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Macrofungi of wooded patches in the agricultural landscape. I. Species diversity

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This article begins a four-part series, which presents the results of mycological research carried out in 2000-2007 in the agricultural landscape of the General Dezydery Chłapowski Landscape Park. This part includes description of the study area and field research methods, as well as a list and localities of 617 macrofungal taxa recorded in the Park. The next parts of this series will deal with: species that are rare, protected by law or recorded for the first time in Poland; the role of wooded patches for preservation of fungal diversity in the agricultural landscape; and changes in species diversity and structure of fungal communities in forest communities under strong human pressure.

Key words: macrofungi, nature conservation, agricultural landscape, species diversity

INTRODUCTION

A review of Polish mycological literature shows a relatively small number of studies dealing with macrofungi occurring in non-farmed habitats in farmlands, which are under strong human pressure. This group of habitats includes small wooded patches (shelterbelts or clumps of trees surrounded by farmland), avenues (roadside verges with trees), village parks, and managed forests (mainly monocultures). They are forest islands surrounded by crop fields, which often play a key role for biodiversity protection in farmland (e.g., Ryszkowski at al. 1999; Banaszak 2002). Mycological studies of small isolated wooded patches by strongly influenced of human activity have been very rarely carried out in Poland. Only few mycological papers deal with elements of agricultural landscape, e.g., village parks (Lisiewska, Ratyńska 1984; Lisiewska, Rybak 1990; Lisiewska, Płaczek 1993; Bujakiewicz, Kujawa 2000), orchards (Lisiewska, Balcerkiewicz 1991), edges of small water bodies in farmland (Adamczyk 1997), pastures (Domański Z. 1969), and forests developing in old fields

(Kałucka 1999). There are no complex studies of wooded patches typical for the agricultural landscape, i.e., varying in age, stage of development, origin, etc. Such studies seem necessary in the context of reports on disappearance of fungi in Europe and the need for protection of this group of organisms (e.g., Koune 2001; Senn-Irlet et al. 2007). This applies to the Polish mycobiota, too (e.g., Ławrynowicz 1991; Grzywacz 1989; Łuszczyński 2002).

The objective of this study was to describe the species diversity of macrofungi in small wooded patches, village parks and managed forests in the General Dezydery Chłapowski Landscape Park. This article begins a four-part series, which presents the results of mycological research conducted in the Park.

STUDY AREA

The General Dezydery Chłapowski Landscape Park (17 200 ha) is located in central Wielkopolska, 50 km south of Poznań (Fig. 1). It was founded in 1992 to protect the unique agricultural landscape markedly enriched with a system of various wooded patches, planted in the early 19th century by Dezydery Chłapowski, then the owner of the residence in Turew. They are protected as a cultural assets at present (Ryszkowski 1998, Rozporządzenie... 1992). The Park consists mainly of crop fields (65.5%), woodlands (15%) and grasslands (8.5%) (Rozporządzenie... 1992, Fig. 1). It lies in subprovince Pojezierze Południowobałtyckie lakeland (315), macroregion Pojezierze Leszczyńskie lakeland (315.8), within 2 mesoregions – Pojezierze Krzywińskie lakeland (315.82) and Równina Kościańska plain (315.83) (Kondracki 2002). The northern part of the Park lies in Równina Kościańska plain and the southern part belongs to Pojezierze Krzywińskie lakeland, in which there are several tens of lakes created during the last glacial period, i.e., Vistulian glaciation (Kondracki 2002). The most common kinds of soils are Luvisols (lessive soils) which are a type of autogenic brown-earth soils. They are used mostly for cultivation of various crops. Only the valleys of watercourses (Kościan Obra Canal, Wyskoć Ditch, and smaller watercourses) are filled with alluvial sediments covered with peat. The upper layers of peat have been partly decomposed and the hydrogenic soils formed there are Histosol, classified as post-bog soils and muck soil type; peat-muck soils dominate among them (Margowski et al. 1976; Marcinek 1996).

The Park lies in the catchment of the Obra river, which is an area threatened by water deficit (Pasławski 1990). No watercourse in the area has a natural route, as all watercourses were regulated, mainly in the 19th century (Kasprzak, Raszka 2007). There are relatively numerous small astatic water bodies. For 40 years, disappearance of small water bodies and watercourses has been observed as a result of natural succession, drying out, and human activity (Ryszkowski 1990). The growing season lasts 225 days, from late March till the end of October (Woś, Tamulewicz 1996). Mean yearly precipitation (ca. 600 mm) is one of the lowest not only in Poland but also in Europe. Maximum monthly precipitation is observed in July (80 mm), while minimum in February (30 mm) (Kędziora, Palusiński 1998).

The area of the Park is potentially predominated by *Galio sylvatici-Carpinetum* (Wojterski et al. 1981; Bałazy et al. 1990) (Fig. 1) where anthropogenic communities are most common: first of all crop fields, meadows, and managed forests (Ratyńska-Nowak 1986; Ratyńska 1990, Bałazy et al. 1990). Besides *Galio sylvatici-Carpinetum*, also 5 other potential habitats were recorded: *Salici-Populetum*, *Carici elongatae-Alnetum*, *Fraxino-Alnetum*, *Querco-Ulmetum minoris,* and *Calamagrostio arundinaceae-Quercetum petraeae* (Bałazy et al. 1990; Ratyńska 1990). Forests and smaller wooded patches cover only ca. 15% of the Park (2198 ha) and comprise ca. 50 isolated complexes. Such forest fragmentation causes higher susceptibility of those complexes to human pressure (Olaczek 1972; Bałazy et al. 1990). In spite of the potential dominance of the *Galio sylvatici-Carpinetum* habitats, managed forest stands very rarely resemble natural forest communities in species composition and vertical structure. There are many degraded forest communities in the Park (Ratyńska 1990). Among the species that are native to Wielkopolska, some species that are alien to this region have been planted e.g., *Picea abies*, *Larix* sp., *Pseudotsuga taxifolia*, *Robinia pseudoacacia*, and *Quercus rubra*. Moreover, *Aesculus hippocastanum*, *Acer negundo*, and *Gleditsia triacanthos* are often found in avenues and small wooded patches surrounded by crop fields. A characteristic and distinctive feature of the landscape in the Park is the presence of trees along field edges, which constitute a system of ecological corridors. Since the 1990s, the system has been complemented and reconstructed (Kujawa 1998). In the mostly deforested landscape of the Park, these wooded patches substitute for forests and compensate for their lack or complement them in biocoenotic functions (Bałazy et al. 1990).

The first report on macrofungi was published by Goszczyński et al. (1980) and dealt with a single record of *Langermannia gigantea* in the palace park in Turew. A study of species composition of macrofungi in the village park in Turew was carried out in 1997-1999 (Bujakiewicz, Kujawa 2000), and macrofungal species diversity in 3 belts of various age was evaluated in 1998-2000 (Strakulska 2001; Lisiewska, Strakulska 2002). Since 1998 the rate of colonisation by macrofungi of 4 young shelterbelts planted in former crop fields has been studied (Kujawa 2007; Kujawa, Kujawa 2008). There are very few reports on selected species (Kujawa, Karg 1997; Danielewicz, Maliński 1999; Kujawa 2003a, b; Kujawa et al. 2004; Ronikier 2005, 2005a; Kujawa, Karasiński 2007). A preliminary description of mycobiota of the Park has been presented by Kujawa (2008a).

MATERIAL AND METHODS

Mycological research was carried out in 2000-2007 (Kujawa 2008, Kujawa 2008a). The study dealt with Ascomycota and Basidiomycota according to the classification by Hibbett et al. (2007). Controversial genera, regarded by some mycologists as microfungi, were included into analyses following Hansen and Knudsen (2000). Data were collected in 50 permanent plots in 2000-2002 and with the route method (searching while walking along a route) in 2000-2007. The plots (400 m^2 each) were

distributed in various types of farmland woods: small wooded patches, village parks, and managed forests (Fig. 2).

Because of a great variation of the vegetation of the studied wooded patches and their degradation, these communities were divided in relation to their shape, area, and spatial arrangement of trees and shrubs (after Zajączkowski 2005 – modified):

- avenues – single rows of trees on both sides of a road (6 plots: No. 3, 9, 16, 20, 24, 33),
- shelterbelts – 2 or more rows of trees with the width up to 20 m, at least 5 times longer than wide (4 plots: No. 27, 32, 34, 37),
- clumps of trees – wooded patches of at least 0.02 ha, less than 5 times longer than wide (4 plots: No. 8, 10, 12,13),
- village parks – parks within villages, varying in area, degree of degradation, management activities (thinning, etc.), and visitor pressure (10 plots: 5 parks with two plots each, No. 1, 2, 4, 5, 14, 15, 18, 19, 35, 36),
- managed forests – wooded areas belonging to the Kościan Forest District; they consist of mature monocultures of native and alien tree species (26 plots, including 19 in broadleaf monocultures: No. 6, 7, 11, 17, 21-23, 29-31, 38, 39, 42-45, 47, 48, 50, and 7 in coniferous monocultures, No. 25, 26, 28, 40, 41, 46, 49) (Fig. 2).

Data were collected during 1500 visits (50 plots, 30 visits in each plot). During each visit, all observed species were collected or noted. Dried material has been deposited in the Field Station of the Institute for Agricultural and Forest Environment, Polish Academy of Sciences, Turew near Poznań, Poland.

Data collected on permanent plots were used for making comparisons of mycobiota between categories of communities and for evaluation of the importance

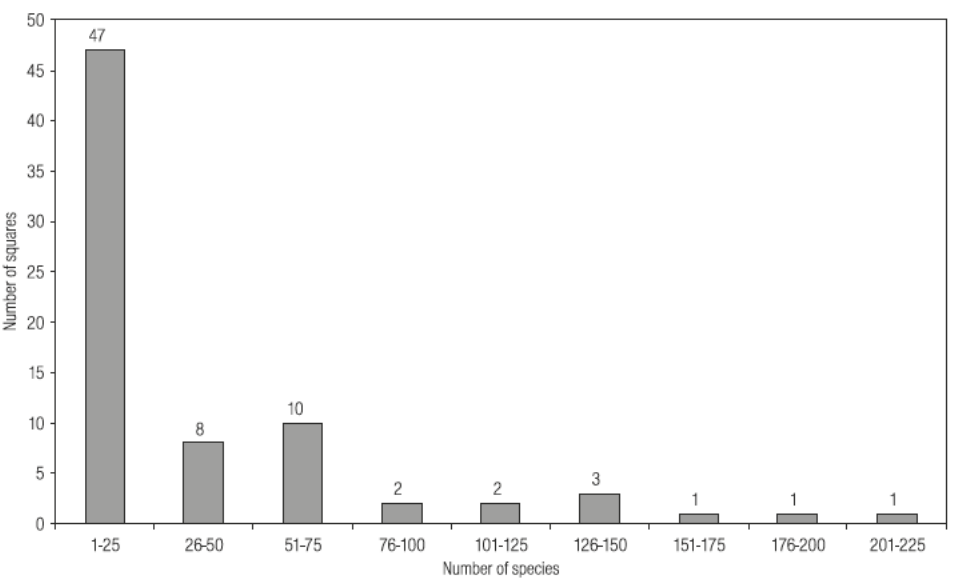

Fig. 3. Number of fungal species recorded per ATPOL square in the General Dezydery Chłapowski Landscape Park.

of those communities for preservation of fungal species diversity in farmland. The collected data, complemented with published materials, reflect differentiation of mycobiota in the Park and the current status of knowledge.

RESULTS

As many as 615 taxa of macrofungi representing two phyla were recorded in the Park. Most species (528; 86%) belonged to the phylum Basidiomycota, represented by 3 classes, 14 orders, and 52 families. Species from the order Agaricales constituted 63.5% of all recorded species. The phylum Ascomycota (87 species, 14%) was represented by 5 classes, 7 orders and 18 families. Richest in recorded species were the orders Pezizales (35 spp.) and Helotiales (34 spp.).

The area of the Park is covered by 223 squares (1 km^2 each) of the ATPOL grid; among them, 58 squares lie on the border of the Park. The data on fungi were gathered in 75 squares (33.6%). Some of them were visited regularly (study in permanent plots), whereas others only sporadically (47 squares). The number of recorded species per square ranged between 1 and 213 (Fig. 3). Merely 8 squares (3.6%), i.e. those with species number higher than 100, can be regarded as mycologically relatively well-studied.

