

Some ascomycete fungi from primeval forests of north-eastern Poland

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There are presented localities of 100 ascomycete species collected in primeval forest of north-eastern part of Poland. Among them some new species for Poland were collected: *Eutypa lata* var. *aceri*, *Hypoderma sarmentorum*, *Lophiotrema curreyi*, *Massaria sorbi*, *Massarina chamaecyparisi*, *Mollisia poaeoides*, *Mycosphaerella lycopodii-annotini*, *Phaeosphaeria juncina*, *Ph. phragmiticola*, *Plagiosphaera immersa*.

Key words: Ascomycetes, localities, distribution, primeval forest

INTRODUCTION

Primeval forests of north-eastern part of Poland belong to the nemoral-boreal zone (Faliński 1986). Biodiversity and forest communities of this area are well preserved. So far these forests were poorly investigated (Gumińska 1963). At the end of 19. century there were reported the first informations on occurrence of some plants (Rostański 1885). Fungi collected during 4. Congress of European Mycologists were reported by: Skirgiełło and Borowska (1967), Borowska (1967), Kotłaba and Lazebniček (1967) and Truszkowska (1967). Progress in phytosociological investigation of forest communities (Mazur et al. 1978, Sokołowski 1971, 1972, 1979, 1980, 1991a, 1991b, Endler 1991) enabled mycologists further more detailed work (Olesiński and Wojewoda 1987, Ginko 1987, Lisiewska 1992, Chmiel 1997). However only some articles were devoted to Ascomycetes (Truszkowska 1965, 1960, 1967, Ginko 1987, Chlebicki 1991b, Chlebicki and Bujakiewicz 1994, Chlebicki and Krzyżanowska 1995, Chlebicki and Skirgiełło 1995). Moreover a part of collections gathered by Z. Pouzar and K. Prasil has not been published so far. Z. Pouzar found very rare species *Camarops tubulina* in Starożyn reserve. Recently Chlebicki (2005) reported two rare species from NE Poland: *Camarops plana* Pouzar and *Daldinia fissa* C. G. Lloyd.

Material was studied under a zoom stereo microscope Nikon SMZ 1500 and a light microscope (LM) Nikon Labophot 2 with an oil immersion lens, at magnification of 1000x.

The material that was mentioned before is deposited in KRAM F. The Latin names of the orders and families were followed after Kirk et al. (2001). Type of forest community were reported on the basis of the works of Endler (1991) and Sokółowski (1971, 1972, 1979, 1980, 1991a, 1991b). Fungi were collected in 1988-1993 in following localities:

A1 - Augustowska Forest (Wigry National Park), Wysoki Most at the bank of Czarna Hańcza river, *Piceo-Alnetum*

A2 - Augustowska Forest (Wigry National Park), environs of Nowa Wieś near Pierty lake *Salicetum pentandro-cinereae*

A3 - Augustowska Forest, environs of Okólek at the bank of Czarna Hańcza river, *Corylo-Piceetum*

A4 - Augustowska Forest, environs of Tartaczysko at the bank of Czarna Hańcza river, *Corylo-Pinetum*

A5 - Augustowska Forest, environs of Dworczyisko near Strzelcowizna, area of meanders of Czarna Hańcza river

A6 - Augustowska Forest, "Kozi Rynek" reserve

A7 - Augustowska Forest, "Mały Borek" reserve, *Vaccinio uliginosi-Pinetum*

A8 - Augustowska Forest, "Perkuć" reserve, *Calamagrostio arundinaceae-Piceetum*, *Carici elongatae-Alnetum*, *Vaccinio myrtilli-Pinetum*

A9 - Augustowska Forest, "Starożyn" reserve, *Calamagrostio arundinaceae-Piceetum*

A10 - Augustowska Forest, (Biebrza National Park), "Czerwone Bagno" reserve, *Tilio-Carpinetum*, *Vaccinio uliginosi-Pinetum*

A11 - Augustowska Forest, (Biebrza National Park), Bagno Ławki *Salicetum pentandro-cinereae*

A12 - Augustowska Forest, (Wigry National Park), Wysoki Wagiel near Białe lake, *Corylo-Piceetum*, *Circaeo-Alnetum*, *Phragmitetum communis*

A13 - Augustowska Forest, (Wigry National Park), Duży Sucharek lake, peat bog

A14 - Biebrza Valley (Biebrza National Park), Ciszewo, Brzeziny Ciszewskie, damp forest with *Betula pubescens* and *Betula pendula*

B1 - Borecka Forest, 5 km of north of Czerwony Dwór near Elk river, *Tilio Carpinetum stachyetosum*

B2 - Borecka Forest, Ogonki, on the eastern bank of Mamry lake

K1 - Kurpiowska Forest, "Czarnia" reserve near Myszyniec, *Peucedano-Pinetum*

M1 - Mazury Landscape National Park, environs of Sychowo, *Tilio-Carpinetum*

S1 - Suwalski Landscape National Park, the east bank of "Hańcza lake" reserve

S2 - Suwalski Landscape National Park, "Bachanowo" reserve

S3 - Suwalski Landscape National Park, the west bank of Boczniel lake near "Hańcza lake" reserve

R1 - Romincka Forest, "Boczki" reserve, *Tilio-Carpinetum stachyetosum*, *Pino-Quercetum*, *Carici-elongatae Alnetum*

R2 - Romincka Forest, "Żytkiejmska Struga" reserve, *Stellario-Alnetum*

R3 - Romincka Forest, environs of Żytkiejmy, peat bog

R4 - Romincka Forest, "Dziki Kąt" reserve, *Vaccinio myrtilli-Pinetum*

R5 - Romincka Forest, Zacisze near Żytkiejmy

Taxa new to Poland are marked by ◆

LIST OF TAXA

Amphiporthe leiphaemia (Fr.) Butin

A5, *Tilio-Carpinetum* on a steep slope of the river bank, on dead twigs of *Quercus robur*, 28 July 1990, KRAM 41 754; A10, *Tilio-Carpinetum*, on dead branch of *Quercus robur*, 19 Aug. 1991, KRAM 43 088; A12, *Corylo-Piceetum*, on dead branch of *Quercus robur*, 13 Aug. 1991, KRAM 43 002; K1, *Peucedano-Pinetum*, on dead twig of *Quercus robur*, 8 Aug. 1991, KRAM 43 063.

