest, mixed forest; *Fagus* log, wood.

#*◆*Mycena olida* Bres.; SSI(B); PP: W from Zatwarnica (Tworylczyk valley), Bereżki 2 km NW; VI; beech forest; *Fagus* log, wood.

***◆*Mycena olivaceomarginata* (Masse) Masee; RL-R; LR:** [S1]. **PP:** Wetlina Górna (BdNP camping place); VI; meadow; soil. **UP:** Lutowiska; VII; roadside; soil.

?◆*Mycena parabolica* (Fr.) Quél.; LR: [S6,S7,S9]. **Notes:** Doubtful species, differently interpreted by various authors. Not mentioned in current monographs [S205].

***◆*Mycena pelianthina* (Fr.) Quél.; RL-I; LR:** [S1,S5,S6,S7,S9,S55].

#Mycena picta* (Fr.) Harmaja; SSI(B); PP:** Suche Rzeki (W slope of Jawornik Mt); fir-beech forest; basidioma of *Fomes fomentarius* on *Fagus* trunk.

***◆*Mycena polygramma* (Bull.) Gray; LR:** [S5,S6,S9,S12].

!#Mycena polygramma* (Bull.) Gray f. *candida* J.E. Lange; NChL; PP:** Wetlina (Lutowy valley); X; beech forest; soil. **Notes:** The form differing from the nominative one by pure white basidiomata. Specimens seen: 10.10.2009, *leg. & det.* A. Kujawa, fungarium no. BdPN-01156.

*♦ *Mycena pseudocorticola* Kühner; RL-V, SSI(C); LR: [S9]. UP: E slope of Połonina Wetlińska Mt; VII; beech forest; *Fagus* bark.

**Mycena pterigena* (Fr.) P. Kumm.; RL-V; LR: [S7]. PP: Wetlina (Górna Solinka valley, Chyżyszcze); X; among ferns; dead fern petioles.

*♦ *Mycena pura* (Pers.) P. Kumm. f. *pura*; LR: [S1,S5,S6,S7,S9,S13]. PP: Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Czerteżyk Łocentyków), Wetlina Górna (BdNP camping place), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki), Wołosate (N slope of Kiczera Manzowa Mt); VI, VIII; beech forest, spruce forest, deciduous forest, mixed forest; soil, litter. UP: Wola Michowa, Czarna 5 km S, Tarnawa Niżna, Wielka Rawka, W from Bereżki, Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 1 km W; VIII-X; beech forest, deciduous forest, fir-beech forest, shrubs by the stream, beech-hazel shrubs; soil, litter.

##♦ *Mycena purpureofusca* (Peck) Sacc.; RL-V, SSI(C); PP: Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki); mixed forest; ?*Picea* stump.

*♦ *Mycena renati* Quél.; RL-V, SSI(B); LR: [S1,S5,S9,S209]. PP: Wetlina (Górna Solinka valley), W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Czerteżyk Łocentyków), Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley, Buwki), Wetlina (Górna Solinka valley), Wetlina (Górna Solinka valley, Kohutowa Hora), S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne (parking place by the tourist trail to Wielka Rawka Mt), NE slope of Wielka Rawka Mt (Dołhe Pole), Ustrzyki Górne 1 km W, Wołosate (SW slope of Semków Wierszek Mt), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki), Beniowa (Bobrowiec valley); V-VI, VIII; beech forest, deciduous forest, mixed forest, fir-beech forest; *Fagus* logs and branches, wood. UP: Sine Wiry NR; VIII; hornbeam forest; deciduous branch.

*♦ *Mycena romagnesiana* Maas Geest.; NChL; LR: [S210]. UP: Wołosate 1 km S, Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), Wołosate 4 km E (Hawry Forest), Wołosate 7 km E (Bukowska Pass), S from Zatwarnica (Hylaty valley, Izwir), Zatwarnica 3

km S (Hriadnik); IX; beech forest; *Fagus* log. **Notes:** In Poland known only from the Bieszczady Mts.

#*◆*Mycena rosella* (Fr.) P. Kumm.; UP: Wetlina (Górna Solinka valley); X; spruce forest; litter.

***◆*Mycena rubromarginata* (Fr.) P. Kumm.; LR:** [S1]. **UP:** Pszczeliny-Widełki 1.5 km SE (NE slope of Kiczera Mt), NE slope of Wielka Rawka Mt; VIII; fir-beech forest, mixed forest; *Abies* branch, litter.

***◆*Mycena sanguinolenta* (Alb. & Schwein.) P. Kumm.; LR:** [S1,S5,S6,S7,S9]. **PP:** Suche Rzeki (SE slope of Maguryczy Mt), Wetlina (Lutowy valley), Ustrzyki Górne (by the bridge over Wołosaty stream); VI, X; beech forest, mixed forest, deciduous forest; litter, *Fagus* branch. **UP:** Lutowska (nature trail), Wielka Rawka, Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII; beech forest, fir-beech forest; litter.

?*Mycena* sp.; LR: [S9] (as *Mycena filopes* (Bull.) Quél. ss. M.M. Moser), [S7] (as *Mycena filopes* (Bull.) Quél.), [S5] (as *Mycena vitrea* (Fr.) Quél.). **Notes:** In paper [S9] the authors listed *Mycena filopes* (Bull.) Quél. ss. M.M. Moser (“on fallen twigs of *Alnus incana*”), while in [S7] *Mycena filopes* (Bull.) Quél. (“on fallen twigs in beech forest”) was recorded. In 1970 [S5] the authors mentioned “*Mycena vitrea* (Fr.) Quél. [= *M. filopes* ss. Konr. & Maubl.]”. In 1963 [S9] the authors noted, that this species was also mentioned in paper published earlier (1960, [S6]); however, in these paper it was not included. In 1970 [S5] the authors cited only the data from 1963 [S9]. In current monographs of genus *Mycena* (e.g. [S205]) *M. filopes* is mentioned with other author’s combination. The status of *M. vitrea* is not clear, since it is regarded as a synonym of various species belonging to sections *Fragilipedes* (Fr.) Quél. or *Filipedes* (Fr.) Quél.

***◆*Mycena speirea* (Fr.) Gillet; LR:** [S1,S5]. **PP:** Nasiczne (E slope of Magura Nasiczańska Mt), Wetlina (Górna Solinka valley, Chyżyszcze), Bereżki 2 km NW, Dźwiniacz (cemetery), Tarnawa Niżna; VI; roadside, tree clump, beech forest; soil, wood, litter.

***◆*Mycena stipata* Maas Geest. & Schwöbel; LR:** [S5,S6,S7] (as *M. alcalina* (Fr.) Quél.), [S1]. **PP:** W from Zatwarnica (Tworylczyk valley), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Wołosate (N slope of Mińczoła Mt), Beniowa (Szczob), Beniowa (Kiczera

Beniowska); VI-VIII; beech forest, fir-beech forest, fir-spruce forest; *Abies* log, *Fagus* log, litter. **UP:** Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; *Abies* trunk.

*♦ *Mycena stylobates* (Pers.) P. Kumm.; **LR:** [S1,S5,S6,S7,S9]. **PP:** Wetlina (Górna Solinka valley, Jurciowa), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki); VI; beech forest, mixed forest; litter. **UP:** Lutowiska (nature trail), Stuposiany 2 km SW (S slope of Prypiczek Mt), Near Bereżki (NE slope of Kiczera Bereźczańska Mt), Bereżki 2 km NW, NE slope of Wielka Rawka Mt; VIII; beech forest, fir-beech forest; *Fagus* litter.

*♦ *Mycena tintinnabulum* (Fr.) Quél.; **SSI(B); LR:** [S5,S7].

*♦ *Mycena viridimarginata* P. Karst.; **LR:** [S1]. **PP:** Beniowa (Kiczera Beniowska Mt), Beniowa (Szczob); VIII; beech forest, fir-beech forest; wood. **UP:** Tarnawa Bog 1 km SW, between Tarnawa and Muczne (769 m asl pass), SW from Muczne (Jamniczna), Muczne 2 km SW (Jamniczna), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir forest, mixed forest, fir-beech forest; wood, litter, *Abies* trunk and branches.

*♦ *Mycena vitilis* (Fr.) Quél.; **LR:** [S6,S9]. **PP:** W from Zatwarnica (Tworylczyk valley), Suche Rzeki (Czerteżyk Łocentyków), Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, SW slope of Dział Mt), Ustrzyki Górne (N part of the village); V-VI, X; beech forest, spruce-beech forest, mixed forest; litter. **UP:** NE slope of Wielka Rawka Mt; VIII; fir-beech forest; litter.

*♦ *Mycena vulgaris* (Pers.) P. Kumm.; **LR:** [S7]. **PP:** Wetlina Górna (BdNP camping place); spruce forest; litter.

#*♦ *Mycena zephrus* (Fr.) P. Kumm.; **PP:** Wetlina (Górna Solinka valley, Chyżyszcze); X; fir-beech forest; litter.

* *Mycetinis alliaceus* (Jacq.) A. Wilson & Desjardin; **LR:** [S5,S6,S7,S9] (as *Marasmius alliaceus* (Jacq.) Fr. var. *alliaceus* and *M. alliaceus* (Jacq.) Fr. var. *subtilis* J.E. Lange.), [S1,S4,S11,S12,S13,S54] (as *M. alliaceus* (Jacq.) Fr.). **PP:** W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Suche Rzeki (E slope of Maguryczy Mt), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Czerteżyk Łocentyków), Suche Rzeki (Żytyszcze), Nasiczne (E slope of Magura Nasiczańska Mt), Berehy Górne, Wetlina (Górna Solinka valley), Wetlina

(Górna Solinka valley, Mirki), Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Górna Solinka valley, SW slope of Kiczera Mt), Wetlina (Górna Solinka valley, Sołynki Forest), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Bereżki (Kiczera Mt), S from Bereżki (Zwir valley – Polanki), SE from Bereżki (NW slope of Widełki Mt), Ustrzyki Górne (parking place by the tourist trail to Wielka Rawka Mt), NE slope of Wielka Rawka Mt (Dołhe Pole), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate (N slope of Kiczera Leńkowska Mt, Mochnaczka), Jawornik, Wołosate (Polaniec valley), Wołosate 3.5 km E (Horbki), Beniowa (Kiczera Beniowska); V-X; beech forest, fir-beech forest, roadside, spruce-beech forest, mixed forest, shrubs by the stream; wood, soil, *Fagus* log, litter. **UP:** Nasiczne, Ustrzyki Górne 2 km W (by the tourist trail to Wielka Rawka Mt), Rozsypaniec Mt 1 km SW, NE slope of Wielka Rawka Mt, Near Bereżki (NE slope of Kiczera Bereźczańska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW, Muczne (NE slope of Kudriawyński Wierch Mt); VI, X; beech forest, fir-beech forest, mixed forest; litter, *Fagus* wood.

****Mycetinis querceus* (Britzelm.) Antonín & Noordel.; LR:** [S9] (as *Marasmius prasioemus* Fr.), [S12] (as *Marasmius querceus* Britzelm.). **PP:** Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, Chyżyszcze); X: beech forest, fir-beech forest; *Fagus* litter.

◆*Mycetinis scorodonius* (Fr.) A. Wilson & Desjardin; LR: [S12] (as *Marasmius scorodonius* (Fr.) Fr.). **UP:** Sękowiec 1.5 km N; VIII; deciduous forest; deciduous branch.

***◆*Mycoacia aurea* (Fr.) J. Erikss. & Ryvardeen; RL-E; LR:** [S6] (as *Phlebia aurea* (Fr.) Nakasone), ?[S11]. **Notes:** On photograph reproduced in paper by Kacprzyk et al. [S11] another species is presented.

****Mycoacia fuscoatra* (Fr.) Donk; RL-E; LR:** [S5,S6,S7,S9].

****◆*Mycoacia nothofagi* (G. Cunn.) Ryvardeen (Fig. S34); NChL, I++;** **UP:** W from Zatwarnica (Tworylczyk valley); VI; beech forest; *Fagus* log. **Notes:** In Poland known also from Cieszyn [S39] and Przemyśl Foothills [S29].



Fig. S34. Basidiomata of *Mycoacia nothofagi* (G. Cunn.) Ryvarden from the Bieszczady Mts (Jun 25, 2009). Photography by T. Pachlewski.

#**Naucoria bohemica* Velen.; UP: Muczne 1 km SW (NE slope of Bukowe Berdo Mt); VIII; mixed shrubs; soil.

**Naucoria celluloderma* P.D. Orton; LR: [S9] (as *Alnicola alnetorum* (Maire) Romagn.).

*♦*Naucoria escharoides* (Fr.) P. Kumm.; LR: [S9] (as *Alnicola escharoides* Fr.), [S1,S5]. PP: Wetlina (Lutowy valley); X; shrubs by the stream; soil.

#**Naucoria luteolofibrillosa* (Kühner) Pilát; UP: Wołosate; IX; *Alnetum incanae*; soil.

*♦*Naucoria scolecina* (Fr.) Quél.; LR: [S9] (as *Alnicola scolecina* (Fr.) Romagn. and *A. scolecina* (Fr.) Romagn. f. *gracillima* J.E. Lge), [S1,S4,S5]. PP: Wetlina (Górna Solinka valley, Buwki); V; roadside; soil.

**Naematelia encephala* (Pers.) Fr.; LR: [S9,S66] (as *Tremella encephala* Pers.). UP: Beniowa 4.5 km S (Niedźwiedzi valley); VIII; mixed forest; coniferous log (*Stereum* basidiomata).

*♦*Neolentinus adhaerens* (Alb. & Schwein.) Redhead & Ginns (Fig. S36); LR: [S1,S4] (as *Lentinus adhaerens* (Alb. & Schwein.) Fr.). PP: Beniowa (Szczob); VIII; fir-beech forest; wood. UP: S from Zatwarnica (Hylaty valley, Izwir), Hulski valley; IX; beech forest; wood, *Abies* log.

!#**Octavianina lutea* R. Hesse; NChL; PP: Wetlina (Górna Solinka valley, Chyżyszcze); X; fir-beech forest; soil. UP: Muczne (by the road to Tarnawa Niżna); X; beech forest; soil. Notes: In protection plan of Bieszczady NP reported as *Octaviania aculeatospora* (Soehner) Svrcek (= *O. asterosperma* Vittad.); however, after revision of the genus *Octaviania* in Europe by Paz et al. [S211], this species looks to be South European taxon. *O. lutea* R. Hesse has been not mentioned from Poland, but some of the hitherto published Polish localities of *O. asterosperma* may represent this taxon. *O. lutea* differs from *O. asterosperma* by hyphal structure of peridium and the structure of the spines covering spores, which are composed from adherent minor ones. Spores of *O. lutea* are sphaerical, 16–17.5 µm in diameter, covered by conical spines up to 5 µm long. Specimens seen: (i) 29.10.2011, leg. P. Chachuła, det. B. Gierczyk, fungarium no. BGF0002658; (ii) 08.10.2009, leg. A. Kujawa, det. B. Gierczyk, fungarium no. BdPN-01282.

!#*Octaviania mutabilis* E. Bommer & M. Rousseau (Fig. S35); NChL; UP: Muczne 3 km SE (N slopes of Kudriawyński Wierch Mt); X; beech forest; soil. Notes: *Octaviania mutabilis* E. Bommer & M. Rousseau has been not mentioned from Poland, but some of the hitherto published Polish localities of *O. asterosperma* may represent this taxon. *O. mutabilis* differs from *O. asterosperma* by hyphal structure of peridium and the structure of the spines covering spores, which are composed from adherent minor ones. Spores of *O. mutabilis* are sphaerical, 14–16.5 µm in diameter, covered by conical spines up to 3.5 µm long. Specimens seen: 29.10.2011, leg. P. Chachuła, det. B. Gierczyk, fungarium no. BGF0002659.



Fig. S35. Basidiomata of *Octavianina mutabilis* E. Bommer & M. Rousseau from the Bieszczady Mts (Nov 29, 2011). Photography by P. Chachuła.

*♦ *Ossicaulis lignatilis* (Pers.) Redhead & Ginns f. *lignatilis*; RL-V, I++, SSI(B); LR: [S6,S13] (as *Pleurotus lignatilis* Fr.), [S5,S7,S9] (as *Pleurocybella lignatilis* (Pers.) Singer), [S1]. PP: Wetlina (Górna Solinka valley), Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate 3.5 km E (Horbki); VIII-X; beech forest; *Fagus* logs and trunk. UP: Wetlina (E slope of Jawornik Mt), Wołosate 1 km S, Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), Rozsypaniec Mt 1 km SW; IX-X; beech forest; *Fagus* wood.

#* *Ossicaulis lignatilis* (Pers.) Redhead & Ginns f. *albovirens* (Quél.) Ludwig (Fig. S36); NChL; UP: Wołosate 4 km E (Hawry Forest); IX; beech forest; *Fagus* trunk. Notes: In Poland also known from Białowieża NP [S175].



Fig. S36. Basidiomata of *Ossicaulis lignatilis* (Pers.) Redhead & Ginns f. *albovirens* (Qué.) Ludwig in the Bieszczady Mts (Sep 04, 2011). Photography by G. Domian.

*♦ *Oxyporus corticola* (Fr.) Ryvarden; **RL-R; LR:** [S9] (as *Chaetoporus corticola* (Fr.) Bond. & Sing.), [S5]. **Notes:** In paper by Gierczyk et al. [S1] records of *O. corticola* (Fr.) Ryvarden have been listed together with *O. ravidus* (Fr.) Bondartsev & Singer [S5,S7,S9]. Here these species are treated separately.

*♦ *Oxyporus obducens* (Pers.) Donk; **RL-R; LR:** [S5].