Many species (399; 64%) were recorded in only 1-3 squares. According to the criteria adopted in this paper (classes of frequency values), these species are regarded as rare or very rare. Among them, 213 species are known from single squares. In highest numbers of squares, the following species were observed: *Gymnopus dryophilus* (28), *Mycena sanguinolenta* (25), *Xerocomus chrysenteron* (24), *Mycena galericulata* (23), *Gymnopus peronatus* (21), *Marasmius oreades* (20), and *Mycena leptocephala* (20).

LIST OF SPECIES

The list below enumaerates all the taxa of macrofungi recorded in the Park in 2000–2007, including the species known from publications dealing with the area of the Park. Among them, 416 were found on pernament plots and 466 outside in permanent plots (including 153 not recorded in permanent plots). Twenty species were found only during the earlier study in the village park in Turew (Bujakiewicz, Kujawa 2000), and 26 are known only from the earlier studies carried out in 3 shelterbelts (Strakulska 2001; Lisiewska, Strakulska 2002).

The nomenclature for Ascomycota follows Chmiel (2006), Hansen and Knudsen (2000), and *Index Fungorum* (2004), while for Basidomycota Knudsen and Vesterholt (2008) and Legon et al. (2005) or the monographs of some genera. Distribution of species is described with the use of ATPOL grid (Zając 1978), adapted for fungi by Wojewoda (2000). Species were grouped into functional groups according to the

classification by Lisiewska (2000), with a slight modification, abbreviations according to Friedrich (2001):

- ectomycorrhizal symbionts (M/s);
- humicolous saprotrophs (S/s), including a few bryophilous species (B);
- litter-inhabiting saprotrophs, growing on the upper and loose layer of litter, consisting of fallen leaves, seeds, fruits, other dead parts of herbs, mosses, fungi, animals, as well as tiny twigs [although Lisiewska (2000) regarded species growing on tiny twigs as lignicolous saprotrophs] (S/l);
- lignicolous saprotrophs, developing on branches, pieces of bark, stumps and logs (S/w);
- parasites, developing on live trees (P/w), herbs (P/p), insects (P/i) or fungi (P/f).

Ectomycorrhizal symbionts were distinguished according to the literature (Agerer 1987-2008; Rudawska 1990, 1993, 2006; Wojewoda 2003; Mleczko 2004; Tedersoo et al. 2006).

For each species, the following data are given: functional group, year of observation, reference, and location (Tabs 1 and 2).

Table 1
Major characteristics of permanent plots in the General Dezydery Chłapowski Landscape Park

No.	ATPOL DB	Forest or locality name	Forest division	Category of community
1	38-85	Błociszewo	-	park I
2	38-85	Błociszewo	-	park II
3	38-86	Błociszewo	-	av. *Aesc*
4	47-37	Choryń	-	park I
5	47-37	Choryń	-	park II
6	48-13	Ćwikłowo	154a	mon. *Frax*
7	48-03	Ćwikłowo	154c	mon. *Pop*
8	37-79	Gołębin St.	-	clump
9	37-87	Gołębin St.	-	av. *Q-ro*
10	37-69	Gorzyczki	-	clump
11	47-45	Racot	181c	mon. *Carp*
12	48-60	Kopaszewo	-	clump
13	48-60	Kopaszewo	-	clump
14	48-60	Kopaszewo	-	park I
15	48-60	Kopaszewo	-	park II
16	48-70	Kopaszewo	-	av. *Aesc*
17	47-59	Kopaszewo	165c	mon. *Fag*
18	47-02	Racot	-	park I
19	47-02	Racot	-	park II
20	47-03	Racot	-	av. *Til*
21	47-44	Racot	191j	mon. *Bet*
22	48-04	Rąbiń	128h	mon. *Rob*
23	48-04	Rąbiń	130c	mon. *Aln*
24	48-23	Rąbiń	-	av. *Til*
25	48-05	Rąbiń	126c	mon. *Lar*
26	48-17	Rąbiń	136j	mon. *Pic*
27	48-34	Rąbiń	-	shelterbelt
28	48-17	Rąbiń	142a	mon. *Pse*
29	48-05	Rąbiń	127b	mon. *Aln*
30	48-05	Rąbiń	127g	mon. *Bet*
31	48-05	Rąbiń	127d	mon. *Frax*
32	48-30	Turew	-	shelterbelt
33	48-11	Turew	-	av. *Q-ro*
34	48-00	Turew	-	shelterbelt

No.	ATPOL DB	Forest or locality name	Forest division	Category of community
35	48-00	Turew	-	park I
36	48-10	Turew	-	park II
37	38-91	Turew	-	shelterbelt
38	38-90	Turew	133i	mon. *Q-ro*
39	38-90	Turew	133b	mon. *Pop*
40	38-91	Turew	133d	mon. *Pin*
41	38-91	Turew	133g	mon. *Lar*
42	38-90	Turew	134h	mon. *Rob*
43	38-90	Turew	134d	mon. *Carp*
44	38-90	Turew	135j	mon. *Q-ru*
45	38-90	Turew	134c	mon. *Q-ru*
46	38-90	Turew	134g	mon. *Pic*
47	38-91	Turew	133d	mon. *Til*
48	38-81	Wronowo	132A	mon. *Fag*
49	47-09	Wyskoć	159a	mon. *Pin*
50	47-08	Wyskoć	160b	mon. *Q-ro*

Abbreviations: av. = avenue; mon. = forest monoculture; park I = plot in cultivated part of a village park; park II = plot in uncultivated part of a village park.

Species of trees: *Aesc = Aesculus hippocastanum*; *Aln = Alnus glutinosa*; *Bet = Betula pendula*; *Carp = Carpinus betulus*; *Fag = Fagus sylvatica*; *Frax = Fraxinus excelsior*; *Lar = Larix decidua*; *Pic = Picea abies*; *Pin = Pinus sylvestris*; *Pop = Populus* sp.; *Pse = Pseudotsuga taxifolia*; *Q-ro = Quercus robur*; *Q-ru = Quercus rubra*; *Rob = Robinia pseudacacia; Til = Tilia cordata*

Table 2
Localities (ATPOL squares) of records outside the permanent plots

No.	ATPOL DB	No.	ATPOL DB	No.	ATPOL DB	No.	ATPOL DB	No.	ATPOL DB
51	37-44	66	38-90	81	47-39	96	48-04	111	48-24
52	37-45	67	38-91	82	47-44	97	48-05	112	48-25
53	37-69	68	38-92	83	47-45	98	48-07	113	48-26
54	37-76	69	38-93	84	47-46	99	48-08	114	48-27
55	37-77	70	47-02	85	47-48	100	48-10	115	48-30
56	37-79	71	47-03	86	47-54	101	48-11	116	48-32
57	37-84	72	47-05	87	47-55	102	48-12	117	48-34
58	37-88	73	47-08	88	47-56	103	48-13	118	48-37
59	37-95	74	47-09	89	47-58	104	48-14	119	48-51
60	37-98	75	47-17	90	47-59	105	48-15	120	48-60
61	37-99	76	47-19	91	47-79	106	48-16	121	48-61
62	38-68	77	47-28	92	48-00	107	48-17	122	48-70
63	38-81	78	47-33	93	48-01	108	48-21	123	48-71
64	38-85	79	47-34	94	48-02	109	48-22	124	48-92
65	38-86	80	47-37	95	48-03	110	48-23	125	49-01

In species list, the following abbreviations were used:

Threat categories: Ex = extinct or probably extinct, E = endangered, V = vulnerable, R = rare, I = indeterminate, P = protected by law (Wojewoda, Ławrynowicz 2006), * new species in Poland

Functional groups:

M/s = mycorrhizal fungi, S/s = humicolous saprotrophs, S/l = litter-inhabiting saprotrophs, S/w = lignicolous saprotrophs, P/p = parasites of herbaceous plants, P/f = parasites of fungi, P/i = parasites of insects, P/w = parasites of woody plants, (B) = bryophilous species.

Published data sources:

B&K 2000 = Bujakiewicz and Kujawa 2000; D&M 1999 = Danielewicz and Maliński 1999; G et al. 1980 = Goszczyński et al. 1980; K&K 1997 = Karg and Kujawa 1997; K 2003a = Kujawa 2003a; K 2003b = Kujawa 2003b; K et al. 2004 = Kujawa et al. 2004; L&S 2002 = Lisiewska and Strakulska 2002; R 2005a = Ronikier 2005a; R 2005b = Ronikier 2005b; S 2001 = Strakulska 2001

ASCOMYCOTA

Aleuria aurantia (Pers.) Fuckel – S/s; 1997, 1999: (B&K 2000), 2000, 2007: 99, 107.
Ascocoryne cylichnium (Tul.) Korf – S/w; 1998: (B&K 2000); ***A. sarcoides*** (Jacq.) J.W. Groves & D.E. Wilson – S/w; 2001-2002, 2007: 11, 21, 92, 103.
Bisporella citrina (Batsch) Korf & S.E. Carp. – S/w; 2000-2002: 38, 45.
Bulgaria inquinans (Pers.) Fr. – S/w; 1999: (B&K 2000).
Ciboria amentacea (Balb.) Fuckel – S/l; 2006: 100; ***C. batschiana*** (Zopf) N.F. Buchw. – S/l; 1999: (B&K 2000), 2000-2001: 33, 36, 38, 50; ***C. viridifusca*** (Fuckel) Höhn. – S/l; 1997: (B&K 2000).
Cistella acuum (Alb. & Schwein.) Svrček – S/l; 2000: 40.
Cordyceps capitata (Holmsk.) Fr. – P/f, **R**; 2000-2001: 11, 45; ***C. entomorrhiza*** (Dicks.) Fr. – P/i; 2002: 6; ***C. ophioglossoides*** (Ehrh.) Fr. – P/f, **R**; 2000: 50.
Crocicreas coronatum (Bull.) S.E. Carp. – S/l; 1999: (B&K 2000), 2000-2001, 2003, 2005: 6, 8 10, 12, 23, 58; ***C. cyathoideum*** (Bull.) S.E. Carp. var. *cyathoideum* – S/l; 2000: 27.
Daldinia concentrica (Bolton) Ces. & De Not. – S/w; 2002: 39.
****Desmazierella*** cf. ***piceicola*** Huhtinen & Y. Mäkinen – S/l; 2000: 26.
Discina ancilis (Pers.) Sacc. – S/w, **R**; 1998: 74.
Dumontinia tuberosa (Hedw.) L.M. Kohn – P/p; 1999 (B&K 2000); 2000, 2002, 2004, 2005: 14, 15, 92, 100.
Elaphomyces granulatus em. Hollós – M/s; 2000: 50; ***E. muricatus*** Fr. – M/s; 2000, 2001: 11, 45.
Encoelia furfuracea (Roth) P. Karst. – S/w; 2007: 100.
****Geopora foliacea*** (Schaeff.) S. Ahmad – S/s; 2003-2004, 2007: 74.
Gyromitra esculenta (Pers.) Fr. – S/s; 2001: 106.
Helvella acetabulum (L.) Quél. – S/s; 2002: 60; ***H. atra*** J. Köenig – S/s; 2004: 107; ***H. crispa*** (Scop.) Fr. – S/s; 1997: (B&K 2000), 2000, 2003: 100; ***H. elastica*** Bull. – S/s; 1998: (B&K 2000), 2006: 100; ***H. ephippium*** Lév. – S/s, **R**; 2000-2001: 8, 34; ***H. lacunosa*** Afzel. – S/s, **R**; 2000-2001, 2006: 48, 50, 58, 107; ***H. macropus*** (Pers.) P. Karst. – S/s; 1998: (B&K 2000), 2000-2001: 21, 30, 34, 39, 47.
Humaria hemisphaerica (F.H. Wigg.) Fuckel – S/s; 1998: (B&K 2000), 2000-2001, 2003, 2005: 9, 11, 13, 29, 30, 34, 47, 48, 50, 100, 107.
Hymenoscyphus albidus (Roberge ex Desm.) W. Phillips – S/l; 2001-2002: 13, 15, 29, 31, 58, 97; ***H. calyculus*** (Sowerby) W. Phillips – S/w; 2000: 97; ***H. epiphyllus*** (Pers.) Rehm ex Kauffman – S/l; 2000: 49; ***H. fructigenus*** (Bull.) Fr. – S/l; 1997-1999: (B&K 2000), 2000-2004: 1, 2, 4, 5, 9, 11, 15, 16, 18, 27, 33, 36, 50, 73, 100, 120, 125; ***H. herbarum*** (Pers.) Dennis – S/l; 2000: 29; ***H. imberbis*** (Bull.) Dennis – S/w; 2000: 23; ***H. immutabilis*** (Fuckel) Dennis – S/l; 2000-2001: 22, 40, 42; ***H. phyllophilus*** (Desm.) Kuntze – S/l; 2000: 65; ***H. scutula*** (Pers.) W. Phillips – S/l; 1999: (B&K 2000), 2000-2007: 6, 7, 8, 9, 10, 27, 31, 35, 58, 60, 73.
Hypoxylon fragiforme (Pers.) J. Kickx f. – S/w; 1998: (B&K 2000), 2001, 2003, 2007: 43, 83, 92; ***H. howeanum*** Peck – S/w; 2000-2002: 11, 31, 43; ***H. multiforme*** (Fr.) Fr. – S/w; 2001: 23.
Lachnellula willkommii (Hartig) Dennis – S/w; 2000, 2002: 25.