Common species, it occurs on branches of *Quercus* spp. in all part of Poland.

Anthostomella formosa Kirschst.

A5, *Vaccinio vitis-idaeae-Pinetum*, on needles of *Pinus sylvestris*, 14 Aug. 1991, KRAM 42 098.

Kowalski (1988) noted it on needles of *Pinus sylvestris* in S-Poland. Probably not rare and overlooked fungus, known as needle endophyte (Kowalski, Poździk 1993).

Barrmaelia oxyacanthae (Mont.) Rappaz

= *Anthostomella melanotes* (Berk. et Broome) Sacc.

R5, *Piceo-Sphagnetum Girgensohnii*, on dead branch of *Salix cinerea*, 10 Aug. 1991, KRAM 43 060.

It was recorded by Schroeter (1908) from Lower Silesia on *Ribes petraeum*, *Populus tremula* and *Carpinus betulus* in 5 localities. Detailed description of this species was given by Rappaz (1995).

Bertia moriformis (Tode) De Not.

var. *moriformis*

A5, *Circaeo-Alnetum* in the meanders of river, on decorticated stump of *Picea abies*, 28 July 1990, KRAM 41 261; M1, *Tilio-Carpinetum*, on decorticated branch of *Fagus sylvatica*, 8 Aug. 1991, KRAM 43 076.

var. *latispora* Corlett et J. C. Krug

A5, *Circaeo-Alnetum* in the meanders of river, on decorticated branch of *Alnus glutinosa*, 1 May 1993, KRAM 41 907.

It is the second locality of this taxon in Poland. Chlebicki (1991b) recorded both mentioned varieties from Białowieża National Park. It is common lignicolous fungus (as var. *moriformis*) reported from all parts of Poland.

Biscogniauxia repanda (Fr.) Kuntze

A1, *Piceo-Alnetum*, KRAM. 41 742 on branches of *Sorbus aucuparia*, A9, *Calamagrostio arundinaceae-Piceetum*, KRAM 41 745.

The only Polish records were made by Eichler (1907), Chlebicki and Bujakiewicz (1994) and Chlebicki (2004, 2005). I found it also in Sudety Mts, Abisko National Park and Chibiny Mts in Kola Peninsula. In all cases branches of the host plants have been beforehand damaged by deer. According to Granmo et al. (1989) it is fungus with hemi-boreal and boreal distribution.

Calosphaeria wahlenbergii Nitschke

R1, *Quercus-Piceetum*, on dead branch of *Betula pubescens*, 9 Aug. 1991, KRAM 43 012; R4, *Vaccinio myrtilli-Pinetum*, on dead branch of *Betula pendula*, 10 Aug. 1991.

This birch ascomycete has been noted by Schroeter (1908) from Lower Silesia and Chlebicki (Bujakiewicz et al. 1992) from Białowieża National Park.

Camarops polysperma (Mont.) J. H. Mill. (Fig. 1A)

A9, *Carici elongatae-Alnetum*, on lying stump of *Alnus glutinosa*, 1 May 1993, KRAM 42 19; R1, *Tilio-Carpinetum stachyetosum*, on lying stump of *Fraxinus excelsior*, 24 April 1993, KRAM 42 020.

It is very rare species in Europe. Chlebicki and Bujakiewicz (1994) gave its detailed distribution in Poland.

Camarops tubulina (Alb. et Schwein.) Shear (Fig. 1B)

Schroeter (1908) found it as *Ustulina tubulina* (Alb. et Schw.) Schroeter in Lower Silesia.

Z. Pouzar found its second Polish locality in Starożyn Reserve on *Picea abies*, *Calamagrostio arundinaceae-Piceetum* (Chlebicki and Bujakiewicz 1994).

There is additional locality of this species from Poland collected by Z. Pouzar:

A6, Hruskie near Augustów, in the forest with *Alnus glutinosa* and *Picea abies*, on dead trunk of *Picea abies*, 9 September 1974, coll. et det. Z. Pouzar, PRM 815140.

It is rare species in Europe (Hilber and Hilber 1980), known from Czech Republic, Germany, Poland, Sweden, and Switzerland.

Chaetosphaeria pulviscula (Curr.) C. Booth
= *Zignoëlla pulviscula* (Curr.) Sacc.

A10, *Tilio-Carpinetum*, on decorticated branch of *Populus tremula*, 18 Aug. 1991, KRAM 43 092.

Claviceps purpurea (Fr.) Tul.

A5, *Vaccinio vitis-idaeae-Pinetum*, on panicle of *Deschampsia caespitosa* and *Calamagrostis arundinacea*, 14 Aug. 1991, KRAM 42 095.

It is common graminicolous ascomycete known from all parts of Poland.



Fig. 1A. *Camarops polysperma*: flat ostioles visible on surface.

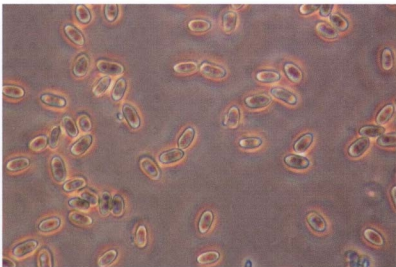


Fig. 1B. *Camarops tubulina*: ascospores.