*♦ *Oxyporus populinus* (Schumach.) Donk; **LR:** [S1,S5,S6,S9,S45]. **PP:** Wetlina (Górna Solinka valley); VI; beech forest; *Acer pseudoplatanus* log. **UP:** Wołosate, Wołosate 1 km S, Ustrzyki Górne 5 km W (by the tourist trail to Wielka Rawka Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; *Alnetum incanae*, beech forest, deciduous forest; *Fagus* trunk, *Alnus incana* trunk, *Acer* trunk, *Acer pseudoplatanus* trunk.

**Oxyporus ravidus* (Fr.) Bondartsev & Singer; LR: [S5,S7,S9]. Notes: In paper by Gierczyk et al. [S1] records of *O. ravidus* (Fr.) Bondartsev & Singer have been listed together with *O. corticola* (Fr.) Ryvarden [S9]. Here these species are treated separately.

**Panaeolina foeniseccii* (Pers.) Maire; LR: [S9]. PP: S from Bereżki (Zwir valley – Polanki); VI; field road; soil. UP: Lutowiska (Jewish cemetery); VIII; tree clump; soil.

**Panaeolus acuminatus* (Schaeff.) Quél.; LR: [S1,S4,S7,S9]. PP: Suche Rzeki (Rzeka valley), Berehy Górne, Wołosate (horse stud); VI-X; horse stud site, hay landfill, *Alnetum incanae*, meadow; soil, *Equus caballus* dung, decaying hay.

##**Panaeolus antillarum* (Fr.) Dennis (Fig. S37); NChL; PP: Wołosate (horse stud); VI-IX; horse stud site; manure, *Equus caballus* dung. Notes: In Poland also known from Wigry NP [S212].



Fig. S37. Basidiomata of *Panaeolus antillarum* (Fr.) Dennis from the Bieszczady Mts (Sep 09, 2011). Photography by K. Kujawa.

*♦*Panaeolus cinctulus* (Bolton) Sacc.; LR: [S4] (as *P. subbalteatus*). PP: Wołosate (horse stud); VI-IX; horse stud site; manure. UP: Lutowiska 2 km SW, Lutowiska 1.5 km W; VII-VIII; meadow; decaying hay.

**Panaeolus fimicola* (Fr.) Gillet; LR: [S1,S7].

!#**Panaeolus papilionaceus* (Bull.) Quél. var. *capitatocystis* E. Ludw.; NChL; UP: Wołosate (horse stud); VII; horse stud site; manure. Notes: It differs from typical variety by presence of short, distinctly capitate cheilocystidia. Specimens seen: 31.07.2011, leg. A. Kujawa, B. Gierczyk, & det. A. Kujawa, fungarium no. 27/BdPN/31.07.11.

*♦*Panaeolus papilionaceus* (Bull.) Quél. var. *papilionaceus*; RL-R; LR: [S9] (as *P. campanulatus* (L.) Fr.), [S5] (as *P. papilionaceus* (Bull.) Fr. and *P. sphinctrinus* (Fr.) Quél.), [S1] (as *P. sphinctrinus* (Fr.) Quél.), [S4]. PP: Wetlina Górna (BdNP camping place), Bereżki; VI, X; roadside, meadow, spruce forest, stud site; *Equus caballus* dung. UP: Wołosate (horse stud), Lutowiska (near Jewish cemetery), Bereżki (NE slope of Wierch Mt); VII-VIII; horse stud site, meadow; soil, *Equus caballus* dung and manure.

#**Panaeolus papilionaceus* (Bull.) Quél. var. *parvisporus* Ew. Gerhardt; NChL; PP: Tarnawa Niżna (horse stud); VI; horse stud site; soil. UP: Wołosate (horse stud); VII; horse stud site; manure.

**Panaeolus semiovatus* (Sowerby) S. Lundell var. *semiovatus*; RL-R; LR: [S9,S55] (as *Anellaria semiovata* (Sow.) Pears. & Dennis), [S7] (as *P. fimiputris* (Bull.) Quél.). PP: Wetlina Górna (BdNP camping place), Tarnawa (horse stud), Wołosate (horse stud); VI, X; spruce forest, stud site; *Equus caballus* dung.

#*Panellus ringens* (Fr.) Romagn.; UP: Lutowiska 2.8 km SW; VII; fir forest; ?*Abies* branch.

*♦*Panellus stipticus* (Bull.) P. Karst.; LR: [S9,S13] (as *Panus stipticus* (Bull.) P. Karst), [S1,S5,S6,S7]. PP: W from Zatwarnica (Tworylczyk valley), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Rzeka valley), Wetlina (Lutowy valley), Wetlina (Górna Solinka valley), Wetlina (Górna Solinka valley, Jurciowa), Berehy Górne (Berdo Madaganowskie), Ustrzyki Górne 2 km SW (Wierch Mt), W from Wołosate bog (Wielkie Pole), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate 3.5 km E (Horbki); V-X; beech forest, fir-beech forest, hazel shrubs, *Alnetum incanae*; *Fagus* log, *Corylus* branch, *Alnus incana* trunk. UP: Lutowiska, ok. 3.5 km SW, Dwerniczek 2 km N, Wołosate, Wola

Michowa, Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VII-X; beech forest, *Alnetum incanae*, fir-beech forest; *Fagus* branches and trunk, wood.

*♦*Panellus violaceofulvus* (Batsch) Singer; RL-R; LR: [S1,S4]. UP: Lutowiska 6.4 km W; VII; beech forest; branch.

**Parasola galericuliformis* (Watling) Redhead, Vilgalys & Hopple; NChL; LR: [S100]. Notes: In Poland reported from the Bieszczady Mts and Kaczawskie Mts [S33].

#*Parasola kuehnerii* (Uljé & Bas) Redhead, Vilgalys & Hopple; UP: Lutowiska (near Jewish cemetery); VIII; meadow; soil.

**Parasola leiocephala* (P.D. Orton) Redhead, Vilgalys & Hopple; LR: [S100]. UP: SW slope of Tarnica Mt, Lutowiska; VII, IX; *Dentario glandulosae-Fagetum*, lawn; soil.

**Parasola megasperma* (P.D. Orton) Redhead, Vilgalys & Hopple; NChL; LR: [S100].

**Parasola misera* (P. Karst.) Redhead, Vilgalys & Hopple; LR: [S4] (as *Coprinus miser*), [S100].

*♦*Parasola plicatilis* (Curtis) Redhead, Vilgalys & Hopple; LR: [S1] (as *Coprinus plicatilis* (M.A. Curtis) Fr.). UP: Wetlina (Górna Solinka valley); X; roadside; soil.

*♦*Paxillus involutus* (Batsch) Fr. s.l.; LR: [S1,S6,S7,S9,S13,S68]. PP: Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate (N slope of Kiczera Manzowa Mt), SE from Bereżki (NW slope of Widełki Mt), Wołosate (Polaniec valley), Wołosate 3.5 km E (Horbki), Beniowa (Bobrowiec valley); VIII; beech forest, spruce forest, spruce-beech forest; soil. UP: Wetlina (Rowiń Forest), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), W from Bereżki; VIII-X; fir-beech forest, beech forest, spruce forest; soil.

#**Paxillus involutus* (Batsch) Fr. s.s.; UP: S from Zatwarnica (Hylaty valley, Izwir); IX; beech forest; soil.

*♦*Paxillus rubicundulus* P.D. Orton s.l.; RL-R; LR: [S1,S4]. PP: Wetlina (Lutowy valley), Suche Rzeki (Rzeka valley); VI, X; *Alnetum incanae*, shrubs by the stream; soil. UP: Sine Wiry NR (near Wetlina stream); VIII; riparian forest; soil.

**Peniophora aurantiaca* (Bres.) Höhn. & Litsch.; LR: [S4,S9]. PP: W slope of Halicz Mt (seep), S slope of Rozsypaniec Mt (200 m from Bukowska Pass); VIII; *Pulmonario-Alnetum viridis*; *Alnus viridis* branch. UP: Ustrzyki Górne 6 km W (by the tourist trail to Wielka Rawka Mt), Pod Tarnicą Pass; IX; *Pulmonario-Alnetum viridis*, *Athyrio distentifoliae-Sorbetum alnetosum viridae*; *Alnus viridis* branch. Notes: In Poland also known from Lubelszczyzna region [S172].

**Peniophora cinerea* (Pers.) Cooke; LR: [S1,S5,S12]. UP: Lutowiska (Jewish cemetery); VIII; tree clump; *Crataegus monogyna* branch.

*♦*Peniophora incarnata* (Pers.) P. Karst.; LR: [S7,S9,S12]. PP: Ustrzyki Górne (by the bridge over Wołosaty stream); VI; mixed forest; *Alnus* branch.

##*Peniophora limitata* (Chaillat ex Fr.) Cooke; PP: Bereżki; VI; deciduous shrubs; *Fraxinus* branch.

?*Peniophora piceae* (Pers.) J. Erikss.; LR: [S51]. Notes: According to Wojewoda [S51] the specimens determined by Domański et al. [S7] as *P. cinerea* (Fr.) Cke, collected on *Abies* branch, probably represent *P. piceae*.

**Peniophora polygonia* (Pers.) Bourdot & Galzin; LR: [S5].

**Peniophora violaceolivida* (Sommerf.) Masee; LR: [S5].

*♦*Perenniporia narymica* (Pilát) Pouzar; LR: [S213] (as *Poria elongata* Overh.), [S214]. Notes: In Poland also known from Białowieża Primeval Forest [S214].

##*Phaeocollybia arduennensis* Bon; NChL; UP: NE slope of Wielka Rawka Mt; VIII; fir-beech forest; soil. Notes: Species known in Poland also from Kampinos NP [S35].

*♦*Phaeocollybia christinae* (Fr.) R. Heim; RL-V; LR: [S9].

**Phaeocollybia cidaris* (Fr.) Romagn.; LR: [S1]. Notes: In Poland also known from Tatry NP [S215].

#Phaeocollybia festiva* (Fr.) R. Heim; UP:** Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt); IX; beech forest; soil. **Notes:** In Poland also known from Białowieża NP [S19,S216].



Fig. S38. Basidioma of *Phaeocollybia jennyae* (P. Karst.) Romagn. from the Bieszczady Mts (Aug 02, 2011). Photography by K. Kujawa.

!#*Phaeocollybia jennyae* (P. Karst.) Romagn. (Fig. S38); NChL; UP: Lutowiska (nature trail), Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII; spruce forest, fir-beech forest; soil. **Notes:** Cap conical, campanulate to convex with an acute umbo, 1–3 cm in diameter, orange brown, cinnamon brown or reddish brown, smooth, slightly lubricous. Stipe cylindrical, up to 7 cm high, paler at apex, becoming brownish-black at the base, with long, tapering pseudorrhiza. Lamellae first ocher, then rusty brown with paler edge, narrowly attached. Smell and taste raphanoid. Basidia 4-spored. Spores broadly ellipsoid, pale brown, minutely verrucose, 4.5–7 × 3–4.5 µm. Cheilocystidia cylindrical to subclavate, slender. Pleurocystidia absent. Pileipellis a (ixo)cutis, hyphae weakly gelatinized, incrustated. Stipitipellis a cutis. Pseudorrhiza covered by short, clavate cystidia. Clamps absent. Specimens seen: 02.08.2011, leg. A. Kujawa. A. Szczepkowski, B. Gierczyk, K. Kujawa, det. A. Kujawa, fungarium no. 9/BdPN/2.08.11; 19.08.2010, leg. & det. T. Ślusarczyk, fungarium no. 20/TŚ/BdPN/19082010.

◆*Phaeocollybia lugubris* (Fr.) R. Heim; LR: [S1]. UP: Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil. **Notes:** In Poland also known from Karkonosze Mts [S48,S217] and Gorce Mts [S183].

#◆*Phaeolepiota aurea* (Matt.) Konrad & Maubl. (Fig. S39); RL-R; UP: Smerek 3 km S; X; roadside; soil.

*◆*Phaeomarasmius erinaceus* (Fr.) Kühner; RL-R; LR: [S1,S11].

**Phaeotremella mycetophiloides* (Kobayasi) Millanes & Wedin; LR: [S4] (as *Tremella mycetophiloides*). PP: Wetlina (Górna Solinka valley, Chyzyszcze); VI; beech forest; *Aleurodiscus amorphus* ascomata on *Abies* branch.

*◆*Phaeotremella pseudofoliacea* Rea; RL-I; LR: [S1,S5,S6,S9,S12,S66] (as *Tremella foliacea* Pers). PP: Wołosate (Polaniec valley), Suche Rzeki (Rzeka valley), Suche Rzeki (W slope of Jawornik Mt); VI, VIII; beech forest, *Alnetum incanae*; *Fagus* trunk, *Alnus incana* branch.

*◆*Phallus impudicus* L.; LR: [S1,S9,S54]. PP: Nasiczne (E slope of Magura Nasiczańska Mt), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Ustrzyki Górne 2 km NE (SW slope of Kiczera Mt), Wołosate (SW slope of Semków Wierszek Mt), Bukowe Berdo (Połonina

Dydiowska), Wołosate 3.5 km E (Horbki); VI, VIII; beech forest; soil. **UP:** Wola Michowa, Rozsypaniec Mt 1 km SW, Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Berezki 2 km NW, W from Rabe (S slope of Chryszczata Mt by the tourist trail); VIII-X; beech forest, fir-beech forest; soil.



Fig. S39. Basidioma of *Phaeolepiota aurea* (Matt.) Konrad & Maubl. from the Bieszczady Mts (Oct 08, 2010). Photography by K. Kujawa.

*♦ *Phanerochaete filamentosa* (Berk. & M.A. Curtis) Burds.; LR: [S5,S9] (as *Peniophora filamentosa* (Berk. & Curtis) Burt).

* *Phanerochaete laevis* (Pers.) J. Erikss. & Ryvarde; LR: [S5,S7,S9] (as *Peniophora affinis* Burt), [S1,S11].

* *Phanerochaete sordida* (P. Karst.) J. Erikss. & Ryvarde; LR: [S7,S9] (as *Peniophora cremea* (Bres.) Sacc. & Sydow). PP: Tworylczyk valley; VI; beech forest; *Fagus* log.

*♦ *Phanerochaete velutina* (DC.) P. Karst.; LR: [S5,S9] (as *Peniophora velutina* (DC.) Cooke).

*♦ *Phellinus alni* (Bondartsev) Parmasto; LR: [S9] (as *P. igniarius* (L.) Quél. var. *alni* Bond.), [S1,S4]. PP: Dźwiniacz (near cemetery), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Bereżki, Suche Rzeki (Rzeka valley); VI, VIII; abandoned orchard, shrubs by the stream, mixed forest, *Alnetum incanae*; *Alnus incana* trunk, *Malus* trunk. UP: Zatwarnica, Łopienka valley (200 m from Eastern Orthodox church), Lutowska (Jewish cemetery), Beniowa 6 km S, Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Widelki forester's lodge (3 km S); VI-IX; roadside, abandoned village area, tree clump, beech forest, mixed forest; *Malus* trunk, *Fagus* trunk.

*♦ *Phellinus conchatus* (Pers.) Quél.; LR: [S7,S9] (as *P. conchatus* (Pers.) Quél. and *P. conchatus* (Pers.) Quél. f. *syringae* Bond.), [S1]. PP: Berehy Górne, Wetlina (Górna Solinka valley, Sołynki Forest), Wołosate (N slope of Kiczera Manzowa Mt); VI, VIII; beech forest, shrubs by the stream; *Salix* trunk, *Salix caprea* log. UP: Wołosate 1 km S, Bereżki 1 km W; VIII-IX; deciduous forest, mixed forest; *Salix* trunk.

Phellinus contiguus (Pers.) Pat.; PP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Ustrzyki Górne (by the bridge over Wołosaty stream); VI; mixed forest, shrubs by the stream; *Corylus* branch.

*♦ *Phellinus ferruginosus* (Schrad.) Pat.; LR: [S5,S7,S9]. UP: Ustrzyki Górne 1.5 km NW (by the tourist trail to Połonina Caryńska Mt); IX; beech forest; *Salix caprea* branch.

*♦ *Phellinus hartigii* (Allesch. & Schnabl) Pat.; LR: [S7] (as *P. hartigii* (Allesch. & Schnabl) Bond. and *P. hartigii* (Allesch. & Schnabl) Bond. f. *resupinatus* Domań.), [S1,S4,S12]. PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski

valley, SE slope of Błyszczowy Berek), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Czerteżyk Łocentyków), Beniowa (Kiczera Beniowska Mt); VI, VIII; fir-beech forest; *Abies* logs and trunks. **UP:** Lutowiska 7.2 km SW, NE from Hulskie NR, Czarna 5 km S, Zatwarnica 3 km S (Hriadnik), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Muczne (NE slope of Kudriawyński Wierch Mt), S from Cisna (by the tourist trail on Rożki Mt); VII-X; beech forest, deciduous forest, fir-beech forest; *Abies* logs and trunks.

*♦*Phellinus igniarius* (L.) Quél s.l.; **LR:** [S1,S5,S6], [S7] (as *P. igniarius* (L.) Quél. f. *resupinatus* Bres.). **PP:** Wołosate 3.5 km E (Horbki); VIII; beech forest; *Sorbus aucuparia* trunk.

*♦*Phellinus igniarius* (L.) Quél s.s.; **LR:** [S9] (as *P. igniarius* (L.) Quél. f. *salicis* Bond.), [S1]. **PP:** Bereżki, Ustrzyki Górne (by the bridge over Wołosaty stream), Wołosate (N slope of Kiczera Leńkowska Mt, Mochnaczka), Dźwiniacz (near cemetery), Wołosate 2.5 km E (Horbki); VI, VIII; roadside, shrubs by the stream, mixed forest, tree clump; *Salix* trunk, *Salix fragilis* trunk. **UP:** Lutowiska; VIII; roadside; *Salix* trunk.