Lachnum brevipilosum Baral – S/w; 2002: 31; ***L. virgineum*** (Batsch) P. Karst. – S/l; 2000-2004: 12, 14, 16, 17, 36, 48, 60.

Lanzia luteovirescens (Roberge ex Desm.) Dumont & Korf – S/l; 1999: (B&K 2000), 4, 5, 18, 19, 97.

Melastiza chateri (W.G. Sm.) Boud. – S/s; 2002: 56.

Mollisia amenticola (Sacc.) Rehm – S/l; 1997: (B&K 2000), 2000: 10; ***M. cinerea*** (Batsch) P. Karst. – S/w; 1999: (B&K 2000), 2000-2001: 14, 24, 27, 29, 30.

****Monilinia johnsonii*** (Ellis & Everh.) Honey – S/l; 2000: 27.

Morchella conica Pers. – M?/s, **P**, **R**; 2000-2003 (K 2003b), 2004-2005: 93, 106; ***M. esculenta*** (L.) Pers. – M?/s, **P**, **R**; 2005: 100; ***M. gigas*** (Batsch) Pers. [= *Mitrophora semilibera* (DC.) Lév.] – M?/s, **P**, **R**; 1998-2002: (K&K 1997, B&K 2000, K 2003b), 2000, 2002-2005: 6, 31, 34, 60, 74, 121.

Nectria cinnabarina (Tode) Fr. – S/w; 2001-2003, 2007: 1, 2, 3, 4, 5, 12, 14, 16, 17, 18, 21, 23, 30, 38, 46, 47, 58, 69, 73.

Octospora humosa (Fr.) Dennis – S/s, (B); 2004-2005: 105, 107.

Orbilia xanthostigma (Fr.) Fr. – S/w; 1997: (B&K 2000).

Otidea alutacea (Pers.) Massee – S/s; 1997, 1999: (B&K 2000), 2000, 2003: 100; ***O. onotica*** (Pers.) Fuckel – S/s; 2000: 50.

****Peziza ampliata*** Pers. – S/w; 2000-2002: 47; ***P. arvernensis*** Boud. – S/s; 2002: 17; ***P. badia*** Pers. – S/s; 2000: 100; ***P. depressa*** Pers. – S/s; 2000-2002: 15, 34, 100; ***P. howsei*** (Boud.) Donadini – S/s; 200-2001, 2005-2006: 15, 34, 114; ***P. micropus*** Pers. – S/w; 1997-1998: (B&K 2000), 2000-2002, 2006: 92, 100, 117; ***P. repanda*** Pers. – S/s; 2000: 39; ***P. succosa*** Berk. – S/s; 2000-2001, 2003: 15, 18, 34, 92; ***P. vesiculosa*** Bull. – S/s; 1999-2000: (S 2001, L&S 202), 2000, 2004, 2007: 73, 92.

Pezizella alniella (Nyl.) Dennis – S/l; 2006: 100.

****Pustularia patavina*** (Cooke & Sacc.) Boud. – S/s; 2005-2006: 60.

Rhytisma acerinum (Pers.) Fr. – P/S/l; 2001-2007: 58, 73.

Rutstroemia bulgarioides (Rabenh.) P. Karst. – S/l; 2001: 26, 46; ***R. conformata*** (P. Karst.) Nannf. – S/l; 1999: (B&K 2000), 2000: 29; ***R. sydowiana*** (Rehm) W.L. White – S/l; 1999: (B&K 2000), 2000-2002: 14, 27, 38, 45, 50, 107.

Sclerotinia trifoliorum Erikss. – P/p; 2005: 60.

Scutellinia scutellata (L.) Lambotte – S/w;1997-1998: (B&K 2000), 2001-2004: 13, 29, 35, 92, 93, 96, 97, 120; ***S. trechispora*** (Berk. & Broome) Lambotte – S/s; 2000: 15.

Tapesia fusca (Pers.) Fuckel – S/w; 2000-2001: 13, 15, 17, 29, 43, 44, 47, 80.

Tarzetta cupularis (L.) Lambotte – S/s; 1998: (B&K 2000), 2000-2002, 2004: 8, 15, 18, 19, 23, 24, 29, 31, 35, 48, 100, 107.

Trichophaea gregaria (Rehm) Boud. – S/s; 2006-2007: 58, 60.

Ustulina deusta (Hoffm.) Lind [=*Kretzschmaria deusta* (Hoffm.) P.M.D. Martin] – S/w; 2002-2003, 2007: 17, 19, 20, 45, 48, 92.

Verpa conica (O.F. Müll.) Sw. – S/s, **P**, **R**; 1999-2000, 2002: (K 2003b), 2004: 100.

Xylaria carpophila (Pers.) Fr. – S/l; 2000-2004: 17, 35, 36, 48; ***X. hypoxylon*** (L.) Grev. – S/w; 1997-1998: (B&K 2000), 2000-2003, 2005, 2007: 2, 4, 6, 11, 12, 15, 17, 18, 19, 26, 31, 36, 48, 100; ***X. longipes*** Nitschke – S/w; 2004: 63; ***X. oxyacanthae*** Tul. & C. Tul. – S/l; 2001-2006: 34, 92; ***X. polymorpha*** (Pers.) Grev. – S/w; 1999: (B&K 2000), 2000-2002: 11, 15, 17, 19, 36, 47.

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Agaricus arvensis Schaeff. – S/s; 1999-2000: (B&K 2000, S 2001, L&S 2002), 2000-2007: 3, 7, 12, 20, 24, 33, 58, 65, 73, 80, 100; ***A. augustus*** Fr. – S/s; 2002, 2004: 100, 120; ***A. bitorquis*** (Quél.) Sacc. – S/s; 2000, 2001-2003, 2006: 20, 24, 33, 80, 100, 125; ***A. campestris*** L. – S/s; 1998 (S 2001, L&S 2002), 2001-2002, 2004: 6, 73; ***A. comtulus*** Fr. – S/s, **R**; 2000, 2003-2004, 2007: 73, 92; ***A. essettei*** Bon – S/s; 2004: 92; ****A. litoralis*** (Wakef. & A. Pearson) Pilát – (leg. K. Kujawa) S/s; 2002: 123; ***A.semotus*** Fr. – S/s; 1998: (B&K 2000); ***A. sylvaticus*** Schaeff. – S/s; 2000-2001: 12, 13, 97; ***A. sylvicola*** (Vittad.) Peck – S/s; 1998-2000 (S 2001, L&S 2002), 2000-2002, 2005-2007: 2, 6, 32, 58, 73; ***A. xanthodermus*** Genev. – S/s; 1998, 2000: (S 2001, L&S 2002), 2000, 2002-2004, 2006-2007: 35, 60, 70, 74, 80, 100, 120.

Agrocybe arvalis (Fr.) R. Heim & Romagn. – S/s; 2000 (S 2001, L&S 2002), 2000: 73; ***A. cylindrica*** (DC.) Maire – S/s, **E**; 1999: (B&K 2000); ***A. dura*** (Bolton) Singer – S/s; 2000-2002, 2006-2007: 58, 60; ***A. pediades*** (Fr.) Fayod – S/s; 2001-2007: 27, 58, 60; ***A. praecox*** (Pers.) Fayod – S/s; 2000: (S 2001, L&S 2002), 2000, 2002, 2004-2005: 7, 22, 58, 60, 73; ***A. sphaleromorpha*** (Bull.) Fayod (according to Legon et al. 2005 it is one of the species belonging to *A. praecox* complex) – S/s; 2000: (S 2001, L&S 2002).

Amanita citrina (Schaeff.) Pers. f. *citrina* – M/s; 1997: (B&K 2000), 2000-2002: 11, 17, 43, 44, 45, 50, 90; ***A. excelsa*** (Fr.) P. Kumm. f. *excelsa* – M/s; 2000-2001: 43, 106; ***A. fulva*** (Schaeff.) Fr. – M/s; 2000-2002: 28, 45, 50, 66, 114; ***A. muscaria*** (L.) Lam. var. *muscaria* – M/s; 2000: (S 2001, L&S 2002), 2000-2007: 17, 21, 28, 73, 90, 106; ***A. pantherina*** (DC.) Krombh. – M/s; 2000, 2003, 2006: 9, 43, 80, 100; ***A. phalloides*** (Vaill.) Link var. *phalloides* – M/s; 2000-2001: 9, 11, 24, 33, 43, 63, 90, 100; ***A. porphyria*** Alb. & Schwein. – M/s; 2001, 2003: 26, 113; ***A. rubescens*** Pers. f. *rubescens* – M/s; 1997 (B&K 2000), 2000-2004: 2, 5, 11, 17, 28, 35, 43, 44, 45, 50, 66, 90, 100, 109; ***A. strobiliformis*** (Vittad.) Bertill. – M/s, 2007: 100; ***A. vaginata*** (Bull.) Lam. f. *vaginata* – M/s; 2001: 66.

Ampulloclitocybe [*Clitocybe*] ***clavipes*** (Pers.) Redhead, Lutzoni, Moncalvo & Vilgalys (rev. H. Komorowska) – S/s; 1997, 2000: (B&K 2000, S 2001, L&S 2002), 2000-2003: 16, 25, 26, 28, 38, 40, 41, 49, 82, 86, 114.

Armillaria borealis Marxm. & Korhonen – P/w; 2000-2001: 11; ***A. cepistipes*** Velen. – P/w; 2004: 100; ***A. lutea*** Gillet – P/w; 1997-1998 (B&K 2000, as: *A. mellea* s.l.), 2000-2001: 1, 4, 5, 15, 18, 28, 30, 35, 36, 38, 42, 45, 46; ***A. mellea*** (Vahl.) P. Kumm. s.str. – P/w; 2000, 2004-2006: 92; ***A. ostoyae*** (Romagn.) Herink – P/w; 2003-2006: 66, 100, 112.

Auricularia auricula-judae (Bull.) Wettst. – S/w; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2003: 1, 2, 4, 5, 8, 10, 12, 14, 19, 27, 36, 37, 69.

Auriscalpium vulgare Gray – S/l; 2000-2003, 2005-2007: 23, 26, 28, 40, 49, 50, 58, 68, 73, 82, 83, 86, 114.

Baeospora myosura (Fr.) Singer – S/l; 2001-2004: 26, 40, 46, 47, 49, 79.

Bjerkandera adusta (Willd.) P. Karst. – S/w; 1999-2000: (B&K 2000, S 2001, L&S 2002), 2000-2001, 2003, 2007: 21, 26, 62, 83, 100.

Bolbitius titubans (Bull.) Fr. – S/l; 1999-2000: (S 2001, L&S 2002), 2000-2003: 3, 8, 24, 39, 52, 73, 82, 100, 103, 114.

Boletus edulis Bull. – M/s; 2000-2004, 2006: 9, 21, 24, 43, 44, 48, 50, 66, 73, 83, 90, 100, 114; ***B. luridiformis*** Rostk. var. *luridiformis* – M/s; 2000, 2006: 73, 106; ***B. luridus*** Schaeff. var. *luridius* – M/s; 2000-2001, 2004: 9, 24, 48, 63.