Fig. 1C. *Hypoderma sarmentorum*: ascocarps on twigs of *Rubus idaeus*.



Fig. 1D. *Immothia hypoxylon*: ascocarps visible on stromata of *Hypoxylon multifforme* on birch wood.



Fig. 1E. *Massaria sorbi*: ascocarps with circular ostioles on sorb twig.



Fig. 1F. *Myrtilinidion rhenanum*: hysterioid ascocarps on decorticated wood of *Pinus sylvestris*.



Fig. 1G. *Pseudomassaria lycopodina*: ascocarps on leaf surface.



Fig. 1H. *Pyrenopeziza rubi*: ascocarps immersed in periderm.

Colpoma quercinum (Pers.) Wallr.

R5, on dead twig of *Quercus* sp., 10 Aug. 1991; Suwałki region, environs of Bakalarzewo, Matfiak, on dead twig of *Quercus robur*, 12 Aug. 1991; K1, *Peucedano-Pinetum*, on dead twig of *Quercus robur*, 8 Aug. 1991; M1, on dead branch of *Quercus robur*, 8 August 1991.

It is very common species on oak twigs.

Coniochaeta subcorticalis (Fuckel) Munk

Perithecia covered by setae 80-100 μm long, 3.8-4.5 μm diam., asci 57-67 \times 6-8 μm , ascospores 9.6-11 \times 3.8-4.2 μm .

A5, *Tilio-Carpinetum*, on deep slope of the river, on decorticated branch of *Acer platanoides*, 15 Aug. 1991, KRAM 42 086.

Schroeter (1908) recorded it on *Betula pendula* from Lower Silesia and Zielona Góra, Truszkowska noted it in Bieszczady Zachodnie Mts on wood of *Fagus sylvatica* (Domański et al. 1970).

Coronophora annexa (Nitschke) Fuckel

A12, *Circaeo-Alnetum*, on dead twigs of *Alnus glutinosa*, 13 Aug. 1991, KRAM 43 001. Collected a few times by Schroeter (1908), Domański et al. (1977), Truszkowska and Chlebicki (1983a), Chlebicki (1989b) and Bujakiewicz et al. (1992). Probably it occurs in all parts of Poland.

Cryptodiaporthe salicina (Curr.) Wehm.

= *Valsa salicina* (Pers.: Fr.) Fr.

A5, *Betulo pubescentis-Piceetum*, on twigs of *Salix aurita*, 14 Aug. 1991, KRAM 42 088. It is common species on willows in Poland.

Cryptodiaporthe vepris (Delacr.) Petr.

A8, *Calamagrostio arundinaceae-Piceetum*, on dead stems of *Rubus idaeus*, 16 Aug. 1991, KRAM 42 011.

It seems to be common but mostly overlooked fungus recorded from Poland on *Rubus idaeus* (Chlebicki 1989b, Bujakiewicz et al. 1992).

Diaporthe spiculosa (Alb. et Schwein.) Nitschke

Ascospores two-celled, hyaline with gelatinous appendage at both ends, 9.6-13 \times 2.0-2.5(3) μm , with median septum and two oil drops in each cell.

B2, *Pinus sylvestris* and *Betula pendula* forest, on dead twig of *Sambucus* sp., 9 Aug. 1990, KRAM 43 082.

This species resembles *Cryptodiaporthe calosphaerioides* (Ell. & Ev.) Wehm. in absence of dorsal zone. Schroeter (1908) reported it on *Sambucus racemosa* from Lower Silesia.

Diaporthe impulsa (Cooke et Peck) Sacc.

A12, *Circaeo-Alnetum*, on dead branches of *Sorbus aucuparia*, 13 Aug. 1991; R1, *Tilio-Carpinetum stachyetosum*, on dead twigs of *Sorbus aucuparia*, 9 Aug. 1991, KRAM 43 020.

It is common species on twigs of various sorbs.

Diaporthe syngenesia (Fr.) Fuckel

Ascospores two-celled, hyaline with gelatinous appendage at both ends, 12 – 13 × 3 – 3.5 μm.

A7, *Vaccinio uliginosi-Pinetum*, on dead twigs of *Frangula alnus*, 16 Aug. 1991, KRAM 43 003; A12, *Corylo-Piceetum*, on dead twigs of *Frangula alnus*, 13 Aug. 1991, KRAM 43 000. It was found in 17 localities in Lower Silesia (Schroeter 1908).

Diatrype bullata (Hoffm.) Fr.

A2, *Salicetum pentandro-cinereae*, on dead branch of *Salix* sp., 4 Aug. 1988, KRAM 41 750; A11, *Salicetum pentandro-cinereae*, peat bog, on dead branch of *Salix nigricans*, 19 Aug. 1991, KRAM 43 085; A14, damp forest with *Betula pubescens* and *B. pendula*, on dead branches of *Salix caprea*, 17 Aug. 1991, KRAM 43 102; R1, *Tilio-Carpinetum stachyetosum*, on dead twigs of *Salix caprea*, 9 Aug. 1991, KRAM 43 024; S1, *Salicetum pentandro-cinereae*, on dead branch of *Salix* sp., 22 July 1990, KRAM. 41 798.

It is very common species on senescent twigs of various willows.

Diatrype decorticata (Pers.) Rappaz

A10, *Tilio-Carpinetum* near Choszczewo, on dead branch of *Carpinus betulus*, 18 Aug. 1991, KRAM 41 730; M1, *Tilio-Carpinetum*, 1km north of Spsychowo, on dead branch of *Fagus sylvatica*, 9 Aug. 1990, KRAM 41 738.