?♦*Phellinus nigricans* (Fr.) P. Karst.; **RL-I; LR:** [S6,S9] (as *P. igniarius* (L.) Quél. f. *nigricans* (Fr.) Bond.). **Notes:** Species belonging to *Phellinus igniarius* (L.) Quél. complex are strictly associated with host species. *P. nigricans* (Fr.) P. Karst. grows only on *Betula* sp., however Domański et al. [S6,S9] reported it from *Fagus sylvatica* trunks. It is still not certain which species from this complex grows on beeches, it is probably *Phellinus alni* (Bondartsev) Parmasto.

*♦*Phellinus punctatus* (P. Karst.) Pilát; **LR:** [S5,S6,S7,S9]. **PP:** SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Suche Rzeki (Rzeka valley), Wetlina Górna (BdNP camping place), Berehy Górne, Bereżki, S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne (by the bridge over Wołosaty stream), Tarnawa Niżna (Szyryń), near Beniowa (Górny San valley nature trail); VI, VIII; spruce forest, shrubs by the stream, *Alnetum incanae*, mixed forest; *Corylus* branch, *Salix caprea* trunk, *Salix fragilis* trunk, *Salix* branch.

**Phellinus tremulae* (Bondartsev) Bondartsev & P.N. Borisov; RL-E; LR: [S5]. PP: Suche Rzeki (SE slope of Maguryczy Mt), Tarnawa Niżna (Szyryń); VI, VII; shrubs by the stream, deciduous forest; *Populus tremula* trunk.

*♦*Phellinus tuberculosus* (Baumg.) Niemelä; LR: [S7,S9] (as *Phellinus pomaceus* (Pers.) Maire).

#*Phellodon connatus* (Schultz) P. Karst.; RL-E; UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦*Phlebia centrifuga* P. Karst.; RL-E; LR: [S1].

Phlebia chrysocreas (Berk. & M.A. Curtis) Burds.; RL-E; LR: [S7] (as *P. flavocrocea* (Bres. apud Bourdot & Galzin) Donk). Notes: In Poland known only from the Bieszczady Mts.

**Phlebia deflectens* (P. Karst.) Ryvarden; RL-E; LR: [S9] (as *Corticium deflectens* (P. Karst.) P. Karst.). Notes: In Poland also known from vicinity of Międzyrzec Podlaski [S171] and Kampinos NP [S35].

*♦*Phlebia livida* (Pers.) Bres.; RL-E; LR: [S5,S7,S9,S11].

*♦*Phlebia radiata* Fr.; LR: [S5] (as *P. radicata* Fr.), [S1].

*♦*Phlebia rufa* (Pers.) M.P. Christ.; RL-R; LR: [S5,S9] (as *Merulius rufus* Pers.), [S1]. PP: Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Rzeka valley), Wetlina Górna (BdNP camping place); VI; fir-beech forest, *Alnetum incanae*, shrubs by the stream; *Fagus* log, deciduous branch.

*♦*Phlebia tremellosa* (Schrad.) Nakasone & Burds.; LR: [S6,S7,S9] (as *Merulius tremellosus* Pers.), [S1,S12]. PP: Wetlina (Lutowy valley), Wołosate (by Wołosatka); VII, X; shrubs by the stream, beech forest; wood. UP: Wołosate (near water intake), Wołosate 4 km E (Hawry Forest), Widełki forester's lodge (3 km S); IX-X; shrubs, beech forest; wood.

**Phlebiella ardosiacae* (Bourdot & Galzin) K.H. Larss. & Hjortstam; RL-I; LR: [S218] (as *Xenasmatella decipiens* Hjortst. & Ryv.). Notes: In Poland also known from Kampinos NP [S35] and Kaszuby LP [S176].

◆*Phlebiella vaga* (Fr.) P. Karst.; LR: [S7] (as *Cristella sulphurea* (Pers.) Donk). UP: Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; deciduous branch.

**Phlebiopsis ravenelii* (Cooke) Hjortstam; LR: [S6] (as *Peniophora roumeguerii* Bres.), [S9] (as *Phlebia roumeguerii* (Bres.) Donk).

*◆*Phleogena faginea* (Fr. & Palmquist) Link; RL-E, SSI(C); LR: [S4,S219]. PP: Suche Rzeki (W slope of Jawornik Mt); VI; fir-beech forest; *Fagus* trunk. UP: Wetlina (E slope of Jawornik Mt), Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Ustrzyki Górne 5 km W (by the tourist trail to Wielka Rawka Mt), Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt); IX-X; beech forest; *Fagus* trunk and logs, *Acer pseudoplatanus* log.

*◆*Pholiota adiposa* (Batsch) P. Kumm.; RL-R; LR: [S5,S220]. UP: Ustrzyki Górne 4 km W (by the tourist trail to Wielka Rawka Mt), Rozspaniec Mt 1 km SW; IX; beech forest; *Fagus* wood.

*◆*Pholiota astragalina* (Fr.) Singer.; LR: [S1]. PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest; trunk. UP: Ustrzyki Górne 4 km W (by the tourist trail to Wielka Rawka Mt), S from Zatwarnica (Hylaty valley, Izwir), Zatwarnica 3 km S (Hriadnik), Hulski valley; IX; beech forest; *Abies* log.

?◆*Pholiota aurivella* (Batsch.) P. Kumm.; LR: [S6,S12,S13]. Notes: Because of differences in definition of the species by various authors this name has been accepted as *nomen ambiguum*. The taxa referred to this name belong to *P. adiposa* (Batsch) P. Kumm., *P. limonella* (Peck) Sacc. and *P. cerifera* (P. Karst.) P. Karst.

#**Pholiota cerifera* (P. Karst.) P. Karst.; UP: Wołosate; IX; *Alnetum incanae*; *Salix fragilis* log.

**Pholiota elegans* Jacobsson; NChL; LR: [S220]. PP: Wetlina (Lutowy valley); X; spruce forest; soil. Notes: In Poland known only from the Bieszczady Mts.

*◆*Pholiota flammans* (Batsch) P. Kumm.; SSI(B); LR: [S1]. PP: S from Bereżki (Zwir valley – Polanki), Beniowa (Szczob), Beniowa (Kiczera Beniowska); VIII; fir-beech forest; coniferous log, *Abies* wood. UP: Wetlina (Górna Solinka valley), Lutowska (nature trail), Dwerniczek 2 km N, Tarnawa Bog, Ustrzyki Górne 3 km W (by the tourist trail to Wielka

Rawka Mt), Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), Wołosate 2 km NE, Bereżki 1.5 km SE (S slope of Kiczera Mt), S from Zatwarnica (Hylaty valley, Izwir), Zatwarnica 3 km S (Hriadnik), SW from Zatwarnica (Hulski valley), Stuposiany 2 km SW (S slope of Prypiczek Mt); VIII-IX; beech forest, spruce forest, marshy forest, deciduous forest, fir-beech forest; wood, *Abies* log, *Pinus* log.

*♦*Pholiota gummosa* (Lasch) Singer; LR: [S220].

##♦*Pholiota lenta* (Pers.) Singer; PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest; wood remains. UP: Wola Michowa, Wetlina (Górna Solinka valley), Ustrzyki Górne 2.5 km W (NE slope of Wielka Rawka Mt); VIII, X; beech forest, fir-beech forest; wood, soil.

##♦*Pholiota limonella* (Peck) Sacc.; NChL; LR: [S221]. UP: Wetlina, Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), near Pszczeliny (3 km S from Widełki forester's lodge); beech forest; *Abies* log, *Fagus* trunk, soil.

*♦*Pholiota lubrica* (Pers.) Singer; LR: [S220]. PP: Wetlina (Górna Solinka valley, Chyżyszcze); X; fir-beech forest; trunk.

##♦*Pholiota scamba* (Fr.) M.M. Moser; PP: Beniowa (Szczob); VIII; fir-beech forest; soil.

*♦*Pholiota squarrosa* (Weigel) P. Kumm.; LR: [S1,S5,S6,S7,S9,S12]. PP: Ustrzyki Górne 1 km W, Ustrzyki Górne (Terebowiec valley, Hołowaty), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (SW slope of Semków Wierszek Mt), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate (Polaniec valley), Wołosate 3.5 km E (Horbki); VIII-IX; beech forest; soil, *Fagus* logs and branches.

*♦*Pholiota squarrosoides* (Peck) Sacc. (Fig. S40); RL-E, I++, SSI(B); LR: [S53,S220] UP: Hulskie NR borders, SE from Wetlina (Górna Solinka valley), Wetlina (E slope of Jawornik Mt), Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Wołosate 7 km E (Bukowska Pass), near Pszczeliny (2 km SE from Widełki forester's lodge), Wołosate 2 km NE (N slope of Hudów Wierszek Mt), Wetlina (Sękowa Mt, Jawornik range), S from Zatwarnica (Hylaty valley, Izwir), Ustrzyki Górne 1.5 km NW (by the tourist trail to Połonina Caryńska Mt), SW from Zatwarnica (Hulski valley), Rozsypaniec Mt 1 km SW, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Wetlina (Górna Solinka valley,

Moczarne), near Bereżki (NE slope of Kiczera Bereźczańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII-X; beech forest, fir-beech forest; wood, *Abies* log, *Fagus* logs and trunk.



Fig. S40. Basidiomata of *Pholiota squarrosoides* (Peck) Sacc. from the Bieszczady Mts (Sep 07, 2011). Photography by K. Kujawa.

#Pholiota subochracea* (A.H. Sm.) A.H. Sm. & Hesler; NChL; PP:** Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; fir-beech forest; log. **Notes:** In Poland also known from Wigry NP [S156] and Bory Tucholskie NP [S222].

****Pholiota tuberculosa* (Schaeff.) P. Kumm.; RL-V, SSI(B); LR:** [S5].

***♦*Pholiotina aporos* (Kits van Wav.) Cléménçon var. *aporos*; LR:** [S1] (as *Conocybe aporus* Kits van Wav.).

****Pholiotina brunnea* (Watling) Singer; LR:** [S9] (as *Pholiotina intermedia* Singer var. *brunnea* J.E. Lange). **PP:** SE from Bereżki (NW slope of Widełki Mt), NE slope of Wielka Rawka Mt (Dołhe Pole), Wołosate (SW slope of Semków Wierszek Mt); VI-VIII; beech

forest, mixed forest; *Fagus* log. **UP:** Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW; VI-VIII; mixed forest, fir-beech forest; *Fagus* log, soil.

#Pholiotina filaris* (Fr.) Singer; PP:** W from Bereżki; VIII; shrubs by the stream; soil.

#*Pholiotina filipes* (G.F. Atk.) Singer; NChL; UP: Czarna 5 km S, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; deciduous forest, meadow at forest margin; soil. **Notes:** In Poland also known from Orawa-Nowy Targ Basin, Świątokrzyskie district [S95,S223] and Kaczawskie Foothills [S33].

#*♦*Pholiotina intermedia* (A.H. Sm.) Singer; NChL; UP: S from Zatwarnica (Hylaty valley, Izwir); IX; beech forest; *Fagus* log. **Notes:** In Poland known also from Przemyśl Foothills [S29].

***♦*Pholiotina teneroides* (J.E. Lange) Singer; LR:** [S9].

#*Piloderma fallax* (Lib.) Stalpers; UP: between Muczne and Tarnawa (769 m asl pass); VIII; mixed forest; *Abies* trunk.

***♦*Piptoporus betulinus* (Bull.) P. Karst.; LR:** [S1,S9,S14]. **PP:** Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate (Polaniec valley); VIII; beech forest; *Betula pendula* trunk. **UP:** Przysłop Caryński pass; VIII; forest margin; *Betula* trunk.

***♦*Pleurocybella porrigens* (Pers.) Singer (Fig. S41); LR:** [S1,S4]. **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Górna Solinka valley, Chyzyszcze), Beniowa (Szcob); VIII, X; beech forest, spruce forest, fir-beech forest; trunk, *Picea* log. **UP:** Wetlina (Górna Solinka valley), Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), Zatwarnica 3 km S (Hriadnik), SW from Zatwarnica (Hulski valley), between Moczarne and Tarnawa (769 m asl pass); VIII-X; beech forest, mixed forest; trunk, *Abies* log.



Fig. S41. Basidiomata of *Pleurocybella porrigens* (Pers.) Singer from the Bieszczady Mts (Sep 05, 2009). Photography by G. Domian.

*♦*Pleurotus cornucopiae* (Paulet) Rolland; RL-V, SSI(C); LR: [S5].

*♦*Pleurotus dryinus* (Pers.) P. Kumm.; SSI(C); LR: [S5,S12]. UP: Wetlina (Sękowa Mt, Jawornik range); IX; beech forest; *Fagus* trunk.

*♦*Pleurotus ostreatus* (Jacq.) P. Kumm.; LR: [S4,S6,S11].

*♦*Pleurotus pulmonarius* (Fr.) Quél.; RL-V; LR: [S4,S6]. PP: W from Zatwarnica (Tworylczyk valley), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Czerteżyk Łocentyków), S from Bereżki (Zwir valley – Polanki), NE slope of Wielka Rawka Mt (Dołhe Pole), Wołosate (SW slope of Semków Wierszek Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate (N slope of Kiczera Manzowa Mt), Tarnawa Niżna (Szyryń), Wołosate 3.5 km E (Horbki); VII-IX; beech forest, fir-beech forest, *Alnetum incanae*, mixed forest, meadow; *Fagus* log, *Fraxinus* branch, *Alnus incana* trunk.

UP: Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Lutowiska 3.5 km SW, Lipie 2 km S, Wołosate, Wołosate 1 km S, Ustrzyki Górne 2 km W (by the tourist trail to Wielka Rawka Mt), Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), near Pszczeliny (2 km S from Widełki forester's lodge), S from Zatwarnica (Hylaty valley, Izwir), Ustrzyki Górne 1.5 km NW (by the tourist trail to Połonina Caryńska Mt), Rozsypaniec Mt 1 km SW, Zatwarnica, Chmiel 4 km N (SSE slope of Otryt Niżny Mt), S from Wetlina (Rabia Skala Mt), Sine Wiry NR (S slope of Połoma Mt), NNE from Jaworzec (NE slope of Żołobina Mt), SW from Smerek (NE slope of Fereczata Mt), N from Dołżyca (Prykryt), N from Jabłonki (by the tourist trail to Woronikówki NR); VII-IX; beech forest, roadside, deciduous forest; *Fagus* logs, branch and trunk, *Picea* log, wood.

*♦*Plicaturopsis crispa* (Pers.) D.A. Reid; **RL-R; LR:** [S13] (as *Trogia crispa* Fr.), [S4,S6,S9] (as *P. faginea* (Schrad.) Karst.), [S5,S7], [S1] (as *Plicatura crispa* (Pers.) Rea). **PP:** Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wetlina (Górna Solinka valley, Sołynki Forest), Wetlina (Górna Solinka valley, SW slope of Kiczera Mt), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), S from Bereżki (Zwir valley – Polanki), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate (Polaniec valley), Wołosate 3.5 km E (Horbki); VIII, X; beech forest, fir-beech forest, spruce-beech forest; *Fagus* logs and branches. **UP:** Lutowiska 4 km SW, Lutowiska (nature trail), Sękowiec 1.8 km N, Beniowa 6 km S, Wołosate 7 km E (Bukowska Pass), Pszczeliny-Widełki (1 km S from forester's lodge), Bereżki 1.5 km SE (S slope of Kiczera Mt), Zatwarnica 3 km S (Hriadnik), SW from Zatwarnica (Hulski valley), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne (NE slope of Kudriawyński Wierch Mt), Hulskie NR, Wetlina 2 km NE (W slope of Hnatowe Berdo Mt), S from Wetlina (E slope of Jawornik Mt), Sine Wiry NR (S slope of Połoma Mt), N from Dołżyca (Łopiennika Mt), N from Jabłonki (by the tourist trail to Woronikówki NR), Rabe 2.5 km NW (NE slope of Chryszczata Mt), W from Rabe (S slope of Chryszczata Mt by the tourist trail); VII-X; beech forest, deciduous forest, mixed forest, fir-beech forest; *Fagus* logs and branches, *Corylus* branch, deciduous log.

*♦*Pluteus atromarginatus* (Konrad) Kühner; **LR:** [S1], ?[S51]. **PP:** Tworylczyk valley; VI; beech forest; *Fagus* log. **UP:** Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt); IX; beech forest; wood. **Notes:** Wojewoda [S51] reported this species from the Bieszczady Mts citing Domański et al. [S5]; however, it has not been mentioned by these authors.

**Pluteus aurantiorugosus* (Trog) Sacc. (Fig. S42); RL-E; LR: [S11]. UP: Hulskie NR boarders; VIII; beech forest; *Fagus* wood.



Fig. S42. Basidioma of *Pluteus aurantiorugosus* (Trog) Sacc. from the Bieszczady Mts (Aug 06, 2011). Photography by K. Kujawa.

*♦*Pluteus cervinus* (Schaeff.) P. Kumm.; LR: [S6,S7,S13], [S1,S5,S12] (as *P. atricapillus* (Secr.) Sing.). PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Czerteżyk Łocentyków), Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Bereżki (Kiczera), NE slope of Wielka Rawka Mt (Dołhe Pole), Ustrzyki Górne 2 km SW (Wierch Mt), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate 3.5 km E (Horbki), Beniowa (Szczob); VI-X; beech forest, fir-beech forest, mixed forest, deciduous forest; *Fagus* logs and trunks, wood. UP: Połonina Wetlińska Mt, between Muczne and Tarnawa (769 m asl pass), Ustrzyki Górne 5 km W (by the tourist trail to Wielka Rawka Mt), S from Zatwarnica (Hylaty valley, Izwir),

Wola Michowa, Zatwarnica, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VI-X ; beech forest, fir forest, fir-beech forest; wood, *Fagus* trunk.