Bovista dermoxantha (Vittad.) De Toni – S/s; 1998-1999: (S 2001, L&S 2002), 2000-2004, 2007: 2, 4, 5, 16, 20, 27, 30, 32, 47, 48, 60, 73, 100, 114; ***B. plumbea*** Pers. – S/s; 1999-2000: (S 2001, L&S 2002); 2002, 47; ***B. nigrescens*** Pers. – S/s; 2000, 2003: 6, 7, 30, 67, 68, 118.

Byssomerulius corium (Pers.) Parmasto – S/w; 1997: (B&K 2000), 2007: 58.

Calocera cornea (Batsch) Fr. – S/w; 2000-2003: 6, 11, 17, 39, 43, 44, 45; ***C. viscosa*** (Pers.) Fr. – S/w; 2000-2003: 25, 26, 28, 41, 46, 62, 66, 82, 80, 86, 98, 100, 114.

Calocybe gambosa (Fr.) Donk f. *gambosa* – S/s; 2000-2006: 3, 6, 8, 20, 27, 60, 114, 120.

Calvatia [*Langermannia*] ***gigantea*** (Batsch) Lloyd – S/s, **P**; (D&M 1999, K&K 1997, K 2003b), 1970: (G et al. 1980, K&K 1997), 1997, 2000, 2002: (B&K 2000, K 2003b), 2005-2006: 19, 77 (leg., det. H. Gołdyn), 81 (leg., det. D. Sobczyk), 84, 91, 100, 120 (leg., det. E. Górna).

Calyptella capula (Holmsk.) Quél. – S/l, **R**; 2000-2001: 31, 35.

Cantharellus cibarius Fr. – M/s; 1987-1996: (K&K 1997), 2000-2003: 28, 40, 44, 45, 50, 62, 66, 73, 114.

Chalciporus piperatus (Bull.) Bataille – M/s; 2000-2001: 28, 45, 90.

Chlorophyllum brunneum (Farl. & Burt.) Vellinga [= *Macrolepiota rhacodes* var. *bohemica* (Wichanský) Bellù & Lanzoni] – S/s; 1998, 2000: (S 2001, L&S 2002); ***Ch.*** [*Macrolepiota*] ***rhacodes*** (Vittad.) Vellinga – S/s; 1998-1999: (B&K 2000, S 2001, L&S 2002), 2000-2002, 2006: 1, 2, 3, 4, 12, 16, 20, 26, 27, 32, 36, 37, 38, 41, 46, 60, 74, 90, 100, 103.

Chondrostereum purpureum (Pers.) Pouzar – S/w; 1999: (B&K 2000), 2001-2002: 21.

****Clavicorona taxophila*** (Thom) Doty – S/s; 2000-2001: 7.

Clavulina cinerea (Bull.) J. Schröt. – S/s; 1997-1998: (B&K 2000), 2000-2001, 2003: 48, 100; ***C. coralloides*** (L.) J. Schröt. – S/s; 2001, 2003: 7, 114.

Clitocybe agrestis Harmaja – S/l, **R**; 1999: (S 2001, L&S 2002); ***C. anisata*** Velen. (det. H. Komorowska) – S/l; 2001: 115; ***C. candicans*** (Pers.) P. Kumm. var. *candicans* – S/l; 1999: (S 2001, L&S 2002), 2000, 2007: 2, 58, 73; ***C. cerussata*** (Fr.) P. Kumm. (according to Legon et al. 2005 it is synonym of *C. phyllophila*) – S/l; 2000: (S 2001, L&S 2002); ***C. ditopus*** (Fr.) Gillet (rev. H. Komorowska) – S/l; 2000-2002: 27, 36; ***C. fragrans*** (With.) P. Kumm. – S/l; 1998-2000: (S 2001, L&S 2002, as: *C. fragrans* et *C. suaveolens*); ***C. metachroa*** (Fr.) P. Kumm. var. *metachroa* – S/l; 1998, 2000: (S 2001, L&S 2002), 2001, 2004, 2007: 73; ***C. nebularis*** (Batsch) P. Kumm. var. *nebularis* – S/s; 1998: (S 2001, L&S 2002), 2000-2002, 2004, 2007: 2, 4, 5, 19, 20, 21, 36, 37, 38, 39, 47, 58, 73, 78, 80, 115; ***C. odora*** (Bull.) P. Kumm. var. *odora* – S/l; 2000: (S 2001, L&S 2002), 2000, 2002-2003, 2005-2007: 2, 21, 23, 38, 73, 100; ***C. phaeophthalma*** (Pers.) Kuyper (rev. H. Komorowska) – S/l, R; 2000-2002: 32, 37, 38, 42; ***C. phyllophila*** (Pers.) P. Kumm. (rev. H. Komorowska) – S/l; 2001: 4, 21; ***C. rivulosa*** (Pers.) P. Kumm. [= *C. dealbata* (Sowerby) P. Kumm.] – S/l; 1998-2000: (S 2001, L&S 2002), 2000, 2007: 20, 58; ***C. trulliformis*** (Fr.) P. Karst. (det. H. Komorowska) – S/s; 2000: 95; ***C. vermicularis*** (Fr.) Quél. – S/l; 1998: (S 2001, L&S 2002); ***C. vibecina*** (Fr.) Quél. – S/l; 2000: (S 2001, L&S 2002), 2001, 2004: 22, 26, 73.

Clitopilus prunulus (Scop.) P. Kumm. – M/s; 2000-2002: 20, 21, 48.

Collybia cirrata (Pers.) Quél. – S/l; 2001, 2003-2005, 2007: 46, 60, 73; ***C. cookei*** (Bres.) J.D. Arnold – S/l; 2001, 2003-2005, 2007: 13, 73, 92; ***C. tuberosa*** (Bull.) P. Kumm. – S/l; 2001: 50.

Conocybe albipes (G.H. Otth) Hauskn. – S/s; 2002, 2005: 60, 120; ***C. mesospora*** Kühner & Watling – S/s; 2000-2001, 2007: 60; ***C. pilosella*** (Pers.) Kühner – S/s; 2000: 31; ***C. pubescens*** (Gillet) Kühner – S/s; 2000: 60; ***C. rickeniana*** P.D. Orton – S/s; 1997: (B&K 2000), 2000-2002, 2005-2006: 3, 7, 12, 13, 15, 18, 19, 34, 73; ***C. semiglobata*** Kühner & Watling – S/s; 2000-20004, 2007: 8, 10, 58, 60, 73, 117; ***C. subovalis*** Kühner & Watling – S/s; Tu, 2007: 60; ***C. subpubescens*** P.D. Orton – S/s; 2001-2002: 33, 38; ***C. tenera*** (Schaeff.) Fayod – S/s; 1998-2000: (S 2001, L&S 2002), 2000-2003: 7, 13, 27, 33, 34, 39, 100, 115; ***C. velutipes*** (Velen.) Hauskn. & Svrček – S/s; 2000, 2003: 37, 79.

Coprinellus [*Coprinus*] ***angulatus*** (Peck) Redhead, Vilgalys & Moncalvo – S/s, 2002: 67; ***C. disseminatus*** (Pers.) J.E. Lange – S/w; 1998-2000: (B&K 2000, S 2001, L&S 2002), 2000-2004, 2006: 6, 8, 10, 12, 19, 30, 31, 34, 80, 92; ***C. domesticus*** (Bolton) Vilgalys, Hopple & Jacq. Johnson – S/w; 1999-2000: (S 2001, L&S 2002), 2000, 2002-2006: 6, 12, 13, 38, 60, 63, 100, 103, 120; ***C. impatiens*** (Fr.) J.E. Lange – S/s; 1997: (B&K 2000), 2000, 2006: 4, 92; ***C. micaceus*** (Bull.) Vilgalys, Hopple & Jacq. Johnson – S/w; 1998-2000: (B&K 2000, S 2001, L&S 2002), 2000-2004, 2006: 1, 5, 6, 7, 12, 13, 15, 18, 22, 30, 34, 37, 39, 40, 47, 63, 66, 73, 83, 89, 97, 98, 100, 120 ; ***C. truncorum*** (Schaeff.) Vilgalys, Hopple & Jacq. Johnson – S/s; 2007: 74; ***C. xanthothrix*** (Romagn.) Vilgalys, Hopple & Jacq. Johnson – S/w; 1998-2000: (S 2001, L&S 2002), 2001, 2003: 24, 37, 67, 68, 82, 86, 100.

Coprinopsis [*Coprinus*] ***atramentaria*** (Bull.) Redhead, Vilgalys & Moncalvo – S/s; 1998-1999 (B&K 2000), 2000-2003: 6, 7, 13, 15, 18, 34, 37, 70, 76, 100; ***C. erythrocephala*** (Lév.) Redhead, Vilgalys & Moncalvo – S/w; 2000-2001: 34; ***C. friesii*** (Quél.) P. Karst. – S/l; 2000, 2002: 29, 110; ****C. insignis*** (Peck) Redhead, Vilgalys & Moncalvo – S/s; 2000, 2004, 2006: 92, 100.

Coprinus comatus (O.F. Müll.) Pers. – S/s; 1998-2000: (S 2001, L&S 2002), 2000, 2002-2004, 2006: 37, 61, 74, 75, 76, 100, 109; ***C. cortinatus*** J.E. Lange – S/s; 1999: (B&K 2000).

Coriolopsis gallica (Fr.) Ryvarden – S/w, **R**; 2002: 31.

Cortinarius alnetorum (Velen.) M.M. Moser – M/s; 1998: (B&K 2000), 2001: 36; ***C. cinnamomeus*** (L.) Gray – M/s; 2000-2001: 26, 28, 49; ***C. helvelloides*** (Fr.) Fr. – M/s; 1998: (B&K 2000); ***C. hemitrichus*** (Pers.) Fr. – M/s; 2000-2001: 39; ***C. torvus*** (Fr.) Fr. – M/s; 2000-2001: 43, 83.

Craterellus cornucopioides (L.) Pers. – M/s; 2006: 114.

Crepidotus lundellii Pilát – S/w; 2001, 2007: 19, 34, 36, 58, 60; ***C. variabilis*** (Pers.) P. Kumm. – S/w; 1999: (B&K 2000), 2000-2003: 10, 11, 19, 29, 30, 34, 36, 38, 42, 43, 45, 47, 50, 82, 83.

Crinipellis scabella (Alb. & Schwein.) Murrill – S/l; 2000-2003, 2005-2007: 9, 20, 24, 27, 33, 37, 58, 60, 73.

Crucibulum laeve (Huds.) Kambly – S/w; 1998-1999: (B&K 2000, S 2001, L&S 2002), 1997, 2000-2003: 1, 2, 5, 11, 35, 36, 70, 81, 100, 114.

Cyathus olla (Batsch) Pers. – S/l; 1998-2000: (B&K 2000, S 2001, L&S 2002), 2000-2007: 3, 4, 9,16, 24, 27, 33, 35, 60, 62, 73; ***C. striatus*** (Huds.) Willd. – S/w; 2000-2004, 2006: 2, 4, 11, 13, 19, 34, 35, 73, 80, 83.

Cystoderma amianthinum (Scop.) Fayod – S/s (B); 2000-2002: 25, 50.

Cystolepiota seminuda (Lasch) Bon – S/s; 1998: (B&K 2000), 2000-2002: 39, 47.

Dacrymyces stillatus Nees. – S/w; 2001-2002, 2004: 4, 17, 18, 23, 28, 34, 37, 41, 42, 43, 44, 45, 46, 73.

Daedalea quercina (L.) Pers. – S/w; 1998: (S 2001, L&S 2002), 2000, 2002-2003: 38, 45, 83, 86, 90, 114, 125.

Daedaleopsis confragosa (Bolton) J. Schröt. – S/w; 2000, 2003: 39, 67, 114.

Delicatula integrella (Pers.) Pat. – S/w; 2000-2001: 15, 23, 29, 31.

Echinoderma [*Lepiota*] ***aspera*** (Pers.) Bon– S/s; 1997: (B&K 2000), 2002: 19; ***E. echinacea*** (J.E. Lange) Bon – S/s, **V**; 2000-2002: 12, 14, 27, 65.