It is common species, mostly noted on branches of *Fagus sylvatica*.

Diatrype disciformis (Hoffm.) Fr.

M1, *Tilio-Carpinetum*, on dead branch of *Fagus sylvatica*, 8 Aug. 1991, KRAM 43 077.

Very common species on branches of *Fagus sylvatica*, rarely on *Acer* spp.

Diatrype flavovirens (Pers.) Fr.

A5, *Tilio-Carpinetum*, on decorticated branch of *Carpinus betulus*, 15 Aug. 1991, KRAM 42 081; A10, *Tilio-Carpinetum*, on standing trunk of *Acer platanoides*, 18 Aug. 1991, KRAM 42 063; R1, *Tilio-Carpinetum stachyetosum*, on decorticated branch of *Quercus robur*, 9 Aug. 1991, KRAM 43 025.

It is common, lignicolous species, noted on various host plants.

Diatrype stigma (Hoffm.) Fr.

A5, *Tilio-Carpinetum* on a steep slope of the river bank, on dead branch of *Quercu robur*, 28 July 1990, KRAM 41 753; A10, *Tilio-Carpinetum*, on dead branch of *Carpinus betulus*, 18 Aug. 1991, KRAM 42 062 and on *Sorbus aucuparia*, KRAM 43 090; A11, on dead branch of *Carpinus betulus* still attached to the tree, 19 Aug. 1991, KRAM 41 741; R1, *Tilio-Carpinetum stachyetosum* on dead branch of *Carpinus betulus*, 24 April 1993, KRAM 42 047.

It is common species with very characteristic flat ostioles, mostly occurring on oak twigs (Chlebicki and Krzyżanowska 1995).

Diatrype subaffixa (Schwein.) Cooke
var. *rappazii* Chleb.

R1, *Tilio-Carpinetum stachyetosum*, on dead lying branch of *Carpinus betulus*, 9 Aug. 1991, KRAM 41 727; R1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Carpinus betulus*, 24 April 1993, KRAM 42 048; B1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Carpinus betulus*, 23 April 1993, KRAM 42 049, 42 050.

Rare species, noted only in north part of Poland (Chlebicki and Krzyżanowska 1995).

Diatrype undulata (Pers.) Fr.

A5, *Circaeo-Alnetum* in the area of meanders of river, on dead branch of *Betula pendula*, 14 Aug. 1991, KRAM 41 728; A6, on dead branch of *Betula pendula*, 4 Aug. 1991, KRAM 41 729; A7, *Vaccinio uliginosi-Pinetum*, on dead branch of *Betula pendula*, 10 Aug. 1991, KRAM 41 731; A8, *Calamagrostio arundinaceae-Piceetum*, on dead branch of *Betula pendula*, 16 Aug. 1991, KRAM 41 737; A10, *Tilio-Carpinetum*, on dead branch of *Betula pendula*, 18 Aug. 1991; R1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Betula pendula*, 9 Aug. 1991, KRAM 41 736; R2, *Stellario-Alnetum*, on dead branch of *Betula pendula*, 10 Aug. 1991, KRAM 41 734; A11, on dead branch of *Betula pendula*, 19 Aug. 1991, KRAM 41 735; B1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Betula pubescens*, 23 April 1993, KRAM 42 051; R1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Betula pendula*, 9 Aug. 1991, KRAM 43 018.

It is very common species, noted on branches and twigs of various birches.

Diatrypella favacea (Fr.) Ces. et De Not.

A5, *Circaeo-Alnetum* in area of meanders of river, on dead branch of *Betula pendula*, 28 July 1990, KRAM 41 755; A6, on dead branch of *Betula pubescens*, 4 Aug. 1990, KRAM 41 785; A8, *Calamagrostio arundinaceae-Piceetum*, on dead branch of *Betula pendula*, 16 Aug. 1991, KRAM 42 002; A9, *Calamagrostio arundinaceae-Piceetum*, on dead twigs of *Betula pubescens*, (stromata resemble *D. decorata*) 16 Aug. 1991, KRAM 41 988; A10, *Tilio-Carpinetum*, on dead branch of *Betula pendula*, 18 Aug. 1991, KRAM 42 061; A12, *Corylo-Piceetum*, on dead branch of *Betula pendula*, 14 July 1989, KRAM 41 981, 42 067; A14, on dead branch of *Betula pubescens*, 18

Aug. 1991, KRAM 43 101; B2, on dead branch of *Betula pendula*, 9 Aug. 1991; R1, *Quercus-Piceetum*, on dead branch of *Betula pubescens*, 9 Aug. 1991, KRAM 43 016; R2, *Stellario-Alnetum*, on dead branch of *Betula pubescens*, 10 Aug. 1991;

Diatrypella nigroannulata

M1, *Tilio-Carpinetum*, on dead branch of *Fagus sylvatica*, 8 Aug. 1991, KRAM 43 074;

Diatrypella tocciaeana

A8, *Carici elongatae-Alnetum*, on dead twig of *Alnus glutinosa*, 16 Aug. 1991, KRAM 42 004; A9, *Carici elongatae-Alnetum*, on dead branch of *Alnus glutinosa*, 16 Aug. 1991; A10, *Tilio-Carpinetum*, on dead branch of *Alnus glutinosa*, 18 Aug. 1991, KRAM 43 089; A14, on dead branches of *Alnus glutinosa*, 17 Aug. 1991, KRAM 43 104; R1, *Carici elongatae-Alnetum*, on dead branch of *Alnus glutinosa*, 9 Aug. 1991, KRAM 43 039; S1, on dead branch of *Alnus glutinosa*, 22 July 1990, KRAM 41 790;

Diatrypella verrucaeformis

A2, on dead standing trunk of *Corylus avellana*, 4 Aug. 1988, KRAM 41 751; A3, *Corylo-Piceetum*, on dead standing trunk of *Corylus avellana*, 8 Aug. 1988, KRAM 41 747; A4, *Corylo-Piceetum*, on dead standing trunk of *Corylus avellana*, 7 Aug. 1988, KRAM 41 748; A5, *Corylo-Piceetum* on a steep slope of the river bank, on dead branch of *Corylus avellana*, 28 July 1990, KRAM 41 777, (*Tilio-Carpinetum*) 42 084; A10, *Tilio-Carpinetum*, on dead branches of *Corylus avellana*, 18 Aug. 1991; R1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Carpinus betulus*, 9 Aug. 1991, KRAM 43 030.