*♦*Pluteus chrysophaeus* (Schaeff.) Quél.; **RL-R**; **LR**: [S1,S5]. **PP**: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (W slope of Jawornik Mt), SE slope of Połonina Caryńska Mt, NE slope of Wielka Rawka Mt (Dołhe Pole), Wołosate (N slope of Kiczera Manzowa Mt); VI, VIII; beech forest, fir-beech forest, mixed forest; trunk, *Fagus* log. **UP**: Zatwarnica 2 km S (Hylaty valley), Ustrzyki Górne (by the tourist trail to Połonina Caryńska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), S from Wetlina (Rabia Skała Mt); VIII; beech forest, fir-beech forest; wood, *Fagus* logs and trunks.

#*♦*Pluteus cinereofuscus* J.E. Lange; **PP**: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Wetlina (Górna Solinka valley, Jurciowa); VI; beech forest, fir-beech forest; *Fagus* log, wood.

*♦*Pluteus hispidulus* (Fr.) Gillet; **RL-R**; **LR**: [S1]. **PP**: Tworylczyk valley; VI; beech forest; *Fagus* log. **UP**: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Fagus* log.

Pluteus insidiosus* Vellinga & Schreurs; **NChL; **LR**: [S1]. **PP**: Tworylczyk valley; VI; beech forest; *Fagus* log.

#**Pluteus inquilinus* Romagn.; **LR**: ?[S1,S51]. **PP**: Ustrzyki Górne 3.5 km SW (Czuryłowo); beech forest; *Fagus* log. **Notes**: Mentioned from Bieszczady Mts by Wojewoda [S51] and Gierczyk et al. [S1] on the basis of incorrect interpretation of *P. gracilis* (Bres.) Lge., listed by Domański et al. [S9], this name is a synonym of *P. semibulbosus* (Lasch.) Quél.

*♦*Pluteus leoninus* (Schaeff.) P. Kumm. (Fig. S43); **SSI(B)**; **LR**: [S1,S5,S6,S7,S9,S13]. **PP**: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (SE slope of Maguryczy Mt); VI; beech forest, fir-beech forest; *Fagus* logs and trunk. **UP**: borders of Hulskie NR, Hulskie NR, Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt), Wołosate 3.5 km E (Horbki); VIII; beech forest, fir-beech forest; *Fagus* logs and branches.



Fig. S43. Basidioma of *Pluteus leoninus* (Schaeff.) P. Kumm. from the Bieszczady Mts (Aug 19, 2009). Photography by G. Domian.

*♦*Pluteus luctuosus* Boud.; LR: [S1]. PP: Wołosate 3.5 km E (Horbki); VIII; beech forest; *Fagus* log. UP: Wetlina (Górna Solinka valley), Zatwarnica 2 km S (Hylaty valley); VIII, X; beech forest; wood.

*♦*Pluteus nanus* (Pers.) P. Kumm. f. *nanus*; LR: [S1,S6,S7]. PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec Mt), Terebowiec valley; VI; beech forest, fir-beech forest; *Fagus* log. UP: S slope of Prypiczek Mt; VIII; fir-beech forest; *Fagus* branch.

**Pluteus nanus* (Pers.) P. Kumm. f. *griseopus* (P.D. Orton) Vellinga (Fig. S44); LR: [S11]. UP: Dwerniczek 1 km N; VIII; roadside; soil.



Fig. S44. Basidioma of *Pluteus nanus* (Pers.) P. Kumm. f. *griseopus* (P.D. Orton) Vellinga from the Bieszczady Mts (Aug 03, 2011). Photography by K. Kujawa.

#♦*Pluteus pellitus* (Pers.) P. Kumm. (Fig. S45); UP: Lutowiska (Jewish cemetery); VIII; tree clump; soil.



Fig. S45. Basidioma of *Pluteus pellitus* (Pers.) P. Kumm. from the Bieszczady Mts (Aug 02, 2011). Photography by K. Kujawa.

*♦*Pluteus petasatus* (Fr.) Gillet; RL-R, SSI(B); LR: [S1]. UP: “Schron nad Negrylowem” shelter 2 km S; VII; willow-alder shrubs; wood.

*♦*Pluteus phlebophorus* (Ditmar) P. Kumm.; LR: [S1,S6,S9] PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek Mt), Suche Rzeki (E slope of Maguryczy Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate (N slope of Kiczera Manzowa Mt); VI, VIII; beech forest, fir-beech forest; *Fagus* log. UP: NE slope of Wielka Rawka Mt, Wetlina (Górna Solinka valley); VIII, X; beech forest, mixed forest; wood, *Fagus* branch.

*♦*Pluteus plautus* (Weinm.) Gillet; RL-I, SSI(B); LR: [S1,S5,S6], ?[S51]. PP: W from Zatwarnica (Tworylczyk valley), Suche Rzeki (Czerzeżyk Łocentyków); VI; beech forest, fir-beech forest; *Fagus* log. Notes: Wojewoda [S51] cited record of *P. gracilis* (Bres.) Lge. by Domański et al. [S9] twice, once as *P. plautus* (Weinm.) Gillet. and again as *P. inquilinus* Romagn. This mistake was repeated by Gierczyk et al. [S1]. Currently *P. gracilis* (Bres.) Lge.

is considered as a synonym of *P. semibulbosus* (Lasch.) Quél. (on checklist of Polish basidiomycetes *P. semibulbosus* and *P. plautus* have been accepted as conspecific taxa).

#Pluteus podospileus* Sacc. & Cub. f. *minutissimus* Wasser; NChL; UP:** S from Zatwarnica (Hylaty valley, Izwir); IX; beech forest; log.

***♦*Pluteus podospileus* Sacc. & Cub. f. *podospileus*; LR:** [S1]. **PP:** SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Wołosate 3.5 km E (Horbki); VI, VIII; beech forest, fir-beech forest; *Fagus* log. **UP:** Zatwarnica 2 km S (Hylaty valley), Wołosate 1 km S, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; beech forest, fir-beech forest; wood, *Fagus* trunk.

***♦*Pluteus pouzarianus* Singer; LR:** [S1]. **UP:** W from Pszczeliny; VIII; fir-beech forest; trunk. **UP:** Wetlina (Górna Solinka valley), SW from Muczne (Jamniczna); VIII, X; beech forest, fir-beech forest; *Abies* log and trunk.

?♦*Pluteus robertii* (Fr.) Gillet; LR: [S5,S9]. **Notes:** Species not mentioned in current monographs, perhaps synonym of *P. ephebeus* (Fr.) Gillet [S224].

***♦*Pluteus romellii* (Britzelm.) Sacc.; LR:** [S7] (as *P. nanus* (Pers.) Quél. var. *lutescens* Fr.), [S1]. **PP:** W from Zatwarnica (Tworylczyk valley), Wetlina Górna (BdNP camping place); VI; beech forest, shrubs by the stream; wood, *Fagus* log.

***♦*Pluteus salicinus* (Pers.) P. Kumm.; LR:** [S1,S9]. **PP:** S from Zatwarnica (Hylaty valley); VI; fir-beech forest; *Fagus* log.

***♦*Pluteus semibulbosus* (Lasch.) Quél.; LR:** [S9] (as *P. gracilis* (Bres.) Lge.). **Notes:** See notes under *P. plautus* (Weinm.) Gillet and *P. inquilinus* Romagn.

***♦*Pluteus thomsonii* (Berk. & Broome) Dennis; LR:** [S1]. **PP:** Tworylczyk valley; VI; beech forest; *Fagus* log.

***♦*Pluteus umbrosus* (Pers.) P. Kumm. var. *umbrosus*; I++, SSI(B); LR:** [S1,S5]. **PP:** W from Zatwarnica (Tworylczyk valley), Nasiczne (Izvir); VI; beech forest; *Fagus* log. **UP:** Wetlina (Górna Solinka valley), Wołosate 1 km S; IX-X; beech forest; *Fagus* log.

?*Polyporus arcularius* Batsch var. *scabellus* Bourd. & Galz.; LR: [S6,S9] (as *Polyporellus arcularius* (Batsch) Pil. var. *scabellus* Bourd. & Galz.). **Notes:** The authors listed also the

name *P. subarcularius* (Donk) Bond. as a synonym. The current interpretation of these names is not clear and relates to *P. brumalis* (Pers.) Fr., or *P. arcularius* (Batsch) Fr. In paper by Gierczyk et al. [S1] these records were included into *P. brumalis* (Pers.) Fr. The revision of the materials collected in Bieszczady Mt is needed.

*♦*Polyporus badius* (Pers.) Schwein.; SSI(C); LR: [S6,S7,S9] (as *Polyporellus picipes* (Fr.) Karst., *Polyporellus picipes* (Fr.) Karst. f. *carpathicus* Pil. and *P. picipes* Fr. var. *picipes*), [S1,S5]. PP: Tworylczyk valley; VI; beech forest; *Fagus* log. UP: Zatwarnica 3 km S (Hriadnik), Sine Wiry NR (near Wetlina stream); VIII-IX; beech forest, riparian forest; *Fagus* log, deciduous trunk.

*♦*Polyporus brumalis* (Pers.) Fr.; LR: [S6] (as *Polyporellus brumalis* Pers.), [S1,S5,S7]. UP: Smerek 3 km S; X; roadside; wood. Notes: In paper by Gierczyk et al. [S1] among literature data also records of *P. arcularius* Batsch var. *scabellus* Bourd. & Galz. by Domański et al. [S6,S9] were mistakenly listed.

*♦*Polyporus ciliatus* Fr.; LR: [S1]. PP: Wetlina (Górna Solinka valley, Buwki), Wetlina (Górna Solinka valley, by the mouth of Beskidnik stream), Wołosate 3.5 km E (Horbki); V-VI, VIII; beech forest; wood.

*♦*Polyporus melanopus* (Pers.) Fr.; RL-E; LR: [S7]. PP: Beniowa (Szczob); VIII; fir-beech forest; branch.

*♦*Polyporus squamosus* (Huds.) Fr.; LR: [S4,S5,S7,S9,S64]. PP: Wetlina (Górna Solinka valley), Wetlina (Górna Solinka valley, Buwki), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Czerteryk Łocentyków), Bereżki 2 km NW, Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Wołosate N slope of Kiczera Mt; V-VI, VIII; beech-fir forest, mixed forest, deciduous forest, beech forest; *Fagus* log, *Acer pseudoplatanus* log. UP: E slope of Połonina Wetlińska Mt, Nasiczne, Wołosate 1 km S, Rozsypaniec Mt 1 km SW; beech forest; *Fagus* log.

♦*Polyporus tuberaster* (Jacq. ex Pers.) Fr.; SSI(C); LR: [S12].

*♦*Polyporus varius* (Pers.) Fr.; LR: [S6] (as *Polyporellus varius* (Fr.) Karst., *Polyporellus varius* (Fr.) Karst. f. *nummularius* (Bull.) Fr. and *Polyporellus varius* (Fr.) Karst. var. *podlachicus* (Bres.) Pil.), [S5,S7,S9] (as *P. varius* Pers., *P. varius* Pers. var. *podlachicus* (Bres.) Bond., *P. varius* Pers. var. *nummularius* (Bull.) Karst. and *P. varius* Pers. var. *elegans*

(Fr.) Gillet & Lucand), [S1,S12]. **PP:** W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Suche Rzeki (W slope of Jawornik Mt), Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley), Bereżki 2 km NW, Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), NE slope of Wielka Rawka Mt (Dołhe Pole), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (SW slope of Semków Wierszek Mt), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate 3.5 km E (Horbki), Beniowa (Szczob); V-VIII; beech forest, fir-beech forest, mixed forest; *Fagus* logs and branches. **UP:** Nasiczne, Lutowiska 6.4 km W, Tarnawa Bog 2.5 km SW, Hulskie NR borders, near Pszczeliny (2 km S from Widelki forester's lodge), Bereżki 1.5 km SE (S slope of Kiczera Mt), near Bereżki (NE slope of Kiczera Bereźczańska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Widelki 1 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VII-X; deciduous forest, mixed forest, fir-beech forest, beech forest; *Fagus* logs and branches.

****Porothelium fimbriatum* (Pers.) Fr.; RL-E; LR:** [S9] (as *Stromatoscypha fimbriatum* (Pers.) Donk).

*♦***Porphyrellus porphyrosporus* (Fr.) E.-J. Gilbert; RL-R; LR:** [S1,S7], [S55] (as *P. pseudoscaber* (Secr.) Sing.). **PP:** Beniowa (Szczob); VIII; fir-beech forest; soil. **UP:** Wołosate 1 km S, S from Zatwarnica (Hylaty valley, Izwir), Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; beech forest, fir-beech forest; soil.

*♦***Postia alni* Niemelä & Vampola; LR:** [S51]. **PP:** Wołosate 3.5 km E (Horbki); VIII; beech forest; deciduous branch. **Notes:** According to Wojewoda [S51] the records of *P. caesia* (Schrad.) P. Karst. observed on deciduous trees (beech, hazel), mentioned by Domański et al. ([S6] as *Leptoporus caesius* (Schrad.) Quél. f. *dealbatus* Pil.; [S9] as *Tyromyces caesius* (Schrad.) Murr., *T. caesius* (Schrad.) Murr. f. *resupinatus* Pil. and *T. caesius* (Schrad.) Murr. f. *dealbatus* Pil.; [S5] as *T. caesius* (Schrad.) Murr.) correspond to *P. alni* Niemelä & Vampola. Wojewoda [S51] mentioned also data by Domański et al. from 1967 [S7] (as *T. caesius* (Schrad.) Murr.); however, the authors reported it from fir logs; therefore, it belongs to *P. caesia* (Schrad.) P. Karst. s.str.

*♦*Postia caesia* (Schrad.) P. Karst.; LR: [S6] (as *Leptoporus caesius* (Schrad.) Quél.), [S5,S7,S9] (as *Tyromyces caesius* (Schrad.) Murr.; only records from coniferous substrata), [S1,S4] (as *Oligoporus caesius* (Schrad.) Gilb. & Ryvarden). PP: Wetlina (Górna Solinka valley, Sołynki Forest), Beniowa (Szczob); VIII, X; fir-beech forest; *Abies* log and trunk. UP: Pszczeliny (Widelki Mt), Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt); IX-X; beech forest; *Abies* wood. Notes: In paper by Gierczyk et al. [S1] the records by Domański et al. [S6,S9] were omitted.

Postia floriformis (Quél.) Jülich; RL-V; LR: [S7] (as *Tyromyces floriformis* (Quél.) Bond. & Sing.).

♦*Postia stiptica* (Pers.) Jülich; LR: [S12] (as *Oligoporus stypticus* (Pers.) Gilb. & Ryvarden).

*♦*Postia tephroleuca* (Fr.) Jülich; LR: [S5,S7] (as *Tyromyces lacteus* (Fr.) Murr.), [S1,S12] (as *Oligoporus tephroleucus* (Fr.) Gilb. & Ryvarden). PP: Ustrzyki Górne 2 km NE (N slope of Kiczera Mt); VIII; beech forest; *Fagus* wood.

*♦*Protomerulius caryae* (Schwein.) Ryvarden; RL-E; LR: [S6] (as *Poria canescens* Karst.), [S9,S66] (as *Aporpium caryae* (Schw.) Teixeira & Rogers).

!#*Psathyrella almerensis* Kits van Wav.; NChL; UP: Lutowiska 2 km W; VIII; meadow; decaying hay. Notes: Caps 1–3 cm in diameter, campanulate to convex, first dark reddish brown, then ocher brown to cinnamon brown, hygrophanous, striate, with veil remains as white dense floccules and fibrils at margin. Stipe cylindrical, whitish, up to 4 cm high. Lamellae adnate, distant, brown, with reddish edge. Basidia 4-spored. Spores ovoid to ellipsoid, sometimes subphaseoliform, brown, smooth, with germ pore, 8–11.5 × 5–6.5 µm. Cheilocystidia dimorphic: numerous clavate elements and scattered utriform or lageniform, with obtuse apex. Pleurocystidia utriform, lageniform or broadly fusiform, with obtuse apex. Veil elements cylindrical. Pileipellis a hymeniderm. Stipitipellis a cutis. Clamps present. Specimens seen: 03.08.2011, leg. & det. B. Gierczyk, fungarium no. 1/BdPN/3.08.11.

*♦*Psathyrella candolleana* (Fr.) Maire; LR: [S13] (as *Hypholoma candolleianum* Fr.), [S1,S5,S6,S9]. PP: Nasiczne (E slope of Magura Nasiczańska Mt); VI; clearing; wood remains. UP: between Tarnawa and Muczne (769 m asl pass), Zatwarnica 2 km S (Hylaty valley), Ustrzyki Górne 2 km W (by the tourist trail to Wielka Rawka Mt), Widelki forester's

lodge 1.5 km S, Bereżki 1.5 km SE (S slope of Kiczera Mt), Zatwarnica 3 km S (Hriadnik), Terebowiec valley, Ustrzyki Górne 2.5 km W (NE slope of Wielka Rawka Mt); VIII-IX; beech forest, deciduous forest, *Alnetum incanae*, roadside; soil, litter, wood remains.

**Psathyrella caniceps* (Kauffman) A.H. Sm.; RL-E; LR: [S9].

*♦*Psathyrella corrugis* (Pers.) Konrad & Maubl.; RL-R; LR: [S1] (as *P. gracilis* (Fr.) Quél. f. *gracilis*).