Entoloma araneosum (Quél.) M.M. Moser f. *fulvostrigosum* (Berk. & Broome) Noordel. – S/s; 1998-1999: (B&K 2000), 2000, 2004: 15, 100; ***E. byssisedum*** (Pers.) Donk – S/w, **R**; 1999: (B&K 2000); ****E. cephalotrichum*** (P.D. Orton) Noordel. – S/s; 2001-2002: 38; ***E. clypeatum*** (L.) P. Kumm. f. *clypeatum* – M?/s; 2001-2003: 6, 8; ***E. dysthaloides*** Noordel. – S/s; 2000: 8; ***E. euchroum*** (Pers.) Donk – S/w, **R**; 2000: 23; ***E. excentricum*** Bres. – S/s, **R**; 1999: (S 2001, L&S 2002); ***E. hirtipes*** (Schumach.) M.M. Moser – S/s; 2000, 2004: 6, 16, 100; ***E. incarnatofuscescens*** (Britzelm.) Noordel. – S/s; 2001, 2003, 2006: 100, 103; ***E. lividocyanulum*** Noordel. – S/s; 2001: 6; ***E. nitidum*** Quél. – M/s; 2000: 83; ****E. parasiticum*** (Quél.) Kreisel – (leg. Jerzy Karg), P/f; 1999: 73; ***E. percandidum*** Noordel. – S/s; 2001: 25; ***E. pleopodium*** (Bull.) Noordel. – S/l, **R**; 2000-2001: 30; ***E. politum*** (Pers.) Donk – S/s; 2006: 100; ***E. rhodocalix*** (Lasch) M.M. Moser – S/s, **R**; 2000-2001: 35, 50; ***E. rhodopolium*** (Fr.) P. Kumm. var. *rhodopolium* – S/s; 1997, 1999: (B&K 2000, as: *E. rhodopolium* f. *nidorosum* et *E. rhodopolium*), 2000-2001, 2004: 1, 2, 4, 5, 6, 12, 17, 18, 30, 35, 39, 47; ***E. rusticoides*** (Gillet) Noordel. – S/s, **E**; 2002: 27; ***E. sericeum*** Quél. var. *sericeum* – S/s; 1999: (S 2001, L&S 2002); ***E. turbidum*** (Fr.) Quél. – S/s, **R**; 2002: 28; ***E. undatum*** (Fr.) M.M. Moser – S/s; 2001: 27; ***E. vernum*** S. Lundell – S/s; 2001, 2006: 39, 114.

Exidia glandulosa (Bull.) Fr. [= *E. truncata* Fr.] – S/w, **R**; 1998, 2000: (B&K 2000, S 2001, L&S 2002), 2000-2003, 2005: 18, 38, 41, 47, 50, 70, 86, 100; ***E. plana*** (F.H. Wigg.) Donk. – S/w; 2001-2003, 2005, 2007: 6, 7, 13, 17, 18, 19, 21, 22, 23, 24, 29, 31, 37, 38, 39, 42, 44, 45, 47, 48, 49, 50, 58, 67, 100, 114.

Fistulina hepatica (Schaeff.) Fr. – P/w, **P**, **R**, 1987-1999: (K&K 1997, B&K 2000), 2000-2002, 2006: 66, 92, 120.

Flammulaster carpophilus (Fr.) Earle – S/l, **R**; 2002: 17.

Flammulina velutipes (Curtis.) P. Karst. var. *velutipes* – S/w; 1998, 2000: (B&K 2000, S 2001, L&S 2002), 2000, 2002: 21, 31, 47.

Fomes fomentarius (L.) J.J. Kickx – S/w and P/w; 1997: (B&K 2000), 2000-2003: 11, 26, 30, 39, 47, 48, 51, 60, 83, 96, 98, 100, 107, 114, 120.

Fomitopsis pinicola (Sw.) P. Karst. – S/w; 2005: 84.

Galerina clavata (Velen.) Kühner – S/s, (B); 2000-2006: 58, 60, 73; ***G. hypnorum*** (Schrank) Kühner – S/s, (B); 2000-2001: 26, 28, 46, 50; ***G. marginata*** (Batsch) Kühner s.l. – S/w; 1998: (B&K 2000, as: *G. unicolor*); ***G. mniophila*** (Lasch) Kühner – S/s, (B); 2001-2002: 25; ***G. subclavata*** Kühner – S/s, (B); 2003: 73; ***G. triscopa***

(Fr.) Kühner – S/w, **R**; 2001-2002: 25, 26, 28, 41, 46; ***G. vittiformis*** (Fr.) Singer var. *vittiformis* f. *tetraspora* A.H. Sm & Singer – S/s, (B); 2000-2002: 25, 26, 41.

****Gamundia striatula*** (Kühner) Raithelh. (rev. H. Komorowska) – S/s, (B); 2003-2005, 2007: 92.

Ganoderma applanatum (Pers.) Pat. – S/w; 1998: (B&K 2000), 2002-2003, 2005: 31, 67, 83, 84; ***G. lucidum*** (Curtis) P. Karst. – S/w, **P**, **R**; (K&K 1997); 2003-2004: 58, 73.

Geastrum berkeleyi Massee – (leg. Michał Wójtowski), M?/s, **P**, **Ex**; 2007: 114; ***G. corollinum*** (Batsch) Hollós – (leg. Artur Golis), M?/s, **P**, **E**; 2004, 2007: 63; ***G. coronatum*** Pers. – M?/s, **P**, **V**; 2003-2007: 60; ***G. fornicatum*** (Huds.) Hook. – M?/s, **P**, **E**; 2001, 2003-2007: 4, 60; ***G. rufescens*** Pers. – M?/s, **P**, **E**; 2006-2007: 114; ***G. striatum*** DC. – M?/s, **P**, **E**; 2000-2002: (K 2003a), 2003-2007: 60, 63, 75, 115 (leg. D. Sobczyk).

Gloeophyllum odoratum (Wulfen) Imazeki – S/w; 1997, 2000: (B&K 2000), 2003-2004, 2007: 100.

Gomphidius glutinosus (Schaeff.) Fr. – M/s, **R**; 2007: 60; ***G. roseus*** (Fr.) P. Karst. – M/s, **R**; 2005: 106.

Grifola frondosa (Dicks.) Gray – P/w, **P**, **V**; 1996, 2001: (K&K 1997, K 2003b), 2004-2007: 92.

Gymnopilus penetrans (Fr.) Murrill – S/w; 2000-2002: 40; ***G. spectabilis*** (Weinm.) A.H. Sm. – S/w; 2000-2004: 34, 55, 67, 100.

Gymnopus [*Setulipes*] ***androsaceus*** (L.) Antonín & Noordel. – S/l; 1998: (S 2001, L&S 2002), 2000-2004: 25, 26, 28, 49, 50, 52, 58, 73, 82, 114; ***G. aquosus*** (Bull.) Antonín & Noordel. – S/l; 2004, 2007: 66, 73; ***G. brassicolens*** (Romagn.) Antonín & Noordel. – S/l; 2000-2003: 7, 9, 12, 14, 16, 21, 22, 42, 114; ***G. confluens*** (Pers.) Antonín, Halling & Noordel. – S/l; 1998-1999: (B&K 2000, S 2001, L&S 2002), 2001, 2003, 2005-2007: 100; ***G. dryophilus*** (Bull.) Murrill – S/l; 1997-2000: (B&K 200, S 2001, L&S 2002), 2000-2007: 2, 4, 6, 7, 9, 12, 16, 21, 22, 26, 30, 31, 32, 33, 35, 36, 38, 39, 40, 41, 42, 46, 47, 49, 50, 51, 54, 58, 62, 67, 68, 73, 86, 89, 90, 96, 98, 100, 114, 120; ***G. erythropus*** (Pers.) Antonín, Halling & Noordel. – S/w; 1999: (S 2001, L&S 2002), 2000-2002: 4, 5, 11, 14, 18, 22, 28, 45; ***G. fusipes*** (Bull.) Gray – P/w; 2006: 114; ***G. hariolorum*** (Bull.) Antonín, Halling & Noordel. – S/l; 2001: 7; ***G. hybridus*** (Kühner & Romagn.) Antonín & Noordel. – S/l; 1998: (S 2001, L&S 2002); ***G. ocior*** (Pers.) Antonín & Noordel. – S/s, **E**; 1999: (B&K 2000), 2000-2003, 2005-2006: 6, 7, 16, 25, 39, 40, 49, 58, 66, 73, 80, 90; ***G. peronatus*** (Bolton) Antonín, Halling & Noordel. – S/l; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2003: 2, 3, 4, 5, 11, 17, 27, 28, 33, 35, 36, 41, 44, 45, 46, 48, 50, 62, 67, 68, 73, 82, 87, 100, 114.

Gyrodon lividus (Bull.) P. Karst. – M/s, **R**; 2000, 2003: 23, 96.

Gyroporus castaneus (Bull.) Quél. – M/s, **R**; 2000-2001: 83; ***G. cyanescens*** (Bull.) Quél. – M/s, **R**; 1998, 2001, 2006: 73, 74.

Handkea excipuliformis (Scop.) Kreisel – S/s; 1998-2000: (S 2001, L&S 2002), 2000-2001, 2005, 2007: 5, 7, 12, 24, 32, 37, 39, 58, 73, 88; ***H. utriformis*** (Bull.) Pers. – S/s; 1999: (S 2001, L&S 2002), 2001, 2004, 2007: 58, 111, 112.

Hapalopilus nidulans (Fr.) P. Karst. – S/w; 2000-2002: 2, 14, 21, 25, 30, 39, 44, 45, 47, 66, 107.

Hebeloma crustuliniforme (Bull.) Quél. – M/s; 1999: (S 2001, L&S 2002), 2000-2001, 2003-2004: 12, 58, 73, 100; ***H. mesophaeum*** (Pers.) Quél. – M/s; 2000-2007: 58, 60, 73; ***H. sacchariolens*** Quél. – M/s; 1999: (B&K 2000, S 2001, L&S 2002); ***H. sordescens*** Vesterh. – M/s; 1999: (B&K 2000); ***H. velutipes*** Bruchet [= *H. longicaudum* (Fr.) ss. Lange.] – M/s; 1998-1999: (S 2001, L&S 2002).

Hemipholiota populnea (Pers.) Bon – S/w; 2004: 111, 112.

Heterobasidion annosum (Fr.) Bref. s.l. – P/w and S/w; 2000-2002: 25, 28, 35, 40, 41, 47, 49, 50.

****Hohenbuehelia cyphelliformis*** (Berk.) O.K. Mill. – S/l; 2001: 58; ***H. fluxilis*** (Fr.) P.D. Orton – S/w, **R**; 1997, 1999: (B&K 2000), 2000-2002: 2, 6, 29, 39, 42, 36; ***H. mastrucata*** (Fr.) Singer – S/w; 2001: 38, 43, 45.

Hydropus floccipes (Fr.) Singer – S/s; 2006: 100.

Hygrocybe conica (Schaeff.) P. Kumm. var. *conica* – M/s; 2000-2001, 2006: 6, 100; ***H. insipida*** (J.E. Lange) M.M. Moser – M/s, **E**; 2000-2001: 6.

Hygrophoropsis aurantiaca (Wulfen) Maire – S/w; 2000: (S 2001, L&S 2002), 2000, 2002-2003: 25, 26, 40, 41, 46, 49, 50, 52, 83, 87, 98, 107.

Hygrophorus hypothejus (Fr.) Fr. – M/s, **I**; 2004: 79.

Hymenochaete rubiginosa (Dicks.) Lév. – S/w; 2000-2001, 2003: 50, 86.

Hypholoma fasciculare (Huds.) P. Kumm. var. *fasciculare* – (rev. Z. Heinrich), S/w; 1997-1999: (B&K 2000, S 2001, L&S 2002), 2000-2005: 9, 11, 17, 21, 22, 25, 26, 28, 30, 35, 38, 39, 40, 41, 42, 43, 44, 45, 47, 49, 50, 67, 73, 82, 87, 89, 90, 97, 100, 102, 104, 114; ***H. lateritium*** (Schaeff.) P. Kumm. – (rev. Z. Heinrich), S/w; 2000-2003, 2006: 17, 25, 26, 28, 38, 45, 50, 60, 98, 114.

Infundibulicybe [*Clitocybe*] ***gibba*** (Pers.) Harmaja (rev. H. Komorowska) – S/s; 1998-2000: (S 2001, L&S 2002), 2000-2002: 38, 39, 50.