It is very common species, noted on various host plants (Chlebicki 1986).

Diatrypella quercina (Pers.) Cooke

A10, *Tilio-Carpinetum*, on dead twigs of *Quercus robur*, 18 Aug. 1991, KRAM 42 056.

This is very common species on oak branches and twigs.

Dothiora pyrenophora (Fr.) Fr.

B2, *Pinus sylvestris* and *Betula pendula* forest, on twigs of *Sorbus aucuparia*, 9 Aug. 1991, KRAM 43 080.

It is common species, noted on twigs of various species of the genus *Sorbus*.

Euepixylon udum (Pers.) Füsting *Bot. Ztg.* 25 (no. 39): 305, 309 (1867)
= *Euepixylon udum* (Pers.: Fr.) Laessøe & Spooner, *Hypoxylon udum* (Pers.) Fr.

Asci 144-150 × 14-15 μm, ascospores ellipsoid, 24-30 × 7.6-9.6 μm with short germ slit.

A12, *Corylo-Piceetum*, on decorticated branch of *Quercus robur*, 14 July 1989, KRAM 41 982.

It is rare species in Poland, noted by Schroeter (1908) in Lower Silesia, known from Central Europe and Great Britain (Petrini and Müller 1986).

Eutypa lata (Pers.) Tul. et C. Tul.

R1, *Tilio-Carpinetum stachyetosum*, on decorticated branch of *Carpinus betulus*, 9 Aug. 1991, KRAM 43 026; S1, on decorticated wood of *Acer platanoides*, 22 July 1990, KRAM 41 797.

It is common species on decorticated wood of various host plants.

◆ *Eutypa lata* (Pers.) Tul. et C. Tul.
var. *aceri* Rappaz

Stromata diatrypoid, on decorticated wood, ascospores allantoid, hyaline 5.7-11 × 1.5 µm.

A12, *Corylo-Piceetum*, on decorticated branch of *Acer platanoides*, 14 July 1989, KRAM 42 071.

It is recently described variety on branches of the genus *Acer* (Rappaz 1987). So far it was not reported from Poland.

Eutypa lejoplaca (Fr.) Fuckel

A5, *Tilio-Carpinetum*, on deep slope of the river, on decorticated branch of *Acer platanoides*, 15 Aug. 1991, KRAM 42 082; A6, on dead branch of *Acer platanoides*, 4 Aug. 1990, KRAM 41 787; A10, *Tilio-Carpinetum*, on decorticated branch of *Acer platanoides*, 18 Aug. 1991, KRAM 42 054; A12, *Corylo-Piceetum*, on decorticated branch of *Acer platanoides*, 14 July 1989, KRAM 41 979.

Probably not rare species in Poland, noted in Białowieża National Park (Bujakiewicz et al. 1992; Chlebicki et al. 1996).

Eutypa sparsa Romell

A9, *Calamagrostio arundinaceae-Piceetum*, on decorticated branch of *Populus tremula*, 16 Aug. 1991, KRAM 41 989; A10, *Tilio-Carpinetum* on decorticated branch of *Populus tremula*, 18 Aug. 1991, KRAM 42 055; M1, on decorticated branch of *Populus tremula*, 8 Aug. 1991.

It is noted by Chlebicki in Białowieża NP (Bujakiewicz et al. 1992), probably very common species in Poland.

Eutypella sorbi (J. C. Schmidt) Sacc.

A2, on dead branch of *Sorbus aucuparia*, 4 Aug. 1988, KRAM 41 752; A5, *Circaeo-Alnetum* in area of meanders of river, on dead branch of *Sorbus aucuparia*, 28 July 1990, KRAM 41 763; A8, *Calamagrostio arundinaceae-Piceetum*, on dead branch of *Sorbus aucuparia*, 16 Aug. 1991, KRAM 41 996; R1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Sorbus aucuparia*, 9 Aug. 1991, KRAM 43 021; R2, *Stellario-Alnetum*, on dead branch of *Sorbus aucuparia*, 10 Aug. 1991, KRAM 43 046; R4, *Vaccinio myrtilli-Pinetum*, on dead branch of *Sorbus aucuparia*, 10 Aug. 1991, KRAM 43 056.

It is very common species on branches and twigs of various sorbs (Chlebicki 2004).

Gnomonia rostellata (Fr.) Wehm.

A5, *Calamagrostio arundinaceae-Piceetum* on a steep slope of the river bank, on dead stems of *Rubus idaeus*, 28 July 1990, KRAM 41 764.

It is species restricted to host plants from the genera *Rubus* and *Rosa* (Monod 1983), noted by Schroeter (1908) in Lower Silesia. Chlebicki (2002) found very similar species *G. chamaemori* (Fr.) P. Karst. on stems of *Rubus chamaemorus* in northern part of Poland.