**Psathyrella cotonea* (Quél.) Konrad & Maubl.; LR: [S1].

#*Psathyrella fibrillosa* (Pers.) Maire; UP: Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VIII; beech forest, fir-beech forest; soil.

*♦*Psathyrella fusca* (Schumach.) A. Pearson; LR: [S1]. PP: Suche Rzeki (W slope of Jawornik Mt); fir-beech forest; soil.

Psathyrella longicauda P. Karst.; RL-E; LR: [S225].

##*Psathyrella lutensis* (Romagn.) Bon; NChL; UP: Zatwarnica 2 km S (Hylaty valley); VIII; roadside; soil. Notes: Species in Poland also known from Kampinos NP [S35] and Kaczawskie Mts [S33].

##♦*Psathyrella obtusata* (Pers.) A.H. Sm.; UP: Hulski valley; VI; mixed forest; litter.

*♦*Psathyrella piluliformis* (Bull.) P.D. Orton; LR: [S1]. PP: Wetlina Górna (BdNP camping place), W from Wołosate bog (Wielkie Pole), Wołosate (N slope of Kiczera Mt, Za Potok); VI, VIII; beech forest; *Fagus* logs and trunks. UP: Wołosate 2 km NE (N slope of Hudów Wierszek Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; beech forest, fir-beech forest; *Fagus* logs and trunks.

**Psathyrella potteri* (Fr.) A.H. Sm.; LR: [S1] (as *P. prona* (Fr.) Gillet f. *cana* Kits van Wav.). UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; grassy roadside; soil.

*♦*Psathyrella prona* (Fr.) Gillet; LR: [S9] (as *P. atomata* (Fr.) Gill.), [S7] (as *P. atoma* (Fr.) Gill.). PP: Wołosate (horse stud); VI; horse stud site; manure.

#**Psathyrella pseudogracilis* (Romagn.) M.M. Moser; UP: Lutowiska (BdNP educational center), Zatwarnica 2 km S (Hylaty valley), Pszczeliny; VIII; lawn, roadside, near the stream; soil.

#*Psathyrella senex* (Peck) A.H. Sm.; PP: Dźwiniacz (cemetery); VI; tree clump; soil. Notes: In Poland also known from Niepołomice Forest [S185] and Kampinos NP [S35].

**Psathyrella sphagnicola* (Maître) J. Favre; LR: [S1,S4].

#*Psathyrella tenuicula* (P. Karst.) Örstadius & Huhtinen; NChL; UP: Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Sus* dung.

*♦*Pseudoclitocybe cyathiformis* (Bull.) Singer; SSI(B); LR: [S13] (as *Clitocybe cyathiformis* (Bull.) Quél.), [S6,S11]. PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wetlina (Górna Solinka valley, Chyzyszcze); X; fir-beech forest, roadside; soil. UP: Wetlina (Górna Solinka valley), S from Zatwarnica (Hylaty valley, Izwir), Wetlina (Rowiń Forest); IX-X; beech forest; soil.

*♦*Pseudocraterellus undulatus* (Pers.) Rauschert; LR: [S1]. PP: Wetlina (Górna Solinka valley, Sołynki Forest); X; fir-beech forest; soil. UP: Wetlina (E slope of Jawornik Mt), Hulskie NR borders, SW from Zatwarnica (Hulski valley), Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW; VIII, X; beech forest, fir-beech forest; soil.

?*Pseudohiatula conigena* (Pers.); LR: [S7]. Notes: According to Wojewoda [S51] it is a synonym of *Strobilurus stephanocystis* (Hora) Singer, while according to MycoBank [S18] – a synonym of *Baeospora myosura* (Fr.) Singer.

*♦*Pseudohydnum gelatinosum* (Scop.) P. Karst; LR: [S1,S4,S5,S6,S7,S9,S12,S54,S66]. PP: Wetlina (Górna Solinka valley, Chyzyszcze), SE from Bereżki (NW slope of Widełki Mt), NE slope of Wielka Rawka Mt (Dołhe Pole), Beniowa (Szczob), Beniowa (Kiczera Beniowska), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt); VI-X; mixed forest, fir-beech forest, beech forest; trunk, *Abies* logs and trunks. UP: Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Przysłup 1.5 km SW, Lutowiska 2.5 km SW, Lutowiska

(nature trail), Dwerniczek 2 km N, Beniowa 6 km S, between Muczne and Tarnawa (769 m asl pass), Czarna 5 km S, Tarnawa Bog 1 km SW, Zatwarnica 2 km S (Hylaty valley), Ustrzyki Górne 5 km W (by the tourist trail to Wielka Rawka Mt), Widełki forester's lodge 1.5 km S, SW from Zatwarnica (Hulski valley), Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Dwerniczek 3.5 km N (Trohaniec Mt); VI-IX; beech forest, mixed forest, deciduous forest, fir forest, fir-beech forest, clearing; coniferous trunk, *Abies* trunk, wood.

***Pseudomerulius aureus* (Fr.) Jülich; RL-R; LR: [S7] (as *Merulius aureus* Fr.).**

***Pseudotomentella mucidula* (P. Karst.) Svrček; LR: [S7]. Notes:** In Poland also known from Gorce Mts [S183] and Kaszuby LP [S176].

****Pseudotremella moriformis* (Berk.) X.Z. Liu, F.Y. Bai, M. Groenew. & Boekhout; RL-E; LR: [S4,S66] (as *Tremella moriformis* Sm. ex Purt.). Notes:** In Poland reported only from the Bieszczady Mts.

##*Psilocybe cyanescens* Wakef.; NChL; PP: Wołosate (horse stud); VI; horse stud site; manure. **Notes:** Species in Poland also known from Babia Góra NP [S226].

***♦*Psilocybe semilanceata* (Fr.) P. Kumm.; LR: [S4]. UP:** Wołosate, Kalnica, Wetlina (Górna Solinka valley), Muczne 1 km SW (NE slope of Bukowe Berdo Mt); VIII, X; meadow; soil.

***♦*Pycnoporellus fulgens* (Fr.) Donk; RL-V, SSI(A); LR: [S1,S227]. UP:** SW from Zatwarnica (Hulski valley), SW from Muczne (Jamniczna); VIII-IX; beech forest, fir-beech forest; *Abies* logs and trunks.

***♦*Pycnoporus cinnabarinus* (Jacq.) P. Karst.; RL-R, SSI(C); LR: [S6] (as *Trametes cinnabarina* (Jacq.) Fr.), [S1,S7,S9,S12,S228]. PP:** Wetlina (Górna Solinka valley, Sołyński Forest), Wołosate (SW slope of Semków Wierszek Mt); VIII, X; beech forest, willow shrubs; *Fagus* log, *Salix* branch. **UP:** Lutowiska (nature trail), Dwerniczek 1.5 km N, Dwerniczek 2.5 km N, Beniowa 4 km S (Niedźwiedzi valley), Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Muczne (NE slope of Kudriawyński Wierch Mt), Hulskie NR, Chmiel 4 km N (S slope of Otryt Niżny Mt); VIII-X; beech forest, fir-beech forest, deciduous forest, spruce forest; *Fagus* branch and log, *Abies* branch.

?♦*Radulomyces confluens* (Fr.) M.P. Christ.; LR: [S5,S7] (as *Corticium confluens* (Fr.) Fr.). **Notes:** According to Wojewoda [S89] the specimens from the Bieszczady Mts have been determined incorrectly and represent *Clavulicium macounii* (Burt) J. Erikss.

**Ramaria abietina* Fr.; LR: [S7]. UP: Wetlina (Górna Solinka valley); X; roadside (under spruce); soil.

*♦*Ramaria aurea* (Schaeff.) Quél.; RL-E; LR: [S13] (as *Clavaria aurea* Schaeff.), [S5,S6,S7].

#**Ramaria bataillei* (Maire) Corner (Fig. S46); NChL; UP: Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt); IX; beech forest; soil. **Notes:** In Poland also known from Bory Tucholskie NP [S222] and Przemyśl Foothills [S29].



Fig. S46. Basidioma of *Ramaria bataillei* (Maire) Corner from the Bieszczady Mts (Sep 03, 2011). Photography by G. Domian.

#*Ramaria eumorpha* (P. Karst.) Corner; UP: Lutowiska (nature trail); VIII; mixed forest; soil.

*♦*Ramaria flava* (Schaeff.) Quél.; RL-R; LR: [S1,S5,S7,S9].

#*♦*Ramaria flavescens* Schaeff. ex R.H. Petersen; NChL; UP: Wetlina (Górna Solinka valley), S from Zatwarnica (Hylaty valley, Izwir); IX-X; beech forest; soil.

*♦*Ramaria formosa* (Pers.) Quél.; RL-R; LR: [S13] (as *Clavaria formosa* Pers.), [S6]. UP: Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt), NE slope of Wielka Rawka Mt; VIII; fir-beech forest, mixed forest; soil.

♦*Ramaria pallida* (Schaeff.) Ricken; LR: [S7] (as *R. mairei* Donk).

#*Ramariopsis crocea* (Pers.) Corner; NChL; UP: between Smerek and Kalnica; X; meadow; soli.

*♦*Resinicium bicolor* (Alb. & Schwein.) Parmasto; LR: [S7,S9] (as *Odontia bicolor* (Alb. & Schw.) Quél.).

**Resupinatus applicatus* (Batsch) Gray; LR: [S6] (as *Pleurotus applicatus* Batsch, [S9]).

**Resupinatus trichotis* (Pers.) Singer; LR: [S9] (as *R. applicatus* (Batsch) Gray f. *rhacodium* (Berk. & Curt.) Pil.). UP: Hulskie NR 2 km W (near abandoned quarry), Dwernik 2 km N (near Chata Socjologa tourist shelter); roadside, beech forest; *Corylus* branch, *Fagus* branch.

*♦*Rhodocollybia butyracea* (Bull.) Lennox f. *asema* (Fr.) Antonín, Halling & Noordel.; LR: [S1]. PP: Wetlina (Górna Solinka valley, Chyzyszcze), Wołosate 3.5 km E (Horbki); VIII, X; beech forest, fir-beech forest; soil. UP: Wola Michowa, Wetlina (Górna Solinka valley); X; beech forest; soil, wood.

*♦*Rhodocollybia butyracea* (Bull.) Lennox f. *butyracea*; LR: [S6,S7,S9,S12,S13] (as *Collybia butyracea* (Bull.) Quél.). UP: Pszczeliny-Widelki 1.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 1 km W; VIII; fir-beech forest; litter.

*♦*Rhodocollybia maculata* (Alb. & Schwein.) Singer var. *maculata*; LR: [S1]. PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; spruce forest; soil. UP: S from Zatwarnica (Hylaty valley, Izwir), Hulski valley; IX; beech forest; soil.

*♦*Rhodocollybia prolixa* (Hornem.) Antonín & Noordel. var. *distorta* (Fr.) Antonín, Halling & Noordel.; LR: [S1].

**Rhodocollybia prolixa* (Hornem.) Antonín & Noordel. var. *prolixa*; RL-V; LR: [S1]. Notes: In Poland also known from Las Piwnicki NR [S229] and Świętokrzyskie Mts [S77].

**Rhodocybe gemina* (Paulet) Kuyper & Noordel.; NChL; LR: [S1].

*♦*Rickenella fibula* (Bull.) Raitelh.; LR: [S6,S9] (as *Omphalina fibula* Bull.), [S7] (as *Mycena fibula* (Bull.) Sing.), [S5] (as *Gerronema fibula* (Bull.) Sing.), [S1] PP: W from Zatwarnica (Tworylczyk valley), Wołosate (SW slope of Semków Wierszek Mt); VI, VIII; beech forest; *Fagus* log and trunk. UP: Lutowiska (nature trail), Dwerniczek 2 km N, Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; beech forest, fir-beech forest; mosses, soil.

*♦*Rickenella swartzii* (Fr.) Kuyper; LR: [S7,S9] (as *Mycena swartzii* (Fr.) Sing.), [S5] (as *Gerronema setipes* (Fr.) Sing.), [S1] (as *R. setipes* (Fr.) Raitelh.). PP: W from Zatwarnica (Tworylczyk valley), Suche Rzeki (W slope of Jawornik Mt), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki); VI, VIII; beech forest, fir-beech forest, mixed forest; mosses, *Fagus* log. UP: Wola Michowa, Bereżki 2 km NW; VIII, X; fir-beech forest, larch forest; mosses, soil.

*♦*Rigidoporus crocatus* (Pat.) Ryvarden; RL-E; LR: [S6,S13] (as *Poria nigrescens* Bres.), [S7] (as *Podoporia nigrescens* (Bres.) Bondartsev), [S5] (as *Rigidoporus nigrescens* (Bres.) Donk), [S1]. PP: Suche Rzeki (Żytyszczce), Wołosate 2.5 km E (Walkowe Berdo), Beniowa (Szczob), Zatwarnica; beech forest, fir-beech forest; *Abies* log, *Fagus* log. UP: Dwerniczek 2.5 km N; VIII; beech forest; *Abies* log.

*♦*Rigidoporus sanguinolentus* (Alb. & Schwein.) Donk; LR: [S1,S6] (as *Physisporinus sanguinolentus* (A. & S.) Pil.), [S7,S9] (as *Podoporia sanguinolenta* (Alb. & Schw.) Höhn.), [S5].

*♦ ***Rigidoporus vitreus* (Pers.) Donk; RL-R; LR:** [S1,S6] (as *Physisporinus vitreus* (Fr.) Karst.), [S9] (as *Podoporia vitrea* (Fr.) Donk.), [S5]. **PP:** S from Bereżki (Zwir valley – Polanki), Wołosate (SW slope of Semków Wierszek Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Wołosate (N slope of Kiczera Manzowa Mt), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt); VIII-IX; beech forest, fir-beech forest; *Fagus* trunk, *Abies* trunk, *Acer* log. **UP:** Wołosate 1 km S, Pszczeliny 3 km W (SE slope of Magura Stuposiańska Mt), Chmiel 4 km N (SSE slope of Otryt Niżny Mt), Wołosate 3.5 km E (Horbki), S from Wetlina (NE slope of Jawornik Mt), NNE from Jaworzec (NE slope of Żołobina Mt, near Szczycisko pass), N from Jabłonki (by the tourist trail to Woronikówki NR); VIII-IX; beech forest, fir-beech forest; litter, trunk, roots, soil, *Fagus* trunk base, *Abies* trunk base.

#* ***Rimbachia arachnoidea* (Peck) Redhead; PP:** Tarnawa Niżna; VI; riparian forest; mosses on *Salix* bark.

* ***Rimbachia bryophila* (Pers.) Redhead; LR:** [S1,S4].

?♦ ***Ripartites helomorphus* (Fr.) P. Karst.; LR:** [S7,S9]. **Notes:** The “small” species, varieties and forms described within *R. tricholoma* need molecular studies for establishing their taxonomic values.

*♦ ***Ripartites tricholoma* (Alb. & Schwein.) P. Karst. s.l.; LR:** [S9]. **PP:** Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Wetlina (Lutowy valley); VI, X; beech forest; soil. **UP:** Hylaty valley, Wola Michowa, Czarna 5 km S, Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); beech forest, fir-beech forest, tree clump; soil.

*♦ ***Roridomyces rorida* (Scop.) Rexer; LR:** [S1,S7,S9] (as *Mycena rorida* (Fr.) Quél.). **PP:** Wetlina (Górna Solinka valley); V; beech forest; litter.

#* ***Rugosomyces chryserveron* (Bull.) Bon; PP:** Beniowa (Szczob); VIII; beech forest; *Picea* log.

* ***Russula adusta* (Pers.) Fr.; LR:** [S1,S7,S9].

*♦ ***Russula aeruginea* Lindblad; LR:** [S13]. **PP:** Wołosate (N slope of Kiczera Leńkowska Mt, Mochnaczka); VIII; roadside; soil.

♦ ***Russula albonigra* (Krombh.) Fr.; LR:** [S1,S6,S13]. **UP:** Pszczeliny 2 km W (SE slope of Kosowiec Mt); VIII; fir-beech forest; soil.

**Russula alnetorum* Romagn.; RL-V; LR: [S230] (as *R. pumila* Rouzeau & Massart). PP: Połonina Caryńska, W slope of Halicz Mt (seep); *Pulmonario-Alnetum viridis*; soil.

*♦*Russula alutacea* (Pers.) Fr. s. Melzer & Zvára; RL-E; LR: [S6,S13].

*♦*Russula amethystina* Quél.; LR: [S4]. UP: Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Widełki 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦*Russula anthracina* Romagn.; NChL; LR: [S1]. UP: Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

♦*Russula aurea* Pers.; LR: [S7] (as *R. aurata* With.). UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

**Russula badia* Quél.; LR: [S1]. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦*Russula cavipes* Britzelm.; LR: [S1,S4]. PP: vicinity of Muczne (Jamniczna); VIII; fir-beech forest; soil. UP: Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil.

*♦*Russula cyanoxantha* (Schaeff.) Fr.; LR: [S1,S4,S5,S6,S7,S9,S13]. PP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (E slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (SE slope of Maguryczy Mt), Nasiczne (E slope of Magura Nasiczańska Mt), Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley, Sołynki Forest), Berehy Górne 1 km E (Snozy Forest), Wołosate (SW slope of Szeroki Wierch Mt, Zwirce and Bukowinki), Wołosate 3.5 km E (Horbki), Wołosate (N slope of Kiczera Leńkowska Mt, Mochnaczka); VI-X; beech forest, mixed forest, fir-beech forest, roadside; soil. UP: W od Pszczelin, Ustrzyki Górne 5 km W (by the tourist trail to Wielka Rawka Mt), near Pszczeliny (3 km S from Widełki forester's lodge), Berehy Górne (by the tourist trail to Połonina Caryńska Mt), Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII; beech forest, fir-beech forest; soil.