Inocybe auricoma (Batsch) J.E. Lange – M/s; 2000-2002, 2004, 2007: 12, 21, 39, 58; ***I. bongardii*** (Weinm.) Quél. – M/s; 2000: (S 2001, L&S 2002); ***I. calida*** Velen. – M/s; 2000: 18; ***I. calospora*** Quél. – (rev. A. Ronikier), M/s, **V**; 2000-2002 (R 2005a); ***I. cincinata*** (Fr.) Quél. var. *major* (S. Petersen) Kuyper [= *I obscura* (Pers.) Gillet – M/s; 2007: 60; ***I. curvipes*** P. Karst. – M/s; 1998-2000: (S 2001, L&S 2002), 2000-2005: 58, 60, 73; ***I. dulcamara*** (Alb. & Schwein.) P. Kumm. – M/s; 2003: 107; ***I. erubescens*** A. Blytt – M/s; 1999: (B&K 2000), 2001-2002, 2004: 34, 48, 63, 100; ***I. fuscidula*** Velen. var. *fuscidula* – M/s; 2000-2001, 2004: 34, 114; ***I. geophylla*** (Pers.) P. Kumm. – M/s; 1997-1998: (B&K 2000), 2000-2001: 12, 20, 24, 100; ***I. grammata*** Quél. & Le Bret. – M/s, **V**; 1999: (S 2001, L&S 2002); ***I. hirtella*** Bres. – M/s; 2000-2001: 48; ***I. lacera*** (Fr.) P. Kumm. var. *lacera* – M/s; 2000, 2002, 2004: 11, 44, 45, 58, 73; ***I. lanuginosa*** (Bull.) P. Kumm. – M/s; 2000-2002: 28, 43, 50; ***I. lilacina*** (Peck.) Kauffman [= *I. geophylla* var. *lilacina* Gillet] – M/s; 1997-1998: (B&K 2000); ***I. napipes*** J.E. Lange – M/s; 1999-2000: (S 2001, L&S 2002), 2000: 7; ***I. perlata*** (Cooke) Sacc. – M/s; 1997-1999: (B&K 2000), 2000-2004: 8, 20, 34, 80, 100; ***I. petiginosa*** (Fr.) Gillet – M/s; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2001: 73; ***I. posterula*** (Britzelm.) Sacc. – M/s;2001, 2004, 2007: 58, 60 73; ***I. praetervisa*** Quél. – M/s; 2000-2002: 31; ***I. pusio*** P. Karst. – M/s; 2000-2001: 20, 28; ***I. rimosa*** (Bull.) P. Kumm. – M/s; 1998: (B&K 2000), 2000-2002: 29, 47, 48, 58, 100; ***I. squamata*** J.E. Lange – M/s, R; 2000-2001: 29, 97.

Inonotus radiatus (Sowerby) P. Karst. – S/w; 2001: 23.

Kuehneromyces mutabilis (Schaeff.) Singer & A.H. Sm. – S/w; 1997-1999: (B&K 2000), 2000-2001, 2003-2004: 21, 43, 47, 67, 113.

Laccaria amethystina Cooke – M/s; 1997-1999: (B&K 2000), 2000-2002: 11, 17, 43, 50; ***L. bicolor*** (Maire) P.D. Orton – M/s; 1997-1999: (B&K 2000, S 2001, L&S 2002), 2000: 45; ***L. laccata*** (Scop.) Berk. & Broome – M/s; 1999-2000: (S 2001, L&S 2002), 2000-2005: 2, 5, 9, 11, 12, 17, 21, 25, 26, 28, 30, 33, 34, 35, 36, 39, 43, 44, 45, 46, 58, 73; ***L. proxima*** (Boud.) Pat. – M/s; 1998-2000: (S 2001, L&S 2002), 2003-2004: 73; ***L. tortilis*** (Bolton) Cooke – M/s; 1999-2000: (B&K 2000, S 2001, L&S 2002), 2000-2002, 2004: 39, 58, 73.

Lachnella alboviolascens (Alb. & Schwein.) Fr. – S/w; 2005, 2007: 58, 74.

Lacrymaria lacrymabunda (Bull.) Pat. – S/s; 1998-1999: (B&K 2000), 2000, 2002-2004: 13, 100, 120.

Lactarius blennius (Fr.) Fr. – M/s; 1997-1999: (B&K 2000), 2000-2001: 17, 35, 48; ***L. camphoratus*** (Bull.) Fr. – M/s; 2000-2002: 43, 44, 45, 50, 66; ***L. chrysorrheus*** Fr. – M/s, **R**; 2000-2001: 44, 50; ***L. deliciosus*** (L.) Gray – M/s; 1996, 1998: (K&K 1997, S 2001, L&S 2002); ***L. fluens*** Boud. – M/s; 2001: 5; ***L. glyciosmus*** (Fr.) Fr. – M/s; 1999: (S 2001, L&S 2002), 2001, 2004, 2006: 39, 73; ***L. necator*** (Bull.) P. Karst. – M/s; 1998: (S 2001, L&S 2002), 2000, 2004, 2006-2007: 39, 47, 73, 96; ***L. obscuratus*** (Lasch) Fr. – M/s; 2001: 36; ***L. omphaliformis*** Romagn. – M/s; 2000-2002: 23, 29; ***L. pubescens*** (Schrad.) Fr. – M/s; 2007: 58; ***L. pyrogalus*** (Bull.) Fr. – M/s; 2001-2002: 35, 100; ***L. quietus*** (Fr.) Fr. – M/s; 1998, 2000: (S 2001, L&S 2002), 2000-2003: 2, 9, 22, 38, 40, 50, 66, 73, 83, 86, 100; ***L. rufus*** (Scop.) Fr. – M/s; 2000-2003: 28, 46, 114; ***L. tabidus*** Fr. [= *L. theiogalus* (Bull.) Gray ss. Neuhoff] – M/s; 2000-2003: 25, 26, 30, 43, 44, 45, 51, 67, 114; ***L. torminosus*** (Schaeff.) Pers. – M/s; 2001-2002: 58, 73.

Laetiporus sulphureus (Bull.) Bondartsev & Singer – P/w; 1997, 1999: (B&K 2000), 2000-2006: 57, 60, 67, 68, 70, 80, 92, 94, 95, 97, 100, 115, 120.

Leccinum pseudoscabrum (Kallenb.) Šutara – M/s; 2001: 11; ***L. scabrum*** (Bull.) Gray – M/s; 2000, 2003, 2005, 2007: 73, 114.

Lentinus tigrinus (Bull.) Fr. – S/w, **R**; 2000, 2003: 96, 97.

Lepiota brunneoincarnata Chodat & C. Martín – S/s, **V**; 2000-2002: 8, 10, 13; ***L. castanea*** Quél. – S/s; 2001, 2006: 21, 30, 39, 114; ***L. clypeolaria*** (Bull.) P. Kumm. – S/s; 2000-2001: 30, 39; ***L. cristata*** (Bolton) P. Kumm. – S/s; 1997: (B&K 2000), 2001-2004, 2006: 8, 12, 13, 58, 60, 100; ***L. echinella*** Quél. & G.E. Bernard [= *L. setulosa* J.E. Lange] – S/s; 2006: 100; ***L. fuscovinacea*** F.H. Møller & J.E. Lange – S/s; 2003: 92; ***L. griseovirens*** Maire [= *L. pseudofelina* J.E. Lange] – S/s, **E**; 1998: (B&K 2000), 2001-2002, 2006: 27, 100; ***L. lilacea*** Bres. – S/s, **Ex**; 2000-2001, 2006: 12, 13, 18, 100; ***L. magnispora*** Murrill – S/s; 2000, 2002, 2004: 23, 66, 97; ***L. subgracilis*** Kühner – S/s; 2000: (S 2001, L&S 2002); ***L. subincarnata*** J.E. Lange – S/s; 1998: (S 2001, L&S 2002), 2000-2002: 8, 12, 13, 20, 27.

Lepista flaccida (Sowerby.) Pat. – (rev. H. Komorowska), S/l; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2002: 2, 3, 4, 5, 7, 27, 32, 38; ***L. nuda*** (Bull.) Cooke – S/s; 1998, 2000: (S 2001, L&S 2002), 2000-2002, 2004, 2006-2007: 4, 5, 23, 27, 35, 37, 38, 58, 73, 80, 100; ***L. saeva*** (Fr.) P.D. Orton – S/s; 2000-2002: 8, 13, 19, 20; ***L. sordida*** (Schumach.) Singer – S/s; 2000: 73.

Leucoagaricus leucothites (Vittad.) Wasser var. *leucothites* – S/s; 1998: (S 2001, L&S 2002), 2001, 2004, 2006: 58, 92, 93; ****L. melanotrichus*** (Malençon & Bertault) Trimbach – S/s; 2006: 100.

Lycoperdon lividum Pers. – S/s; 2006-2007: 73; ***L. molle*** Pers. – S/s; 2000-2002, 2005: 12, 39, 50, 60; ***L. nigrescens*** Pers. – S/s; 2002, 2004: 49, 79; ***L. perlatum*** Pers – S/s; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2007: 2, 5, 9, 12, 17, 24, 25, 28, 30, 32, 35, 37, 38, 39, 40, 41, 49, 50, 58, 73, 87, 100; ***L. pyriforme*** Schaeff. – S/w; 1997, 2000: (B&K 2000, S 2001, L&S 2002), 2000-2004: 39, 42, 47, 50, 73; ***L. umbrinum*** Pers. – S/s; 2000-2001: 11, 49, 50.

Lyophyllum fumosum (Pers.) P.D. Orton – S/s; 2000-2002: 48.

****Macrocystidia cucumis*** (Pers.) Joss. var. *latifolia* (J.E. Lange) Imazeki & Hongo – S/s; 2000-2007: 7, 27, 58, 60, 73.

Macrolepiota mastoidea (Fr.) Singer – S/s; 2000: 32; ***M. procera*** (Scop.) Singer – S/s; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2004, 2006: 2, 3, 7, 16, 21, 27, 30, 37, 38, 39, 47, 58, 64, 66, 67, 73, 74, 79, 90, 95, 100, 107, 115, 122.

Macrotyphula fistulosa (Holmsk.) R.H. Petersen – S/w, **R**; 2000-2004: 8, 23, 29, 73, 112; ***M. juncea*** (Fr.) Berthier – S/l, **R**; 2000-2001: 23, 38, 50.

Marasmiellus vaillantii (Pers.) Singer – S/l; 2000-2003: 2, 9, 14, 18, 31, 36, 47, 50, 87.

Marasmius anomalus Lasch var. *anomalus* – S/l; 2000: 3; ***M. collinus*** (Scop.) Singer – S/s; 2000: (S 2001, L&S 2002); ***M. curreyi*** Berk. & Broome – S/l; 2000-2007: 3, 29, 33, 37, 58, 60, 73, 82, 90, 105; ****M. epiphylloides*** (Rea) Sacc. & Trotter – S/l; 2005: 100; ***M. epiphyllus*** (Pers.) Fr. – S/l; 2000-2003, 2007: 6, 21, 23, 28, 29, 30, 31, 60, 69; ***M. oreades*** (Bolton) Fr. – S/s; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2007: 7, 8, 9, 12, 16, 20, 24, 27, 31, 33, 37, 51, 58, 62, 67, 68, 73, 78, 100, 105, 114, 120, 125; ***M. rotula*** (Scop.) Fr. – S/w; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2004, 2006: 1, 2, 4, 5, 6, 8, 12, 13, 14, 15, 18, 19, 27, 33, 35, 36, 62, 68, 73, 80, 86, 87, 100, 120, 125; ***M. setosus*** (Sowerby) Noordel. – S/l, **V**; 1997-1999: (B&K 2000), 2000-2001, 2003: 35, 36, 48, 100; ***M. torquescens*** Quél. – S/l; 1999: (B&K 2000), 2000-2002: 1, 2, 5, 6, 13, 14, 15, 18, 35, 36; ***M. wynnei*** Berk. & Broome – S/s; 2000: 20.