◆ *Hypoderma sarmentorum* (De Not.) Rehm (Fig. 1C)

Ascocarp densely scattered 150-220 × 100-115 µm, with longitudinal slit. Interstitial threads present. Asci 23-25 × 5.7-6.5, ascospores 9.6-12 × 2-3 µm, ellipsoid or variable in shape, one-celled, sometimes with single septa, hyaline.

A6, near forest road on dead stems of *Rubus idaeus*, 4 August 1990, KRAM 41 779.

Eichler (1902) found *Hypoderma rubi* (Pers.) DC. on stems of *Rubus plicatus* with ascospores 18-22 × 3-4 µm and *Hypoderma sarmentorum* (Eichler 1904) on *Solanum dulcamara* with ascospores 9-12 × 3-4 µm, distinctly 1-septate. It is not clear which fungus had Eichler (1904). Also according to Dennis (1981) ascospores of *H. rubi* (as *H. virgultorum* DC.) are cylindrical-fusiform, 21-24 × 3-4 µm, biguttulate but as a rule not septate, paraphyses slender. Rehm (1891) noted that apothecia are elliptic or lineariform, 100-200 µm, up to 600 µm long, asci long eye-form 35-40 × 10-12 µm, ascospores 8-10 × 4 µm, paraphyses branched, hyaline, noted on *Rubus fruticosus*.

Hypoxyton fuscum (Pers.) Fr.

A2, *Corylo-Piceetum*, on dead branch of *Corylus avellana*, 4 August 1988, KRAM 41 746; S1, on dead branch of *Corylus avellana*, 22 July 1990, KRAM 41 793; A9, *Carici elongatae-Alnetum*, on decorticated branch of *Alnus glutinosa*, 16 Aug. 1991, KRAM 41 987; A10, *Tilio-Carpinetum*, on dead branch of *Carpinus betulus*, 18 Aug. 1991, KRAM 42 057; A14, on dead branch of *Alnus glutinosa*, 17 Aug. 1991; R1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Alnus glutinosa*, 9 Aug. 1991, KRAM 43 031.

It is very common species on branches of various host plants.

Hypoxyton howeanum Peck

A5, on deep slope of the river, *Tilio-Carpinetum*, on dead twigs of *Corylus avellana*, 15 Aug. 1991, KRAM. 42 079; A10, *Tilio-Carpinetum*, on dead branch of *Carpinus betulus*, 18 Aug. 1991, KRAM 42 060; R1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Quercus robur*, 9 Aug. 1991, KRAM 43 035.

It is very common species on various host plants.

Hypoxylon multiforme (Fr.) Fr.

A5, *Circaeo-Alnetum* in area of meanders of river, on decorticated branch of *Betula pubescens*, 28 July 1990, KRAM 41 761, *Tilio-Carpinetum* 42 078; A6, on dead branch of *Betula pubescens*, 4 Aug. 1990, KRAM 41 781; A8, *Calamagrostio arundinaceae-Piceetum*, on decorticated branch of *Betula pendula*, 16 Aug. 1991, KRAM 41 997; A10, *Tilio-Carpinetum*, on dead branch of *Betula pendula*, 18 Aug. 1991, KRAM 42 053; A12, *Corylo-Piceetum*, on dead branch of *Betula pendula*, 14 July 1989, KRAM. 41 980; A14, on dead branch of *Betula pubescens*, 17 Aug. 1991; R1, *Quercu-Piceetum*, on dead branch of *Betula pendula*, 9 Aug. 1991, KRAM 43 015, *Tilio-Carpinetum*, 43 032, on *Alnus glutinosa* 43 038; R2, *Stellario-Alnetum*, on decorticated branch of *Carpinus betulus*, 10 Aug. 1991, KRAM 43 045; R4, *Vaccinio myrtilli-Pinetum*, on dead branch of *Betula pendula*, 10 Aug. 1991, KRAM 43 053; S1, on dead branch of *Corylus avellana*, 22 July 1990, KRAM 41 788.

It is very common species on branches and trunks of birches.

Hypoxylon rubiginosum (Pers.) Fr.

A9, *Carici elongatae-Alnetum*, on decorticated wood of *Populus tremula*, 16 Aug. 1991; A10, *Tilio-Carpinetum*, on decorticated stump of *Fraxinus excelsior*, 18 Aug. 1991; R1, *Quercu-Piceetum*, on decorticated branch of *Carpinus betulus*, 9 Aug. 1991, KRAM 43 014, *Tilio-Carpinetum*, 43 029, on *Fraxinus excelsior* 43 037.

It is not rare species, noted mostly on decorticated wood of *Fraxinus excelsior*.

Hysterium pulicare Ellis

A12, *Corylo-Piceetum*, on decorticated wood of *Betula pendula*, 14 July 1989, KRAM 42 070; R4, *Vaccinio myrtilli-Pinetum*, on decorticated branch of *Betula pendula*, 10 Aug. 1991, KRAM 43 054.

It is not rare species, noted on wood of birches.

Immothia hypoxylon (Ellis et Everh.) Barr (Fig. 1D)

Ascocarps globose 210-230(250) μm diam., black, with small umbilicus at the top, ascospores two-celled, lighth brown 13-15 \times 4.5-5.5 μm .

A5, *Circaeo-Alnetum* in area of meanders of river, on dead stromata of *Hypoxylon multiforme* and decorticated wood of *Betula pubescens* 28 July 1990, KRAM 41 762.

It is probably overlooked species, reported from Poland by Chlebicki and Skirgiełło (1995).

Kretzschmaria deusta (Hoffm.) P. M. D. Martin

A10, *Tilio-Carpinetum*, on old wood of *Populus tremula* covered by mosses, 18 Aug. 1991, KRAM 42 059; R1, *Tilio-Carpinetum stachyetosum*, on dead trunk of *Quercus robur*, 9 Aug. 1991, KRAM 43 028.