**Russula decolorans* (Fr.) Fr.; LR: [S1].

*♦*Russula delica* Fr.; LR: [S7]. PP: Wołosate 3.5 km E (Horbki); VIII; beech forest; soil.

*♦*Russula emetica* (Schaeff.) Pers. s.l.; LR: [S1,S4,S5,S6,S13].

?*Russula emetica* Fr. f. *fagicola*; LR: [S9]. Notes: Form not mentioned in current monographs, perhaps a synonym of *R. mairei* Singer [S231,S232,S233].

*♦*Russula fellea* (Fr.) Fr.; LR: [S1,S5]. PP: Wetlina (Górna Solinka valley, Sołyński Forest), Wetlina (Górna Solinka valley, Chyżyszcze), Wetlina (Górna Solinka valley, SW slope of Kiczera Mt), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Beniowa (Szczob); VIII, X; fir-beech forest; soil. UP: Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII; beech forest, fir-beech forest; soil.

*♦*Russula foetens* Pers.; LR: [S1,S9].

*♦*Russula fragilis* (Pers.) Fr.; LR: [S1,S12].

#**Russula fuscorubroides* Bon; NChL; UP: Muczne 0.5 km SW (Jamniczna); VIII; beech-fir forest; soil. Notes: In Poland known also from Białowieża Primeval Forest [S46].

**Russula grata* Britzelm. var. *fragrans* (Romagn.) Kuyper & Vuure; NChL; LR: [S1]. PP: Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate 3.5 km E (Horbki), Beniowa (Szczob); VIII; beech forest; soil. Notes: In Poland known only from the Bieszczady Mts.

*♦*Russula grata* Britzelm. var. *grata*; LR: [S5,S6,S7,S9,S13] (as *R. laurocerasi* Melzer), [S1]. UP: Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW; VIII; beech forest, fir-beech forest; soil.

*♦*Russula heterophylla* (Fr.) Fr.; LR: [S9].

**Russula illota* Romagn.; NChL; LR: [S1]. UP: Ustrzyki Górne 3 km SW (slope of Wielka Rawka Mt), SW from Muczne (Jamniczna), Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; beech forest, fir-beech forest; soil. Notes: In Poland also known from Gorce Mts [S183].

*♦ *Russula lepida* Fr.; LR: [S9], [S45] (as *R. rosacea* Pers. ex S.F. Gray).

?*Russula lutea* (Huds.) Gray; LR: [S5,S6,S9]. Notes: Name differently interpreted by various authors, perhaps synonym of *R. vitellina* Gray or some species of section *Chamaeleontine* Singer, emend. Romagn. [S232].

**Russula mairei* Singer; LR: [S1,S4]. UP: Near Bereżki (NE slope of Kiczera Bereżczańska Mt), NE slope of Wielka Rawka Mt, Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII; fir-beech forest, beech forest; soil.

Russula mustelina Fr.; LR: [S7].

*♦ *Russula nigricans* (Bull.) Fr.; LR: [S1,S4,S6,S7,S9,S13]. PP: Wetlina (Lutowy valley), Ustrzyki Górne 2 km SW (Wierch Mt), Ustrzyki Górne 3.5 km SW (Czuryłowo), Tarnawa Niżna (Szyryń), Wołosate 3.5 km E (Horbki); beech forest, shrubs by the stream; soil. UP: Ustrzyki Górne 6 km W (by the tourist trail to Wielka Rawka Mt), Near Bereżki (NE slope of Kiczera Bereżczańska Mt), NE slope of Wielka Rawka Mt, Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII-IX; fir-beech forest, beech forest, alder-rowan shrubs; soil.

*♦ *Russula ochroleuca* Pers.; LR: [S1,S4,S5,S6,S9,S12,S13]. PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt), Ustrzyki Górne 2 km SW (Wierch Mt), Wołosate 3.5 km E (Horbki); VIII, X; beech forest; soil. UP: Near Bereżki (NE slope of Kiczera Bereżczańska Mt), NE slope of Wielka Rawka Mt, Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII; beech forest, fir-beech forest; soil.

*♦ *Russula olivascens* Fr. s. *Romagnesi non Fries*; LR: [S1].

#*♦ *Russula puellaris* Fr.; UP: Stuposiany 2 km SW (S slope of Prypiczek Mt), SW from Muczne (Jamniczna); VIII; fir-beech forest; soil.

*♦ *Russula queletii* Fr.; LR: [S1,S9]. PP: Wetlina Górna (BdNP camping place); spruce forest; soil. UP: Wetlina (Górna Solinka valley); X; spruce brushwood; soil.

##♦ *Russula raoultii* Quél.; UP: SW from Muczne (Jamniczna), NE slope of Wielka Rawka Mt, Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW; VIII; beech-fir forest; soil.

##*Russula rhodopus* Zvára; RL-R; PP: Wetlina (Górna Solinka valley); VII; mixed forest; soil.

#♦ *Russula risigallina* (Batsch) Sacc. var. *risigallina*; UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; beech-fir forest; soil.

##♦ *Russula romellii* Maire; NChL; UP: Near Bereżki (NE slope of Kiczera Bereźczańska Mt), NE slope of Wielka Rawka Mt; VIII; beech forest, fir-beech forest; soil. Notes: In Poland also known from Tatry Mts [S124,S234,S235] and Mostki village [S43].

##*Russula turci* Bres. s. Maire; PP: Suche Rzeki (SE slope of Maguryczy Mt); VI; spruce-beech forest; soil.

*♦ *Russula velutipes* Velen.; UP: Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Wielka Rawka; VIII; fir-beech forest; soil.

##♦ *Russula vesca* Fr.; UP: NE slope of Wielka Rawka Mt, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

#♦ *Russula veternosa* Fr.; UP: Stuposiany 2 km SW (S slope of Prypiczek Mt); VIII; fir-beech forest; soil.

*♦ *Russula violeipes* Quél.; LR: [S1]. UP: Stuposiany 2 km SW (S slope of Prypiczek Mt), Near Bereżki (NE slope of Kiczera Bereźczańska Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦ *Russula viscida* Kudřna; LR: [S1,S4].

**Russula xerampelina* (Schaeff.) Fr. s.str.; LR: [S9]. UP: Pszczeliny 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

**Sarcodontia crocea* (Schwein.) Kotl.; RL-R; LR: [S4,S236,S237].

*♦*Sarcomyxa serotina* (Pers.) P. Karst.; LR: [S4], [S12] (as *Panellus serotinus* (Pers.) Kühner). PP: Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt); X; beech forest, fir-beech forest; wood. UP: Wołosate (near water intake), Muczne (NE slope of Kudriawyński Wierch Mt); X; fir-beech forest, shrubs; wood, *Fagus* log.

*♦*Schizophyllum commune* Fr.; SSI(C); LR: [S1,S4,S5,S6,S7,S9,S12,S13,S14]. PP: W from Zatwarnica (Tworylczyk valley), Dźwiniacz (cemetery), near Beniowa (Górny San valley nature trail); VI, VIII; spruce forest, fir-beech forest, tree clump; wood, deciduous branch, *Fagus* log. UP: Smerek 2 km S, Łopienka valley (0.2 km from Eastern Orthodox church), Wola Michowa, Lutowska (near BdNP education center), Lutowska (nature trail), Lutowska 2 km SW, between Muczne and Tarnawa (769 m asl pass), Pod Tarnicą pass, Bereżki 1.5 km SE (S slope of Kiczera Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VII-IX; deciduous forest, fir-beech forest, *Pulmonario-Alnetum viridis*, mixed forest, spruce forest, roadside, garden, beech forest; *Malus* branch, *Fagus* log, *Alnus viridis* branch, *Acer pseudoplatanus* branch.

*♦*Schizopora paradoxa* (Schrad.) Donk; LR: [S6] (as *Poria versiporia* (Pers.) Baxt. and *P. versiporia* (Pers.) Baxt. f. *Irpex paradoxus* (Schrad.) Bourd. & Galz.), [S7,S9] (as *Xylodon versiporus* (Pers.) Bond., *X. versiporus* (Pers.) Bond. f. *Irpex obliquus* (Schrad.) B. & G. and *X. versiporus* (Pers.) Bond. f. *Irpex paradoxus* (Schrad.) B. & G.), [S1,S5,S12] (as *Hyphodontia paradoxa* (Schrad.) E. Langer & Vesterholt s.l.). PP: Wetlina Górna (BdNP camping place); VI; shrubs by the stream; *Salix* branch. UP: Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Fagus* branch.

#*♦*Schizopora radula* (Pers.) Hallenb.; PP: Suche Rzeki (SE slope of Maguryczy Mt); VI; beech forest; *Abies* log. UP: NE from Hulskie NR; VIII; beech forest; *Abies* branches.

#**Scleroderma cepa* Pers.; UP: Wetlina (Rowiń Forest); X; beech forest; wood.

*♦*Scleroderma citrinum* Pers.; LR: [S5] (as *S. aurantium* L.), [S4]. PP: Bereżki, Wołosate (N slope of Kiczera Mt, Za Potok); VIII; beech forest, hazel shrubs; soil. UP: Wetlina, Wetlina (Górna Solinka valley), S from Zatwarnica (Hylaty valley, Izwir); IX-X; beech forest; soil.

****♦ *Scleroderma verrucosum* (Bull.) Pers.; PP:** Wołosate (N slope of Kiczera Leńkowska Mt, Mochnaczka); VIII; roadside; soil.

****Scotomyces subviolaceus* (Peck) Jülich; RL-E; LR:** [S1]. **Notes:** In Poland also known from Sanok-Turcza Mts [S169,S238].

****Scytinostroma galactinum* (Fr.) Donk; RL-Ex; LR:** [S1,S4].

****Scytinostroma odoratum* (Fr.) Donk; RL-Ex; LR:** [S4]. **UP:** Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; coniferous branch.

****♦ *Sebacina incrustans* (Pers.) Tul. & C. Tul.; UP:** Pszczeliny 2 km W (SE slope of Kosowiec Mt), Zatwarnica 2 km S (Hylaty valley); VIII; beech forest, fir-beech forest; litter.

***♦ *Simocybe centunculus* (Fr.) Singer var. *centunculus*; LR:** [S7] (as *Naucoria centuncula* Fr.), [S1] (as *Ramicola centunculus* (Fr.) Watling). **PP:** Tworylczyk valley; VI; beech forest; *Fagus* log.

***♦ *Simocybe haustellaris* (Fr.) Watling; LR:** [S1] (as *Ramicola haustellaris* (Fr.) Watling). **PP:** Tworylczyk valley; VI; beech forest; *Fagus* log.

****♦ *Simocybe sumptuosa* (P.D. Orton) Singer; UP:** near Tarnawa Górna (3.5 km SW from Tarnawa bog), Wołosate; VIII-IX; mixed forest, *Alnetum incanae*; *Fagus* log, wood.

***♦ *Skeletocutis amorphia* (Fr.) Kotl. & Pouzar; LR:** [S6] (as *Gleoporus amorphus* (Fr.) Clem. & Shear.), [S5,S7].

?*Skeletocutis amorphia* (Fr.) Kotl. & Pouzar f. *leucopora* Bres.; LR: [S7]. **Notes:** Form not mentioned in current monographs [S239,S240]. In paper by Gierczyk et al. [S1] this record has been cited as *S. amorphia* (Fr.) Kotl. & Pouzar.

♦ *Skeletocutis carneogrisea* A. David; LR: [S12].

***♦ *Skeletocutis nivea* (Jungh.) Jean Keller; LR:** [S6] (as *Leptoporus semipileatus* (Peck) Pilát), [S7,S9,S58] (as *Tyromyces semipileatus* (Peck) Murrill and *T. semipileatus* (Peck) Murrill f. *resupinatus* Bourdot & Galzin), [S5] (as *Leptotrimitus semipileatus* (Peck) Pouzar), [S1,S12]. **PP:** W from Zatwarnica (Tworylczyk valley), Suche Rzeki (Żytyszcze), S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne (by the bridge over Wołosaty stream), Ustrzyki Górne 3.5 km SW (Czuryłowo); VI, VIII; beech forest, fir-beech forest, mixed

forest; *Alnus* log, *Corylus* branch, *Fagus* log. **UP:** Lutowiska (nature trail), NE slope of Wielka Rawka Mt, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; deciduous forest, fir-beech forest, *Alnetum incanae*; *Fagus* branch, *Alnus incana* branch, *Fraxinus* branch. **Notes:** In paper by Gierczyk et al. [S1] error in citation has occurred, the correct reference is “Domański i in. 1967b” in the place of “Domański i in. 1970b”.

Skeletocutis odora* (Peck ex Sacc.) Ginns; **RL-V, SP; LR: [S241], [S242] (as *Incrustoporia tschulymica* (Pilát) Domanski).

*♦*Sparassis brevipes* Krombh. (Fig. S47); **RL-V, PaP; LR:** [S1,S4], [S243] (as *S. laminosa* Fr.). **UP:** Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), S from Zatwarnica (Hylaty valley, Izwir), Zatwarnica 3 km S (Hriadnik), Górna Solinka valley (Moczarne); VIII-IX; beech forest, fir-beech forest; *Abies* trunk base.



Fig. S47. Basidioma of *Sparassis brevipes* Krombh. from the Bieszczady Mts (Sep 07, 2011). Photography by K. Kujawa.

?*Sparassis crispa* (Wulfen) Fr.; **RL-R; LR:** [S5,S12]. **Notes:** *S. crispa* (Wulfen) Fr. is a species growing under pines. Specimens observed in the Bieszczady Mts by Domański et al.

[S5] grew on trunk base of *Abies alba*. This indicates a confusion with similar species, frequently observed in this region and parasiting on firs – *Sparassis brevipes* Krombh. Bartnik et al. [S12] did not mention the host for the observed fungus; however, in the characteristics of the permanent plots they listed firs, not pines; therefore, this record is also doubtful.

****Steccherinum cremeoalbum* Hjorstam; NChL; LR: [S1]. Notes:** In Poland known only from the Bieszczady Mts.

*♦***Steccherinum fimbriatum* (Pers.) J. Erikss.; RL-R; LR: [S9]** (as *Etheiroduon fimbriatum* (Pers.) Banker), [S5,S7].

*♦***Steccherinum ochraceum* (Pers. ex J.F. Gmel.) Gray; LR: [S1,S5,S6,S7,S9,S11]. UP:** Sine Wiry NR (S slope of Połoma Mt); VIII; beech forest; *Fagus* branch.

*♦***Stereum hirsutum* (Willd.) Pers.; LR: [S6,S7]** (as *S. hirsutum* (Willd.) Pers., *S. hirsutum* (Willd.) Pers. f. *resupinatum* Masee., *S. hirsutum* (Willd.) S.F. Gray f. *fagineum* Fr., *S. hirsutum* (Willd.) Gray f. *pilosiusculum* (Thüm.) Pil. and *S. hirsutum* (Willd.) Gray f. *rotundum* Pil.), [S1,S5,S9,S11,S12]. **PP:** W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec Mt), Suche Rzeki (E slope of Maguryczy Mt), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Czerteżyk Łocentyków), Nasiczne (E slope of Magura Nasiczańska Mt), Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley, SW slope of Dział Mt), Bereżki, S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Ustrzyki Górne (by the bridge over Wołosaty stream), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Wołosate (N slope of Kiczera Manzowa Mt); VI-X; beech forest, shrubs by the stream, fir-beech forest, mixed forest; deciduous wood, *Fagus* log and branches, *Corylus* branch, *Alnus incana* log, *Sorbus aucuparia* branch. **UP:** Beniowa 4 km S (Niedźwiedzi valley), Hulskie NR 2 km W, Dwernik 1.5 km NE, Dwerniczek 3.5 km N, Pszczeliny-Widełki (1 km S from forester's lodge), Bereżki 1.5 km SE (S slope of Kiczera Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), Bereżki 2 km NW; VIII-IX; roadside, mixed forest, beech forest, deciduous forest, fir-beech forest; *Corylus* branch, *Fagus* branches and trunks.

◆ *Stereum ostrea* (Blume & T. Nees) Fr.; RL-E; LR: ?[S9] (as *S. fasciatum* (Schw.) Fr.), [S56,S244] (as *S. insignitum* Quél.). Notes: Domański et al. [S9] reported from the locality in Bieszczady Mts (“Widelki Mt slope”) *S. fasciatum* (Schw.) Fr., a taxon regarded as a synonym of *S. ostrea* (Blume & T. Nees) Fr. However, in later monograph [S56] the author did not list this locality among known Polish records. Wojewoda [S51] considered these data as records of *S. subtomentosum* Pouzar, but Domański in *Stereum* monograph [S56] did not mention these stands (neither from the Bieszczady Mts from visit in 1960). The specimens from Widelki Mt need further study.

*◆ *Stereum rugosum* Pers.; LR: [S1,S5,S6,S7,S9,S12]. PP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (Rzeka valley), Suche Rzeki (Żytyszczce), Nasiczne (E slope of Magura Nasiczańska Mt), Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley), Bereżki, S from Bereżki (Zwir valley – Polanki), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Ustrzyki Górne (by the bridge over Wołosaty stream), Tarnawa Niżna (Szyryń), Wołosate 3.5 km E (Horbki), near Beniowa (Górny San valley nature trail); V-VIII; beech forest, spruce forest, shrubs by the stream, mixed forest, fir-beech forest, *Alnetum incanae*; *Pyrus* branch, *Corylus* branch, *Alnus incana* log, *Fagus* log, *Malus* branch, *Salix caprea* branch. UP: Lutowiska (Jewish cemetery), Dwerniczek 2.5 km N, NE slope of Wielka Rawka Mt, Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widelki 0.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 1 km W; VIII; tree clump, beech forest, mixed forest, fir-beech forest; *Corylus* branch, *Alnus incana* logs and trunk, *Fagus* logs and trunks.