Melanoleuca brevipes (Bull.) Pat. – S/s; 2000: (S 2001, L&S 2002), 2000, 2002-2005: 76, 100, 120; ***M. cognata*** (Fr.) Konrad & Maubl. – S/s; 1998-1999: (B&K 2000), 2000: 92; ***M. excissa*** (Fr.) Singer var. *excissa* – S/s; 1999-2000: (S 2001, L&S 2002), 2000: 12; ***M. grammopodia*** (Bull.) Pat. – S/s; 2001: 58; ***M. melaleuca*** (Pers.) Murrill – S/s; 1998: (S 2001, L&S 2002); ***M. polioleuca*** (Fr.) Kühner f. *polioleuca* – S/s; 2000-2001: 37, 48, 58; ****M. polioleuca*** (Fr.) Kühner f. *pusilla* Boekhout & Kuyper – S/s; 2001, 2004-2005: 12, 13, 16, 60, 66, 73.

****Melanomphalia nigrescens*** M.P. Christ. – M?/s; 2003-2004, 2006: 100.

Melanophyllum haematospermum (Bull.) Kreisel – S/s, **R**; 2000-2001, 2003: 6, 12, 13, 92, 103.

Meripilus giganteus (Pers.) P. Karst. – P/w, **P**; 1999-2002: (B&K 2000, K 2003b); 2003-2006: 85, 100.

Mycena acicula (Schaeff.) P. Kumm. – S/l; 1997, 1999: (B&K 2000), 2000-2004, 2006: 1, 6, 10, 12, 13, 14, 15, 18, 19, 29, 30, 31, 34, 35, 36, 58, 80, 100, 114; ***M. adscendens*** (Lasch) Maas Geest. – S/l, **E**; 2000-2002: 14, 27; ***M. aetites*** (Fr.) Quél. – S/l; 1997: (B&K 2000), 2000, 2002, 5, 30; ***M. amicta*** (Fr.) Quél. – S/l; 2001: 73; ***M. arcangeliana*** Bres. – S/w; 1998: (B&K 2000); ***M. aurantiomarginata*** (Fr.) Quél. – S/l, **V**; 1999:

(B&K 2000); ***M. cinerella*** (P. Karst.) P. Karst. – S/l; 2000-2001, 2003: 11, 25, 28, 40, 41, 46, 50, 107; ***M. citrinomarginata*** Gillet – S/l; 1999: (B&K 2000), 2002: 25; ***M. epipterygia*** (Scop.) Gray var. *epipterygia* – S/l; 2000-2002, 2004: 25, 26, 28, 30, 39, 40, 41, 46, 47, 50, 78; ***M. erubescens*** Höhn. – S/w; 1998: (S 2001, L&S 2002), 2000-2002: 4, 5, 12, 18; ***M. filopes*** (Bull.) P. Kumm. – S/l; 2000: (S 2001, L&S 2002), 2001-2002, 2004: 14, 16, 23, 30, 36, 38, 47, 48, 73; ***M. flavescens*** Velen. – S/l, **R**; 1999: (B&K 2000), 2001: 13; ***M. flavoalba*** (Fr.) Quél. – S/l; 2000-2001: 19, 26; ***M. galericulata*** (Scop.) Gray – S/w; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2006: 2, 5, 6, 12, 13, 15, 19, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 34, 37, 38, 40, 41, 42, 45, 46, 47, 48, 51, 60, 67, 68, 83, 97, 98, 100, 107, 114, 115; ***M. galopus*** var. *candida* J. E. Lange ss. Robich (2003) – S/l; 2001: 26; ***M. galopus*** (Pers.) P. Kumm. var. *galopus* ss. Robich (2003) – S/l; 1997-1999: (B&K 2000, S 2001, L&S 2002), 2000-2003: 2, 5, 11, 12, 13, 15, 17, 22, 23, 25, 26, 28, 32, 35, 36, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50, 67, 68, 83, 114; ***M. galopus*** var. *leucogala* (Cooke) J.E. Lange ss. Robich (2003) – S/l; 2000-2002: 23, 25, 39; ***M. haematopus*** (Pers.) P. Kumm. – S/w; 2000-2004: 23, 31, 60, 68, 96; ***M. inclinata*** (Fr.) Quél. – S/w; 2000: 6; ***M. leptocephala*** (Pers.) Gillet – S/l; 1998-1999: (B&K 2000), 2000-2003, 2006-2007: 1, 2, 5, 6, 7, 12, 14, 16, 21, 22, 23, 25, 27, 30, 32, 33, 35, 36, 38, 39, 40, 41, 42, 43, 47, 58, 73, 83, 114; ***M. leptophylla*** (Peck) Sacc. – S/w, **R**; 2000: 15; ***M. metata*** (Fr.) P. Kumm. – S/l; 2000: (S 2001, L&S 2002), 2000-2002: 25, 26, 28, 35, 46, 49; ***M. niveipes*** (Murrill) – S/w; 1999: (S 2001, L&S 2002), 2001-2002: 23; ***M. olida*** Bres. – S/w, **V**; 2001-2002: 12, 13, 14; ***M. olivaceomarginata*** (Massee) Massee – S/l; **R**; 2000-2002, 2006-2007: 9, 12, 16, 18, 20, 21, 23, 27, 31, 36, 47, 73; ***M. polyadelpha*** (Lasch) Kühner – S/l; 2000-2001: 2, 6, 9, 23; ***M. polygramma*** (Bull.) Gray – S/w; 1997, 1999: (B&K 2000, S 2001, L&S 2002), 2001-2002: 17, 36, 50, 100; ***M. pseudocorticola*** Kühner – S/w, **V**; 1997, 1999: (B&K 2000), 2000: 13; ***M. pura*** (Pers.) P. Kumm. – S/s; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2004, 2006-2007: 1, 5, 7, 16, 17, 21, 22, 23, 25, 28, 30, 35, 36, 37, 38, 39, 40, 41, 42, 47, 51, 58, 73, 86, 97, 100; ***M. pura*** f. *alba* (Gillet) Kühner ss. Robich (2003) – S/l; 2000-2001: 22, 23, 41; ***M. purpureofusca*** (Peck) Sacc. – S/w, **V**; 1997-1998: (B&K 2000), 2000-2002: 11, 25, 26, 28, 41, 43, 50, 114; ***M. rosea*** (Schumach.) Gramberg – S/s; 1998-1999: (S 2001, L&S 2002), 2005: 73; ***M. sanguinolenta*** (Alb. & Schwein.) P. Kumm. – S/l; 1998-2000: (B&K 2000, S 2001, L&S 2002), 2000-2004, 2006-2007: 2, 4, 6, 11, 12, 16, 17, 21, 22, 23, 25, 26, 27, 28, 29, 30, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50, 60, 67, 68, 73, 79, 82, 83, 86, 97, 98, 100, 114; ***M. speirea*** (Fr.) Gillet – S/l; 1997-1999: (B&K 2000), 2000-2004, 2006: 1, 4, 6, 8, 12, 13, 15, 18, 19, 23, 31, 34, 35, 36, 97, 100; ***M. stipata*** Maas Geest. & Schwöbel – S/w; 1998: (B&K 2000), 2000-2003: 35, 60, 114; ***M. stylobates*** (Pers.) P. Kumm. – S/l; 1998: (S 2001, L&S 2002), 2000-2007: 6, 9, 27, 28, 33, 35, 36, 39, 40, 41, 46, 49, 50, 58, 73, 83, 82, 86, 114; ***M. tintinabulum*** (Fr.) Quél. – S/w; 1997, 1999: (B&K 2000), 2002, 2005, 2007: 100; ***M. vitilis*** (Fr.) Quél. – S/l; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2004, 2006-2007: 1, 2, 4, 5, 9, 11, 15, 18, 19, 21, 23, 27, 29, 30, 35, 36, 38, 44, 45, 47, 49, 50, 60, 67, 73, 80, 100; ***M. zephirus*** (Fr.) P. Kumm. – S/l; 1998-1999: (B&K 2000), 2000-2004: 11, 17, 25, 26, 28, 38, 40, 41, 46, 79, 107.

Mycenastrum corium (Guers.) Desv. – S/s, **V**; 2000, 2002-2004: (K et al. 2004), 2004-2007: 112.

Mycenella bryophila (Voglino) Singer – S/s; 2000-2001: 6, 13, 31, 34, 48.

Mycenitis [*Marasmius*] ***scorodonius*** (Fr.) Wilson & Desjardin – S/l; 2000-2003: 4, 5, 16, 17, 26, 30, 35, 39, 41, 43, 46, 47, 51, 68, 83, 83, 86, 93, 97, 114.

Myxomphalia maura (Fr.) Hora – S/s, **I**; 2002: 3.

Naucoria celluloderma P.D. Orton – M/s; 1998: (B&K 2000), 2000, 2002: 29; ***N. escharioides*** (Fr.) P. Kumm. – M/s; 1997-1999: (B&K 2000), 2000-2002: 23, 29, 30, 36; ***N. scolecina*** (Fr.) Quél. – M/s; 1997-1999: (B&K 2000), 2000-2003: 23, 29, 97; ***N. subconspersa*** P.D. Orton – M/s; 1998: (B&K 2000), 2000: 15, 23, 29.

Neolentinus lepideus (Fr.) Redhead & Ginns – S/w; 2001-2003: 89, 99, 100, 107, 119; ***N. schaefferi*** (Weinm.) Redhead & Gins [= *Lentinus cyathiformis* (Schaeff.) Bres.] – S/w, **E**; 2000: 80.

Ossicaulis lignatilis (Pers.) Redhead & Ginns – S/w, **V**; 1997: (B&K 2000), 2001-2002: 2, 18, 92.

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Panaeolus acuminatus (Schaeff.) Gillet – S/s; 2000-2001: 32; ***P. cinctulus*** (Bolton) Sacc. [= *P. subbalteatus* (Berk. & Broome) Sacc.] – S/s; 2006: 112; ***P. fimicola*** (Pers.) Gillet – S/s; 2000: (S 2001, L&S 2002).

Panellus mitis (Pers.) Singer – S/w; 2003-2004: 79, 107.

Panus conchatus (Bull.) Fr. – S/w, **R**; 2004: 107.

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Pholiotina arrhenii (Fr.) Singer – S/s; 2001-2002: 1, 6, 13, 19; ***Ph.*** [*Conocybe*] ***mairei*** (Watling) Enderle – S/s; 1999: (B&K 2000); ***Ph. vexans*** (P.D. Orton) Bon [= *Conocybe blattaria* (Fr.) Kühner] – S/s; 2000-2001: 58.

Piptoporus betulinus (Bull.) P. Karst. – S/w; 1999: (B&K 2000), 2000-2003: 30, 51, 54, 62, 67, 76, 83, 100, 113.

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Pluteus atromarginatus (Konrad) Kühner – S/w; 2003: 124; ***P. cervinus*** (Schaeff.) P. Kumm. – S/w; 1997-1999: (B&K 2000, S 2001, L&S 2002), 2000-2004: 2, 11, 17, 23, 29, 30, 31, 35, 38, 39, 40, 41, 44, 45, 46, 47, 52, 63, 67, 69, 73, 80, 92, 96, 97, 98, 117; ***P. cinereofuscus*** J.E. Lange – S/s; 2000: 6, 47; ***P. ephebeus*** (Fr.) Gillet – S/s, **R**; 2000, 2003-2004, 2006: 31, 34, 67, 100; ***P. hispidulus*** (Fr.) Gillet – S/w, **R**; 2000-2002: 29; ***P. insidiosus*** Vellinga & Schreurs – S/w; 2000-2002: 29, 31; ***P. nanus*** (Pers.) P. Kumm. – S/s; 2000-2002, 2004-2006: 1, 7, 10, 13, 20, 29, 30, 31, 39, 60, 67, 100, 114; ***P. nanus*** (Pers.) P. Kumm. f. *griseopus* (P.D. Orton) Vellinga ss. Vellinga (1990) – S/s; 2000-2001: 9, 37; ***P. petasatus*** (Fr.) Gillet – S/w, **R**; 2000, 2002, 2004, 2007: 1, 89, 100, 104; ***P. phlebophorus*** (Ditmar) P. Kumm. – S/w; 2000: 100; ***P. plautus*** (Weinm.) Gillet ss Vellinga (1990) – S/w, **I**; 1998: (B&K 2000), 2000-2003: 6, 11, 12, 13, 23, 29, 31, 39, 83, 86, 97; ***P. podospileus*** Sacc. & Cub. – S/w; 1999: (B&K 2000), 2001-2003, 2006-2007: 13, 29, 58, 97, 100; ***P. podospileus*** Sacc. & Cub. f. *minutissimus* (Maire) Vellinga ss Vellinga (1990) – S/s i S/w; 2000-2002, 2004, 2006-2007: 6, 10, 15, 50, 58, 60, 100; ***P. romellii*** (Britzelm) Sacc. – S/w; 1999: (B&K 2000), 2000-2003, 2006-2007: 6, 18, 24, 34, 29, 31, 39, 73, 80, 97, 114; ***P. salicinus*** (Pers.) P. Kumm. – S/w; 2000: (S 2001, L&S 2002), 2000-2001, 2004: 29, 30, 67; ***P. thomsonii*** (Berk. & Broome) Dennis – S/w; 2002: 31; ***P. umbrosus*** (Pers.) P. Kumm. var. *umbrosus* – S/w; 1997-1998: (B&K 2000).