It is very common parasitic species in Poland.

Lasiosphaeria canescens (Pers.) P. Karst.

R1, *Quercus-Piceetum*, on decorticated branch of *Carpinus betulus*, 9 Aug. 1991, KRAM 43 013.

The species was noted on wood of *Fagus sylvatica* and *Quercus* (Eriksson 1992). Schroeter (1908) reported it from Lower Silesia.

Lasiosphaeria ovina (Pers.) Ces. et De Not.

A8, *Calamagrostio arundinaceae-Piceetum*, on decorticated wood of *Betula pendula*, 16 Aug. 1991, KRAM 41 998.

It is probably not rare species, noted by Schroeter (1908) in Lower Silesia and by Truszkowska (1965) on various trees in Białowieża National Park.

Leptosphaeria acuta (Moug. et Nestl.) Cooke

A5, *Circaeo-Alnetum* in area of meanders of river, on dead stems of *Urtica dioica*, 28 July 1990, KRAM 41 722; A10, *Tilio-Carpinetum*, on dead stems of *Urtica dioica*, 18 Aug. 1991, KRAM 43 096; R2, *Stellario-Alnetum*, on dead stem of *Urtica dioica*, 10 Aug. 1991.

It is common species on nettle stems.

Leptosphaeria coniothyrium (Fuckel) Sacc., anamorph *Coniothyrium* sp.
= *Kalmusia coniothyrium* (Fuckel) Huhndorf

R1, *Tilio-Carpinetum stachyetosum*, on dead stems of *Rubus idaeus*, 9 Aug. 1991, KRAM 43 041.

The species has been noted on *R. idaeus* by Eichler (1904) in Międzyrzec and Schroeter (1908) in Lower Silesia.

Leucostoma persoonii (Nitschke) Höhn.
= *Valsa leucostoma* (Pers.: Fr.) Fr.

B2, *Pinus sylvestris* and *Betula pendula* forest, on dead twig of *Sorbus aucuparia*, 9 Aug. 1991, KRAM 43 081.

It is not rare species, noted on sorb branches, especially in the mountains.

Lophodermium juniperinum (Fr.) De Not.

A5, *Vaccinio vitis-idaeae-Pinetum*, on needles of *Juniperus communis*, 14 Aug. 1991. It is common species on juniper needles.

Lophodermium pinastri (Schrad.) Chevall.

A5, *Calamagrostio arundinaceae-Piceetum*, on deep slope of the river bank, on dead needles of *Pinus sylvestris*, 28 July 1990, KRAM 41 775; A9, *Calamagrostio arundinaceae - Piceetum*, on needles of *Pinus sylvestris*, 16 Aug. 1991, KRAM 41 995;

B2, *Pinus sylvestris* and *Betula pendula* forest, on cone(!) of *Pinus sylvestris*, 9 Aug. 1991, KRAM 43 084.

It is very common species on pine needles.

Lophiostoma compressum (Pers.) Ces. et De Not.

Ascospores variable in shape, mostly ellipsoid, with five transversal septa and one segment with longitudinal septum $19-23 \times 6-7.5 \mu\text{m}$.

A5, *Betulo pubescentis Piceetum*, on decorticated twig of *Salix aurita*, 14 Aug. 1991, KRAM 42 096.

It occurs on various trees, on dead wood, noted by Schroeter (1908) in Lower Silesia on the plants from the genera *Prunus*, *Spiraea*, *Pirus*, *Lonicera*, *Viburnum* and *Populus*.

◆ *Lophiotrema curreyi* Sacc.

= *Lophiostoma hysteroioides* (Schwein.) Sacc.

Ascospores hyaline, four-celled $13-14 \times 3-3.5 \mu\text{m}$.

R2, *Stellario-Alnetum*, on decorticated branch of *Carpinus betulus*, 10 Aug. 1991, KRAM 43 048.

It was noted on various host plants in North America (Farr et al. 1989), Japan (Tanaka and Harada 2003) and in Great Britain (Chesters and Bell 1970). It is a new species for Poland.

◆ *Massaria sorbi* Hazsl. (Fig. 1E)

Ascospores brown, ellipsoid, five-distoseptate, in gelatinous coat, $67-77 \times 14-17 \mu\text{m}$.

B2, Ogonki, on the east bank of Mamry Lake, *Pinus sylvestris* and *Betula pendula* forest, on dead twig of *Sorbus aucuparia*, 9 Aug. 1991, KRAM 43 079.

It is very rare species, described by Hazslinsky in Hungaria on *Sorbus aucuparia* (Saccardo 1890). It is the first time reported fungus from Poland.

Massarina arundinacea (Sowerby) Leuchtm.

A12, *Phragmitetum communis*, on dead stem of *Phragmites australis*, 15 July 1989, KRAM 42 077.

It is common species on stems *Phragmites australis*, noted by Eichler (1904) in Poland.

◆ *Massarina chamaecyparidis* (Rehm) L. et K. Holm (as *M. chamaecyparissi*)

Ascocarps epiphyllous, ascospores hyaline, fusiform, mostly two-celled $17-20 \times 2.3-3.8(4) \mu\text{m}$, sometimes 2-3 additional septa were seen.

A5, *Vaccinio vitis-idaeae-Pinetum*, on dead leaves of *Lycopodium annotinum*, 14 Aug. 1991, KRAM 42 094.

It is very rare species, noted in Czech Republic, Yugoslavia and Sweden (L. Holm and K. Holm 1981), so far not reported from Poland.

Melanconisalni Tul. et C. Tul.

R1, *Tilio-Carpinetum stachyetosum*, on twigs of *Alnus glutinosa*, 9 Aug. 1991, KRAM 43 040.