*◆ *Stereum sanguinolentum* (Alb. & Schwein.) Fr.; LR: [S1,S5,S6,S7,S9,S12]. PP: Ustrzyki Górne (by the bridge over Wołosaty stream), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec); VI; fir-beech forest, mixed forest; *Abies* log, *Picea* log. UP: Lutowiska (nature trail), Bereżki 1.5 km SE (S slope of Kiczera Mt); VIII-IX; deciduous forest; *Abies* branch, *Pinus* wood.

*◆ *Stereum subtomentosum* Pouzar; LR: [S1,S5,S7,S56]. PP: Wetlina Górna (BdNP camping place), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt); VI; mixed forest, shrubs by the stream; *Salix* branch, *Alnus* branch. UP: Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 1 km W; VIII; *Alnetum incanae*, mixed forest; *Alnus* trunk, *Alnus incana* branch. Notes: In paper by Gierczyk et al. [S1] the record of *S. fasciatum* (Schw.) Fr. [S9] was cited as *S. subtomentosum* Pouzar, according to Wojewoda’s

opinion about specimens from the Bieszczady Mts [S51]. However, such synonymization is not certain (see notes under *S. ostrea* (Blume & T. Nees) Fr.).

*♦ *Strobilomyces strobilaceus* (Scop.) Berk. (Fig. S48); RL-R, PaP; LR: [S6,S7,S55] (as *S. floccopus* (Vahl. in Fl. Dan.) Karst.), [S1,S4,S12,S13,S16,S38,S245]. PP: SE from Bereżki (NW slope of Widełki Mt), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), Wołosate 3.5 km E (Horbki); VIII; beech forest, fir-beech forest; soil. UP: Wetlina (E slope of Jawornik Mt), Hulskie NR borders, Wetlina (Sękowa Mt, Jawornik range), Stuposiany 2 km SW (S slope of Prypiczek Mt), SW from Muczne (Jamniczna), Hulskie NR, Wetlina 2 km NE (W slope of Hnatowe Berdo Mt), Sine Wiry NR (S slope of Połoma Mt); VIII-X; beech forest, fir-beech forest; soil.



Fig. S48. Basidioma of *Strobilomyces strobilaceus* (Scop.) Berk. from the Bieszczady Mts (Aug 16, 2009). Photography by G. Domian.

- *♦ *Strobilurus esculentus* (Wulfen) Singer; LR: [S1,S4].
- *♦ *Strobilurus tenacellus* (Pers.) Singer; LR: [S1].
- *♦ *Stropharia aeruginosa* (Curtis) Quél.; LR: [S6,S7,S9,S13]. PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; spruce forest; spruce wood. UP: Pszczeliny-Widełki (3 km SE from forester's lodge); spruce forest; soil.
- **Stropharia albonitens* (Fr.) Quél.; RL-V; LR: [S9]. UP: Wola Michowa, Kalnica; X; meadow; soil.
- #♦ *Stropharia coronilla* (Bull.) Quél.; UP: Lutowiska (near Jewish cemetery); VIII; pasture; soil.
- #*♦ *Stropharia cyanea* (Bull.) Tuom.; PP: Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); X; spruce-beech forest; litter. UP: Wetlina (Rowiń Forest), Wetlina (Górna Solinka valley); X; beech forest; soil.
- #*Stropharia pseudocyanea* (Desm.) Morgan; RL-R; UP: Kalnica; X; meadow; soil.
- *♦ *Stropharia semiglobata* (Batsch) Quél.; LR: [S6,S7], [S1] (as *Psilocybe semiglobata* (Batsch) Noordel.). PP: Wetlina Górna (BdNP camping place), Wołosate (horse stud), Tarnawa Niżna (horse stud), Wołosate (by the tourist trail to Bukowska Pass); VI-X; roadside, hay landfill, stud site, spruce forest; soil, straw, hay, *Equus caballus* dung, manure.
- **Subulicystidium longisporum* (Pat.) Parmasto; LR: [S1].
- **Suillus bovinus* (L.) Roussel; LR: [S6,S55].
- *♦ *Suillus grevillei* (Klotzsch) Singer var. *grevillei*; LR: [S1,S7,S9]. PP: Wetlina Górna (BdNP camping place), Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream), Ustrzyki Górne 2 km NE (N slope of Kiczera Mt), W from Wołosate Bog (Wielkie Pole), Wołosate (N slope of Kiczera Manzowa Mt), Beniowa (Syhłowaty valley), Beniowa (Bobrowiec valley); VI-X; beech forest, fir-beech forest, larch-spruce forest, larch shrubs, meadow, roadside, spruce forest, spruce brushwood; soil. UP: Wołosate, Lutowiska (nature trail), Tarnawa Bog 2.5 km SW, Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII, X; mixed forest, meadow, forest margin (under larch); soil.

**Suillus luteus* (L.) Roussel; LR: [S7]. PP: Wołosate (near BdNP education center), Wetlina (Górna Solinka valley, near mouth of Beskidnik stream); VIII, X; spruce forest, spruce brushwood; soil.

**Suillus variegatus* (Sw.) Kuntze; LR: [S1,S4].

#*Tapinella atrotomentosa* (Batsch) Šutara; UP: Wetlina 1 km SW (N slope of Jawornik Mt); VIII; spruce forest; wood.

*♦*Tapinella panuoides* (Fr.) E.-J. Gilbert f. *panuoides*; LR: [S9] (as *Paxillus panuoides* (Fr.) Fr.).

**Tectella patellaris* (Fr.) Murrill (Fig. S49); LR: [S246]. UP: 2 km SW from Wyżniańska Pass (by the tourist trail to Mała Rawka Mt), S from Zatwarnica (Hylaty valley, Izwir), Hulski valley; IX; beech forest; *Fagus* log and branch, deciduous branch. Notes: In Poland reported also from Ludwikowo [S247] and Gorce Mts [S183].



Fig. S49. Basidiomata of *Tectella patellaris* (Fr.) Murrill in the Bieszczady Mts (Sep 07, 2011). Photography by K. Kujawa.

?*Thanatephorus fusisporus* (J. Schröt.) Hauerslev & P. Roberts; RL-E; LR: [S5] (as *Botryobasidium flavescens* (Bon.) Rogers). Notes: Name *Botryobasidium flavescens* (Bon.) Rogers is, according to Wojewoda [S51] (after Roberts [S248]), *nomen dubium*. Langer [S249] has considered it as a synonym of *Uthatabasidium fusisporum* (J. Schröt.) Donk (= *T. fusisporus* (J. Schröt.) Hauerslev).

#*Thelephora anthocephala* (Bull.) Fr.; RL-V; UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦*Thelephora caryophyllea* (Schaeff.) Pers.; RL-V; UP: Wetlina Górna (BdNP camping place); VI; spruce forest; soil. UP: Lutowiska; VII; roadside; soil.

*♦*Thelephora palmata* (Scop.) Fr.; LR: [S1]. PP: Wetlina (Lutowy valley); X; spruce forest; soil. UP: Lutowiska (nature trail), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest, mixed forest; soil.

*♦*Thelephora terrestris* Ehrh.; LR: [S6,S9] (as *Phylacteria terrestris* (Ehrh.) Pat. and *P. terrestris* (Ehrh.) Pat. var. *infundibuliformis* Bourd.), [S1]. PP: Wetlina Górna (BdNP camping place); VI; roadside; soil.

#*Tomentella bryophila* (Pers.) M.J. Larsen; NChL; UP: Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; coniferous branch.

**Tomentella coerulea* (Bres.) Höhn. & Litsch.; LR: [S7] (as *T. jaapii* (Bres.) Bourdot & Galzin), [S4]. UP: Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; *Abies* branch.

Tomentella fuscella (Sacc.) S. Lundell; LR: [S7]. Notes: In Poland known only from the Bieszczady Mts.

?*Tomentella pannosa* (Berk. & M.A. Curtis) Bourdot & Galzin; LR: [S7]. Notes: According to Wojewoda [S51] it is uncertain species. Not mentioned in current monographs [S250].

*♦*Trametes gibbosa* (Pers.) Fr.; LR: [S6,S7] (as *T. gibbosa* (Pers.) Fr., *T. gibbosa* (Pers.) Fr. f. *tenuis* Pil. and *T. gibbosa* (Pers.) Fr. f. *Kalchbrenneri* Fr.), [S9] (as *Pseudotrametes gibbosa* (Pers.) Bond. & Singer., *P. gibbosa* (Pers.) Bond. & Singer. f. *tenuis* Pil. and *P. gibbosa* (Pers.) Bond. & Singer. f. *Kalchbrenneri* Fr.), [S1,S4,S5,S12]. PP: Wetlina (Górna

Solinka valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Żytyszcze), Wołosate 3.5 km E (Horbki); VI, VIII; beech forest, deciduous forest, fir-beech forest; *Fagus* log, *Acer pseudoplatanus* branch. **UP:** Dwerniczek 3.5 km N, Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), NE slope of Wielka Rawka Mt, Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Berezki 2 km NW; VIII-IX; beech forest, fir-beech forest; *Fagus* logs and trunks.

*♦ ***Trametes hirsuta* (Wulfen) Pilát; LR:** [S6,S7] (as *T. hirsuta* (Wulf.) Pil., *T. hirsuta* (Wulf.) Pil. f. *crassa* Schroet., *T. hirsuta* (Wulf.) Pil. f. *puberula* Klachbr. and *T. hirsuta* (Wulf.) Pil. f. *fagicola* Vel.), [S9] (as *Coriolus hirsutus* (Wulf.) Quél. and *C. hirsutus* (Wulf.) Quél. f. *puberulus* Kalchbr.), [S1,S5]. **PP:** Suche Rzeki (SE slope of Maguryczy Mt), Suche Rzeki (Czerzeżyk Łocentyków), Wołosate (N slope of Kiczera Leńkowska Mt, Mochnaczka); VI, VIII; roadside, beech forest; *Fagus* log, deciduous branch. **UP:** Sękowiec 1.8 km N, Lutowiska (Jewish cemetery), Beniowa 4 km S (Niedźwiedzi valley), between Muczne and Tarnawa (769 m asl pass), Pod Tarnicą Pass, Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Muczne (NE slope of Kudriawyński Wierch Mt); VIII-X; fir-beech forest, deciduous forest, tree clump, mixed forest, *Pulmonario-Alnetum viridis*; *Fagus* branches, logs and trunks, *Alnus incana* trunk, *Alnus viridis* branch.

*♦ ***Trametes ochracea* (Pers.) Gilb. & Ryvar den; LR:** [S5,S6,S7] (as *T. zonata* (Fr.) Pil., *T. zonata* (Fr.) Pil. f. *grisea* Bres. and *T. zonata* (Fr.) Pil. f. *resupinata* Domański), [S9] (as *Coriolus zonatus* (Nees) Quél.), [S1].

*♦ ***Trametes pubescens* (Schumach.) Pilát; RL-R; LR:** [S1,S4,S6,S7,S12,S251], [S9] (as *Coriolus pubescens* (Schum.) Quél. and *C. pubescens* (Schum.) Quél. f. *tenuis* Bond.), [S5] (as *T. pubescens* (Schum.) Pil. and *T. pubescens* (Schum.) Pil. f. *tenuis* Bond.). **PP:** W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (Rzeka valley), Ustrzyki Górne (by the bridge over Wołosaty stream), Tarnawa Niżna (Szyryń); VI; shrubs by the stream, *Alnetum incanae*, fir-beech forest, mixed forest; *Alnus incana* log, deciduous log, *Fagus* log. **UP:** Lutowiska 6.2 km W, Ustrzyki Górne (N part), Lutowiska (Jewish cemetery), Tarnawa Bog 0.5 km W, Wołosate 1 km S, Wołosate 2 km NE (N slope of Hudów Wierszek Mt); VII-IX; *Alnetum incanae*, roadside, tree clump, beech forest; *Fagus* log, *Alnus incana* log.

*♦ *Trametes suaveolens* (L.) Fr.; LR: [S1,S5]. UP: Pszczeliny; VIII; shrubs by the stream; *Salix* branch.

**Trametes versicolor* (L.) Lloyd; LR: [S1,S5,S6,S7,S12], [S9] (as *Coriolus versicolor* (L.) Quél.). PP: SE from Bereżki (NW slope of Widełki Mt), Wołosate 3.5 km E (Horbki), Beniowa (Szczob); VII-VIII; beech forest, fir-beech forest; *Fagus* log. UP: Dwerniczek 2 km N, Hulskie NR 2 km W, between Muczne and Tarnawa (769 m asl pass), Dwernik 1.5 km NE, Dwerniczek 3.5 km N, near Tarnawa Górna (3.5 km SW from Tarnawa bog), near Pszczeliny (2 km S from Widełki forester's lodge), Near Bereżki (NE slope of Kiczera Berezczańska Mt), NE slope of Wielka Rawka Mt, Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Bereżki 2 km NW, Muczne (NE slope of Kudriawyński Wierch Mt); VIII-X; beech forest, fir-beech forest, mixed forest, roadside; deciduous wood, *Fagus* trunks and logs.

*♦ *Trametopsis cervina* (Schwein.) Tomšovský; RL-E; LR: [S1,S6] (as *Trametes cervina* (Schw.) Bres.), [S5] (as *Coriolellus cervinus* (Schw.) Kotl. & Pouz.), [S4,S214,S252].

Trechispora byssinella (Bourdot) Liberta; LR: [S7] (as *Cristella bysinella* (Bourdot) Donk). Notes: In Poland known only from the Bieszczady Mts.

**Trechispora candidissima* (Schwein.) Bondartsev & Singer; LR: [S6] (as *Poria candidissima* (Schwein.) Sacc.), [S7,S9] (as *Cristella candidissima* (Schw.) Donk.), [S57] (as *C. candidissima* (Schw.) Donk ap. W.B. Cooke).

Trechispora cohaerans (Schwein.) Jülich & Stalpers; LR: [S7] (as *Crystella confinis* (Bourdot & Galzin) Donk). Notes: In Poland also known from Kampinos NP [S35] and Kaszuby LP [S176].

Trechispora farinacea (Pers.) Liberta; LR: [S7] (as *Cristella submutabilis* (Höhn. & Litsch.) Donk).

?♦ *Trechispora mollusca* (Pers.) Liberta; LR: [S1,S51]. Notes: Species incorrectly mentioned from Bieszczady Mts by Wojewoda [S51] and Gierczyk et al. [S1] basing on data published by Domański et al. [S5,S7]. In the first of the cited original papers the authors reported *Fibuloporia mollusca* (Pers. sensu Bres.) Bond. & Sing., in the second one - *F. donkii* Domański (= *F. mollusca* (Pers. ss. Bres.) Bond.). Discussion in the paper [S253]

indicates that *Poria mollusca* sensu Bresadola is conspecific with *Poria mucida* (Pers.) Cooke, whose current name is *Ceriporiopsis mucida* (Pers.) Gilb. & Ryvarden.

****Tremella aurantia* Schwein.; LR: [S4]. UP:** Hulskie NR 2 km W (near abandoned quarry); VIII; roadside; *Stereum hirsutum* basidiomata on *Corylus* branch. **Notes:** In Poland also known from Białowieża Primeval Forest [S34,S254].

****Tremella cladoniae* Diederich & M.S. Christ.; LR: [S4,S255].**

****Tremella hypogymniae* Diederich & M.S. Christ.; LR: [S4,S255,S256].**

#*Tremella mesenterica* (Schaeff.) Retz. f. *crystallina* Ew. Gerhardt (Fig. S50); NChL; UP: Sękowiec 1.5 km N, Pszczeliny; VIII; deciduous forest, shrubs by the stream; deciduous branch. **Notes:** In Poland known also from Przemyśl Foothills [S29].



Fig. S50. Basidiomata of *Tremella mesenterica* (Schaeff.) Retz. f. *crystallina* Ew. Gerhardt from the Bieszczady Mts (Aug 02, 2011). Photography by G. Domian.

*♦ *Tremella mesenterica* (Schaeff.) Retz. f. *mesenterica*; LR: [S1,S5,S6,S9,S66]. PP: Berezki, S from Berezki (Zwir valley – Polanki), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berek), Suche Rzeki (W slope of Jawornik Mt), Suche Rzeki (Rzeka valley), Nasiczne (E slope of Magura Nasiczańska Mt); VI; fir-beech forest, shrubs by the stream, *Alnetum incanae*, mixed forest; *Alnus incana* branch, *Corylus* branch, *Pyrus* branch. UP: Lutowiska (Jewish cemetery); VIII; tree clump; *Crataegus monogyna* branch.

#*♦ *Tremella versicolor* Berk. & Broome; NChL; PP: Wetlina (Górna Solinka valley); V; beech forest; *Peniophora* sp. basidiomata on *Alnus incana* branch. Notes: In Poland also known from Włynice village [S76].

**Tremiscus helvelloides* (DC.) Donk (Fig. S51); RL-R, PaP; LR: [S7] (as *Phlogiotis helvelloides* DC.), [S1,S4,S66,S152]. UP: Zatwarnica 2 km S (Hylaty valley), Hulski valley; VIII-IX; beech forest; soil.



Fig. S51. Basidiomata of *Tremiscus helvelloides* (DC.) Donk from the Bieszczady Mts (Aug 06, 2011). Photography by K. Kujawa.