Polyporus arcularius (Batsch) Fr. – S/w; 1998: (B&K 2000), 2000, 2002-2003: 11, 18, 25, 42, 44, 63, 73, 82, 90; ***P. brumalis*** (Pers.) Fr. – S/w; 2000: (S 2001, L&S 2002), 2000-2002, 2004, 2006-2007: 21, 23, 25, 41, 73, 107; ***P. ciliatus*** Fr. – S/w; 2000-2001, 2003, 2006: 21 25, 51, 66, 83, 107; ***P. durus*** (Timerm.) Kreisel [= *P. badius* (Pers.) Schwien.] – S/w; 2000, 2003-2004: 39, 63, 80, 100; ***P. leptocephalus*** (Jacq.) Fr. [= *P. varius* (Pers.) Fr.] – S/w; 1997: (B&K 2000); ***P. squamosus*** (Huds.) Fr. – P/w; 1997-2000: (B&K 2000, S 2001, L&S 2002), 2000-2004, 2006: 1, 18, 63, 64, 70, 80, 92, 100, 120, 125.

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Pseudoclitocybe expallens (Pers.) M.M. Moser [= *P. obbata* (Fr.) Singer] – (rev. H. Komorowska), S/s; 2002-2005: 58, 60.

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Psilocybe crobulus (Fr.) Singer – S/w; 2000-2002: 2, 35, 36, 50, 58; ***P. inquilinus*** (Fr.) Bres. – S/l; 2000, 2002, 2007: 25, 37, 50, 58, 73; ***P. montana*** (Pers.) P. Kumm. – S/s, **R**; 2007: 105; ***P.*** [*Melanotus*] ***phillipsi*** (Berk. & Broome) Vellinga & Noordel. – S/l, **E**; 2000: 25.

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Rhodocollybia butyracea (Bull.) Lennox f. *butyracea* – M/s; 1997-1998: (B&K 2000), 2001: 26; ***R. butyracea*** (Bull.) Lennox f. *asema* (Fr.) Antonín, Halling & Noordel. – M?/s; 1998: (S 2001, L&S 2002), 2000-2004, 2006-2007: 2, 4, 5, 7, 22, 23, 25, 26, 28, 30, 36, 38, 40, 41, 42, 44, 45, 46, 48, 49, 50, 73, 75, 79, 100; ***R. maculata*** (Alb. & Schwein.) Singer var. *maculata* – M?/s; 2000-2001, 2003: 26, 40, 51, 117.

Rhodocybe gemina (Fr.) Kuyper & Noordel. – S/s; 2005-2007: 60, 114.

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Strobilurus esculentus (Wulfen) Singer – S/l; 2000-2001, 2007: 26, 46, 100; ***S. stephanocystis*** (Hora) Singer – S/l; 2000-2001, 2003, 2006: 40, 49, 50, 83, 90, 106, 114; ***S. tenacellus*** (Pers.) Singer – S/l; 2000-2003: 40, 47, 49, 60, 73, 89, 90, 96.

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Thelephora caryophyllea (Schaeff.) Pers. – M/s, **V**; 2005-2007: 60; ***T. penicillata*** Fr. – S/l, **V**; 2006: 73; ***T. terrestris*** Ehrh. – M/s; 1998-2000: (S 2001, L&S 2002), 2000-2001, 2004, 2006: 25, 26, 28, 41, 43, 44, 46, 58, 73.

Trametes hirsuta (Fr.) Pilát – S/w; 2002-2005, 2007: 31, 58, 96, 100, 106; ***T. versicolor*** (L.) Pilát – S/w; 1999: (S 2001, L&S 2002), 2000-2003, 2007: 14, 30, 31, 43, 44, 45, 49, 62, 96, 100, 114.

Trichaptum abietinum (Pers.) Ryvarden – S/w; 2003: 52, 83, 114.

Tricholoma argyraceum (Bull.) P. Kumm. – M/s; 2000: 20; ***T. inamoenum*** (Fr.) Gillet – M/s; 1999: (S 2001, L&S 2002); ***T. populinum*** J.E. Lange – M/s; **V**; 2004: 112; ***T. scalpturatum*** (Fr.) Quél. – M/s; 2000-2001, 2007: 48, 58; ***T. sulphureum*** (Bull.) P. Kumm. – M/s; 1999: (B&K 2000), 2001: 50; ***T. terreum*** (Schaeff.) P. Kumm. – M/s; 1999: (B&K 2000), 24, 100.

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Tubaria dispersa (Pers.) Singer – S/l; 2000-2004: 6, 8, 12, 13, 20, 27, 34, 100; ***T. furfuracea*** (Pers.) Gillet [= *T. hiemalis* Bon] – S/l; 1999-2000 (S 2001, L&S 2002, as: *T. furfuracea* et *T. hiemalis*), 2000-2003, 2005: 2, 4, 5, 9, 13, 14, 16, 17, 22, 36, 42, 48, 58, 63, 67, 92, 114; ***T. pellucida*** (Bull.) Fr. (according to Legon et al. 2005 it is synonym of *T. furfuracea* or *T. romagnesiana*) – S/l; 1999: (S 2001, L&S 2002); ***T. romagnesiana*** Arnolds – S/l; 2000: (S 2001, L&S 2002).

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Xeromphalina cornui (Quél.) J. Favre – S/l; 2000-2003: 40, 82, 83, 98, 114.

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FINAL REMARKS

Species richness of mycobiota and diversity of functional groups of macrofungi in the General Dezydery Chłapowski Landscape Park are similar to those observed in many areas where habitats are less transformed and forest cover is higher. Even though wooded areas cover only 15% of the Park and are strongly transformed by human activity and include forest monocultures, the area is very important for conservation of the fungal species that have an ability to adapt to anthropogenic habitats. They include some species that are new to Poland, very rare or regarded as extinct. The role of the patchy structure of farmland for conservation of fungi will be presented and analyzed in my next articles.

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Grzyby wielkowocznikowe zadrzewień śródpolnych w krajobrazie rolniczym. I. Różnorodność gatunkowa

Streszczenie

Powyższy artykuł jest pierwszym z serii czterech artykułów prezentujących wyniki badań nad grzybami wielkoowocnikowymi przeprowadzonych w krajobrazie rolniczym Wielkopolski. W latach 2000-2007 badano różnorodność gatunkową grzybów wielkoowocnikowych zadrzewień śródpolnych, parków wiejskich i lasów gospodarczych w Parku Krajobrazowym im. gen. Dezyderego Chłapowskiego. Przez trzy lata badania prowadzono na 50 stałych powierzchniach. Przez cały okres badań zbierano też grzyby poza stałymi powierzchniami. Stwierdzono występowanie 569 taksonów macromycetes, a po uwzględnieniu nielicznych danych z literatury liczba znanych taksonów z tego terenu wynosi 615. W pierwszym artykule zawarto opis terenu badań oraz wykaz gatunków i ich lokalizację. Kolejne artykuły będą dotyczyły:

- gatunków chronionych, rzadkich oraz stwierdzonych w Polsce po raz pierwszy,
- roli zbiorowisk drzewiastych w ochronie różnorodności gatunkowej grzybów wielkoowocnikowych w krajobrazie rolniczym,
- zmian w różnorodności gatunkowej i strukturze zbiorowisk grzybów w zbiorowiskach leśnych będących pod wpływem silnej antropopresji.

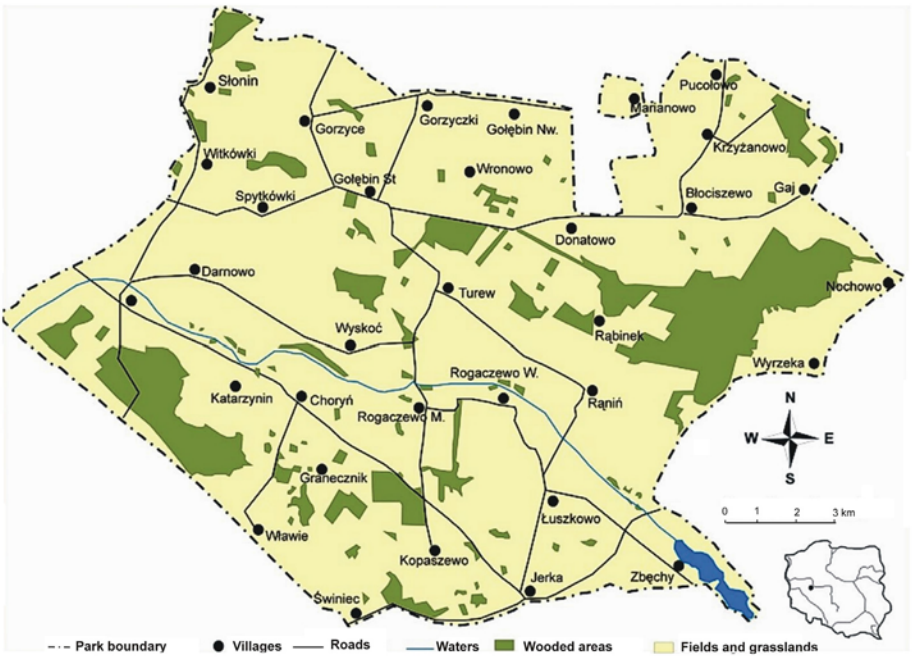

Fig. 1. General Dezydery Chłapowski Landscape Park.

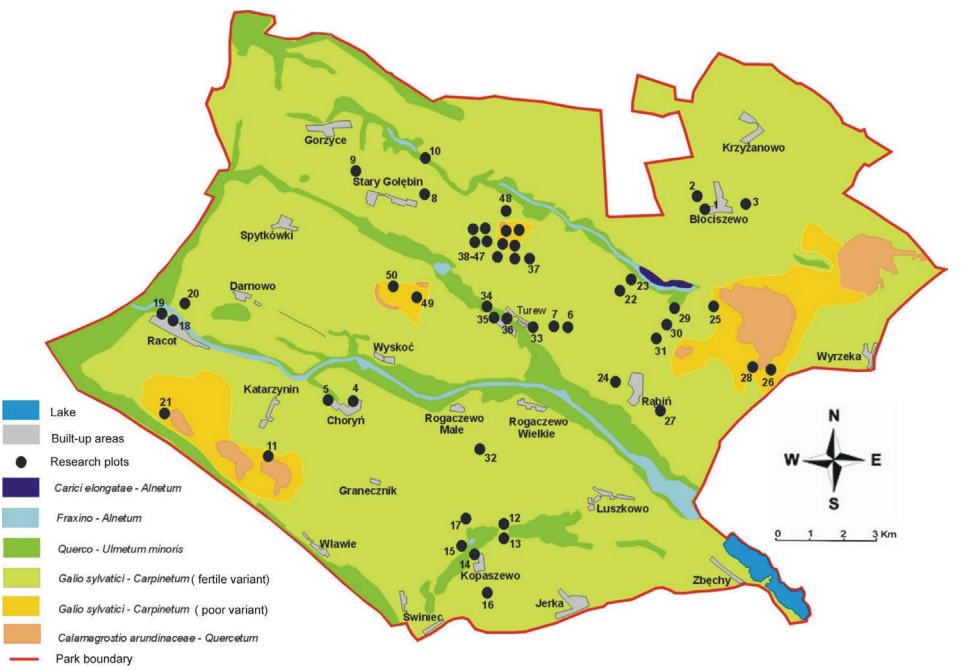

Fig. 2. Distribution of permanent plots in the General Dezydery Chłapowski Landscape Park in relation to potential vegetation (after Ratyńska and Szwed unpublished data, modified).