*♦ *Trichaptum abietinum* (Pers. ex J.F. Gmel.) Ryvarden; LR: [S5,S7] (as *Hirschporus abietinus* (Dicks.) Donk), [S1,S12]. PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (Czerteżyk Łocentyków), Nasiczne (E slope of Magura Nasiczańska Mt), S from Bereżki (Zwir valley – Polanki), Ustrzyki 2 km N (N slope of Kiczera Mt), Ustrzyki Górne (near parking place at the base of Wielka Rawka Mt), Wołosate (N slope of Kiczera Mt, Za Potok), Tarnawa Niżna (Szyryń), Beniowa (Kiczera Beniowska), near Beniowa (Górny San valley nature trail); VI, VIII; beech forest, mixed forest, peat bog, fir-beech forest, spruce forest, shrubs by the stream; coniferous wood, *Picea* log, *Abies* log and branch, *Fagus* log. UP: NE slope of Wielka Rawka Mt, Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; *Abies* branch.

*♦ *Trichaptum biforme* (Fr.) Ryvarden; RL-R, SSI(C); LR: [S6] (as *Trametes biformis* (Fr. ex Klotsch) Pil.), [S5,S9] (as *Hirschiophorus pergamenus* (Fr.) Bond. & Sing.), [S1,S257]. PP: W from Zatwarnica (Tworylczyk valley), SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (Rzeka valley), Suche Rzeki (Czerteżyk Łocentyków), Nasiczne (E slope of Magura Nasiczańska Mt), Bereżki 2 km NW, Ustrzyki 2 km N (N slope of Kiczera Mt), NE slope of Wielka Rawka Mt (Dołhe Pole), Wołosate (SW slope of Semków Wierszek Mt), Wołosate (N slope of Kiczera Manzowa Mt), Wołosate 3.5 km E (Horbki); VI, VIII; beech forest, shrubs by the stream, fir-beech forest, *Alnetum incanae*, mixed forest; *Fagus* log, *Alnus incana* log, wood. UP: Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Ustrzyki Górne (N part of the village), Tarnawa Bog 0.5 km W, near Tarnawa Górna (3.5 km SW from Tarnawa bog), Wołosate 1 km S, Ustrzyki Górne 3 km W (by the tourist trail to Wielka Rawka Mt), Pszczeliny-Widełki (1 km S from forester's lodge), Rozsypaniec Mt 1 km SW, Hulskie NR, Chmiel 3.5 km NW (SSW slope of Otryt Niżny Mt), Sękowiec 3 km NNE (by the tourist trail near Hulskie NR), Wetlina 2 km NE (SW slope of Hnatowe Berdo Mt), Wetlina 3 km SSW (W slope of Jawornik Mt), S from Wetlina (E slope of Jawornik Mt), N from Wetlina (by the tourist trail to Orłowicz pass), Sine Wiry NR (near Wetlina stream), Sine Wiry NR (S slope of Połoma Mt), NNE from Jaworzec (NE slope of Żołobina Mt), N from Dołżyca (Łopiennika Mt); VII-IX; beech forest, mixed forest, shrubs, fir-beech forest, riparian forest; *Alnus* trunk, *Fagus* logs and trunk, *Corylus* branch.

#♦ *Trichaptum hollii* (J.C. Schmidt) Kreisel; UP: Lutowiska 6.4 km W; VII; beech forest; *Abies* log.

*♦ *Tricholoma album* (Schaeff.) P. Kumm.; LR: [S1].

##* *Tricholoma atosquamosum* (Chevall.) Sacc.; PP: Wetlina (Górna Solinka valley, Chyzyszcze); X; fir-beech forest; soil.

!##* *Tricholoma basirubens* (Bon) A. Riva & Bon; NChL; PP: Wetlina (Górna Solinka valley, Chyzyszcze); X; fir-beech forest; soil. **Notes:** Cap 6–10 cm in diameter, convex to applanate, with broad umbo, dry, cream-colored to pale ocher, covered with dark brown, brownish gray to blackish, appressed squamules. Stipe clavate, fibrillose, gray with darker, graphite squamules, fibrills and bands. Gills adnate, medium spaced, pale grayish. Smell sweetish becoming farinaceous in damaged basidiomata. All parts of basidiomata becoming reddish when handling. Basidia 4-spored. Spores ellipsoid to broadly ellipsoid or subglobose, 4–7 × 3–6.5 µm, hyaline, smooth. Cheilocystidia variable, lageniform, subutriform, clavate or cylindrical, septate or not, sometimes branched. Pleurocystidia absent. Pileipellis a cutis with transition to trichoderm. Stipitipellis a cutis. Clamps absent. Specimens seen: 08.10.2009, *leg.* A. Kujawa, *det.* B. Gierczyk, fungarium no. BdPN-01316.

? *Tricholoma bufonium* (Pers.) Gillet; LR: [S1]. **Notes:** Current molecular studies do not allow to separate *T. bufonium* from *T. sulphureum* (Bull.) P. Kumm. [S258]. Taxonomic range of this species needs further studies.

##♦ *Tricholoma cingulatum* (Almfelt) Jacobashch; UP: Wetlina (Górna Solinka valley); X; roadside (under *Salix*); soil.

#♦ *Tricholoma columbetta* (Fr.) P. Kumm.; RL-R; UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦ *Tricholoma fulvum* (DC.) Bigeard & H. Guill.; LR: [S1]. PP: Wetlina Górna (BdNP camping place); X; meadow (under *Betula*); soil. UP: Wołosate; meadow (under *Betula*); soil.

##♦ *Tricholoma lascivum* (Fr.) Gillet; PP: Muczne 2 km SW (Jamniczna); VIII; fir-beech forest; soil. UP: Wołosate 4 km E (Hawry Forest), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; beech forest, fir-beech forest; soil.

* *Tricholoma luridum* (Schaeff.) P. Kumm.; RL-Ex; LR: [S1,S4].

*♦ *Tricholoma orirubens* Quél.; RL-V; LR: [S4]. PP: Bereżki 2 km NW; VIII; beech forest; soil.

#* *Tricholoma portentosum* (Fr.) Quél.; UP: Wołosate (near water intake); X; shrubs; soil.

#* *Tricholoma psammopus* (Kalchbr.) Quél.; PP: Wetlina Górna (BdNP camping place); VI, X; meadow, roadside; soil (under larch).

*♦ *Tricholoma saponaceum* (Fr.) P. Kumm. var. *saponaceum*; LR: [S1,S7]. UP: Wetlina (Rowiń Forest), Wetlina (Górna Solinka valley), 2 km W (SE slope of Magura Stuposiańska Mt); VIII-X; beech forest, fir-beech forest; soil.

#* *Tricholoma saponaceum* (Fr.) P. Kumm. var. *squamosum* (Cooke) Rea; NChL; UP: Wetlina (Górna Solinka valley), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII-X; beech forest, fir-beech forest; soil. Notes: Species in Poland known hitherto from vicinity of Białowieża Forest [S259].

#*♦ *Tricholoma sculpturatum* (Fr.) Quél.; UP: Pszczeliny, Wetlina (Górna Solinka valley); X; beech forest, playground (under larch and lime); soil.

*♦ *Tricholoma sciodes* (Pers.) C. Martín; LR: [S1]. PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt); X; beech forest, spruce-beech forest; soil. UP: Pszczeliny 2 km W (SE slope of Kosowiec Mt), Wołosate (S slope of Szeroki Wierch Mt); VIII-IX; beech forest, fir-beech forest; soil.

#*♦ *Tricholoma sejunctum* (Sowerby) Quél.; RL-R; PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt); X; beech forest; soil. UP: Pszczeliny 2.5 km W (E slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦ *Tricholoma sulphureum* (Bull.) P. Kumm. s.l.; LR: [S1,S5,S6,S13,S14]. PP: Wetlina (Górna Solinka valley, Chyżyszcze); X; fir-beech forest; soil. UP: Wołosate (near water intake), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt); VIII-X; fir-beech forest, shrubs; soil.

*♦ *Tricholoma ustale* (Fr.) P. Kumm.; LR: [S1]. PP: Wetlina (Górna Solinka valley, Chyżyszcze); X; fir-beech forest; soil.

#*♦ *Tricholoma vaccinum* (Schaeff.) P. Kumm.; PP: Wetlina (Górna Solinka valley, SW slope of Dział Mt); X; spruce-beech forest, spruce brushwood; soil. **UP:** Beniowa 2.5 km S; VIII; spruce forest; soil.

****Tricholoma virgatum* (Fr.) P. Kumm.; LR:** [S6]. **UP:** Wołosate (near water intake); X; shrubs; soil.

***♦ *Tricholomopsis decora* (Fr.) Singer; RL-R; LR:** [S1]. **PP:** Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Beniowa (Szczyb); VIII, X; fir-beech forest; wood, *Abies* log. **UP:** Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt), Muczne 2 km SW (Jamniczna), E from Dołżyca (Falowa Mt), Gołoborze NR, W from Rabe (S slope of Chryszczata Mt by the tourist trail); VIII-IX; beech forest, fir-beech forest, mixed forest; *Abies* log, *Picea* log, trunk.

!#* *Tricholomopsis flammula* Holec; NChL; PP: Ustrzyki Górne 3.5 km SW (Czuryłowo); VIII; spruce forest; trunk. **Notes:** Caps 3–4 cm in diameter, convex, yellow to ochre, covered with vinaceous red fibrills and squamules. Stipe 4–6 cm long, cylindrical, yellowish, yellow to chrome yellow, with scattered vinaceous red fibrills. Lamellae adnate, crowded, yellow. Basidia 4-spored. Spores ellipsoid to oblong, 5.5–9 × 3–5 μm, hyaline, smooth, inamyloid. Cheilocystidia clavate. Pleurocystidia subclavate, narrowly clavate, obtusely fusiform, subcylindrical, with yellowish content. Pileipellis a cutis with transition to trichoderm. Stipitipellis a cutis. Clamps present. Specimens seen: 19.08.2009, leg. A. Szczepkowski, det. A. Kujawa, fungarium no. BdPN-01000.

***♦ *Tricholomopsis rutilans* (Schaeff.) Singer; LR:** [S13] (as *Tricholoma rutilans* (Fr. ex Schaff.) Quél.), [S1,S5,S6,S7]. **PP:** Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley, SW slope of Dział Mt), Wołosate (N slope of Kiczera Mt), Wołosate 3.5 km E (Horbki), Beniowa (Szczyb); VIII, X; spruce forest, beech forest, fir-beech forest, spruce-beech forest; soil, trunk. **UP:** Czarna 5 km S, Ustrzyki Górne 5 km W (by the tourist trail to Wielka Rawka Mt), near Pszczeliny (3 km S from Widełki forester's lodge), Zatwarnica 3 km S (Hriadnik), NE slope of Wielka Rawka Mt, Przysłup Caryński pass, Hulskie NR; VIII-IX; beech forest, spruce forest, deciduous forest, fir-beech forest; *Abies* trunk base, *Picea* trunk, soil.

#*♦ *Tubaria conspersa* (Pers.) Fayod; PP: Dźwiniacz (cemetery); VI; tree clump; *Tilia* bark.
UP: S slope of Połonina Wetlińska Mt, Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 0.5 km W (SE slope of Magura Stuposiańska Mt); VIII; beech forest, fir-beech forest; litter.

****Tubaria dispersa* (Pers.) Singer; LR:** [S5] (as *T. autochtona* (Berk. & Broome) Boud.).
UP: Lutowiska, near Lutowiska (Jewish cemetery); VII-VIII; roadside, tree clump; litter.

****Tubaria furfuracea* (Pers.) Gillet s.str.; LR:** [S1,S9]. **PP:** Tworylczyk valley; VI; beech forest; litter. **UP:** Ustrzyki Górne 4 km W (by the tourist trail to Wielka Rawka Mt), Near Bereżki (NE slope of Kiczera Bereżczańska Mt); VIII-IX; beech forest, fir-beech forest; wood, *Fagus* branch.

#*♦ *Tubaria hiemalis* Bon; NChL; UP: Wetlina (Górna Solinka valley); X; roadside; wood remains. **Notes:** By Wojewoda [S51] and Vesterholt [S260] considered as a synonym of *T. furfuracea* (Pers.) Gillet.

***♦ *Tubaria minutalis* Romagn.; LR:** [S1].

?*Tubaria pallidispora* J.E. Lange; LR: [S9]. **Notes:** Species not mentioned in current monographs.

?*Tubaria pellucida* (Bull. & Vent.) Sacc.; LR: [S5,S7,S9]. **Notes:** Species not mentioned in current monographs.

***Tubulicrinis subulatus* (Bourdot & Galzin) Donk; LR:** [S7] (as *T. subulata* (Bourdot & Galzin) Donk).

#*Tylopilus felleus* (Bull.) P. Karst.; UP: Gołoborze NR; IX; mixed forest; soil.

****Typhula uncialis* (Grev.) Berthier; LR:** [S5,S7,S9] (as *Pistillaria typhuloides* (Peck.) Burt), [S1,S4]. **PP:** Suche Rzeki (SE slope of Maguryczy Mt), Wetlina (Lutowy valley), Wetlina (Górna Solinka valley, Jurciowa), Dźwiniacz (near cemetery), Wołosate 2 km E; VI, VIII; roadside; *Petasites* petioles.

***♦ *Tyromyces chioneus* (Fr.) P. Karst.; LR:** [S6] (as *Leptoporus lacteus* (Fr.) Quél.), [S9] (as *T. albellus* (Peck) Bond. & Sing.). **UP:** Bereżki 2 km NW; VIII; fir-beech forest; log. **Notes:** The specimens' determination, published in 1960 [S6], was corrected in later paper [S9].

**Volvariella bombycina* (Schaeff.) Singer; RL-R, SSI(C); LR: [S4,S261].

#*♦ *Volvariella gloiocephala* (DC.) Boekhout & Enderle; PP: Tarnawa (horse stud); VI; horse stud site; soil.



Fig. S52. Basidioma of *Volvariella pusilla* (Pers.) Singer from the Bieszczady Mts (Aug 02, 2011). Photography by K. Kujawa.

#*Volvariella pusilla* (Pers.) Singer (Fig. S52); RL-V; UP: Lutowiska; VII; roadside; soil.

##**Vuilleminia comedens* (Nees) Maire; PP: Ustrzyki Górne 2 km SW (Wierch Mt); VIII; roadside; *Corylus* branch.

**Woldmaria filicina* (Peck) Knudsen; LR: [S4,S262].

*◆*Xerocomus badius* (Fr.) E.-J. Gilbert; LR: [S13] (as *Boletus badius* Fr.), [S1,S6]. PP: Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), Beniowa (Szczob); fir-beech forest; soil. UP: Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt), NE slope of Wielka Rawka Mt; VIII; fir-beech forest; soil.

*◆*Xerocomus chrysenteron* (Bull.) Quél.; LR: [S13] (as *Boletus chrysenteron* Bull.), [S5,S6,S7,S9], [S1] (as *X. pascuus* (Pers.) Krombh.). PP: SW from Zatwarnica (Hulski valley, SE slope of Błyszczowy Berec), Suche Rzeki (W slope of Jawornik Mt), Wetlina Górna (BdNP camping place), Wetlina (Górna Solinka valley, N slope of Kamienna Łuka Mt), W from Wołosate Bog (Wielkie Pole), Wołosate 3.5 km E (Horbki), Beniowa (Syhłowaty valley), Beniowa (Szczob), Beniowa (Kiczera Beniowska); VI-X; beech forest, fir-beech forest, hazel shrubs, shrubs by the stream; soil. UP: Wołosate (near water intake), Dwerniczek 1 km N, Dwerniczek 3.5 km N, Zatwarnica 2 km S (Hylaty valley), near Pszczeliny (2 km S from Widełki forester's lodge), S from Zatwarnica (Hylaty valley, Izwir), Near Bereżki (NE slope of Kiczera Bereżczańska Mt), Stuposiany 2 km SW (S slope of Prypiczek Mt), Pszczeliny 0.5 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny 2 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 1.5 km W (SE slope of Magura Stuposiańska Mt); VIII-IX; beech forest, fir-beech forest, shrubs; soil.

##◆*Xerocomus ferrugineus* (Schaeff.) Bon; NChL; UP: Zatwarnica 2 km S (Hylaty valley); VIII; beech forest; soil.

**Xerocomus pelletieri* (Lév.) Bresinsky & Manfr. Binder; RL-R, PaP; LR: [S4,S38] (as *Phylloporus pelletieri*).

##◆*Xerocomus porosporus* Imler; UP: Zatwarnica 3 km S (Hriadnik), near Pszczeliny (3 km S from Widełki forester's lodge), S from Zatwarnica (Hylaty valley, Izwir), Ustrzyki Górne 1 km NW (by the tourist trail to Połonina Caryńska Mt), Rozsypaniec Mt 1 km SW; IX; beech forest; soil.

#*♦ *Xerocomus pruinatus* (Fr. & Hök) Quél.; UP: Wetlina (Górna Solinka valley), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VIII, X; beech forest, fir-beech forest; soil.

*♦ *Xerocomus rubellus* (Krombh.) Quél.; LR: [S1].

*♦ *Xerocomus subtomentosus* (L.) Quél.; LR: [S1,S6,S7,S9]. PP: SE from Bereżki (NW slope of Widełki Mt); VIII; fir-beech forest; soil. UP: Pszczeliny 1 km W (SE slope of Magura Stuposiańska Mt), Pszczeliny-Widełki 2.5 km W (SE slope of Magura Stuposiańska Mt); VIII; fir-beech forest; soil.

*♦ *Xeromphalina campanella* (Batsch) Kühner & Maire; LR: [S1,S5]. UP: Zatwarnica 3 km S (Hriadnik), S from Zatwarnica (Hylaty valley, Izwir), Hulski valley; IX; beech forest; *Abies* log, wood.

♦ *Xylodon flaviporus* (Berk. & M.A. Curtis ex Cooke) Riebesehl & E. Langer; LR: [S12] (as *Hyphodontia flavipora* (Berk. & M.A. Curtis ex Cooke) Sheng H. Wu).

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