It is common species on alder twigs.

Melanconis stilbostoma (Fr.) Tul. et C. Tul.

A5, *Circaeo-Alnetum* in area of meanders of river, 28 July 1990, KRAM 41 757; A7, *Vaccinio uliginosi-Pinetum*, on dead twigs of *Betula pendula*, 16 Aug. 1991.

It is very common species in Poland.

Melanomma pulvis-pyrius (Pers.) Fuckel

A5, ecotone between *Tilio-Carpinetum* and *Circaeo-Alnetum* in area of meanders of river, on decorticated branch of *Quercus robur*, 28 July 1990, KRAM 41 760; A5, ecotone between *Tilio-Carpinetum* and *Circaeo-Alnetum* in area of meanders of river, on dead log of *Tilia cordata*, 28 July 1990, KRAM 41 769, 41 770; A7, *Vaccinio uliginosi-Pinetum*, on decorticated branch of *Alnus glutinosa*, 16 Aug. 1991; A8, *Calamagrostio arundinaceae-Piceetum*, on decorticated wood of *Betula pendula* and dead stromata of *Diatrypella favacea*, 16 Aug. 1991, KRAM 41 999; A9, *Carici elongatae-Alnetum*, on decorticated wood of *Corylus avellana* and *Alnus glutinosa*, 16 July 1991; A10, *Tilio-Carpinetum*, on decorticated branch of *Corylus avellana*, 18 Aug. 1991, KRAM 43 093; R1, *Tilio-Carpinetum stachyetosum*, on decorticated branch of *Betula pendula*, 9 Aug. 1991, KRAM 43 018.

It is probably the most common ascomycete species in Poland.

Metameris aspidiorum (Lib.) Arx et. E. Müll.

A5, *Vaccinio vitis-idaeae-Pinetum*, on leaf of *Pteridium aquilinum*, 14 Aug. 1991; A6, on dead leaf of *Pteridium aquilinum*, 4 Aug. 1990, KRAM 41 783; K1, *Peucedano-Pinetum*, on dead leaves of *Pteridium aquilinum*, 8 Aug. 1991.

It is a pteridicolous species common on plants from the genera *Athyrium*, *Dryopteris*, *Matteucia*, *Pteridium*, *Osmunda* and *Thelypteris* (Obrist 1959), noted in Europe and North America, as well as in Poland (Bujakiewicz et al. 1992)

Mollisia sp.

Asci 34-40 × 4-5 µm, ascospores hyaline, clavate 6-7.7 × 1.5 µm

A5, *Vaccinio vitis-idaeae-Pinetum*, on dead leaves of *Diphasium complanatum*, 14 Aug. 1991, KRAM. 42 093.

This fungus resembles *Mollisia* sp. of L. Holm and K. Holm (1981) and differs from *Mollisia lycopodii* Lebreton et Malbr. by the small and clavate ascospores.

◆ *Mollisia poaeoides* Rehm

K1, *Peucedano-Pinetum*, on dead stems of *Calamagrostis arundinacea*, 8 Aug. 1991, KRAM 43 068 (det. M. A. Chmiel).

It is first locality of this species in Poland.

Mollisia clavata Gremmen

A5, *Calamagrostio-Pinetum*, on dead stems of *Rubus idaeus*, 28 July 1990, KRAM 42014 (det. M. A. Chmiel).

This species was reported by Chmiel (1997) from Janów Forest Landscape Park.

◆ *Mycosphaerella lycopodii-annotini* Petrak

Ascocarps immersed, subglobose, asci 30-33 × 4-4.5 µm, ascospores two-celled, with median septum, hyaline, 10-12 × 1.5-1.8 µm

A9, *Calamagrostio arundinaceae-Piceetum*, on dead stems of *Lycopodium annotinum*, 16 Aug. 1991, KRAM 41 994.

It has been not recorded so far from Poland, however it is probably a common species known from *Lycopodium annotinum* (see L. Holm and K. Holm 1981).

Mycosphaerella perexigua (P. Karst.) Johanson

R1, *Carici elongatae-Alnetum*, on dead leaves of *Juncus* sp. 9 Aug. 1991, KRAM 43 043; R3 on dead stem of *Typha* sp., 9 Aug. 1991, KRAM 43 008; S3, on dead leaf of *Juncus effusus*, 22 July 1990.

It is probably common species on host plants from the genus *Juncus*.

Mytylinidion rhenanum Fuckel (Fig. 1F)

Ascospores fusoid, brown, four-celled 29 – 32 × 8-9 µm.

K1, *Peucedano-Pinetum*, on decorticated branch of *Pinus sylvestris*, 8 Aug. 1991, KRAM 43 064.

The original species possess narrower spores 24(30)-42(50) × 3-5 µm (Barr 1990). It was noted by Schroeter (1908) on wood of *Pinus sylvestris* in Lower Silesia.

Nectria cinnabarina (Tode) Fr., anamorph *Tubercularia vulgaris* Tode

Anamorph: A14, damp forest with *Betula pubescens* and *B. pendula*, on standing twig of *Frangula alnus*, 17 Aug. 1991.

It is very common species on various host plants in Poland.

Nectria coryli Fuckel

R2, *Stellario-Alnetum*, on twig of *Salix cinerea*, 10 Aug. 1991, KRAM 43 04.

It is not rare species in Poland.

Nectria episphaeria (Tode) Fr.

A5, ecotone between *Circaeo-Alnetum* and *Tilio-Carpinetum* in area of meanders of river, on dead stromata of *Melanomma pulvis-pyrius*, 28 July 1990; A6, on dead stromata of *Pseudovalsa lanciformis*, 4 Aug. 1990; A10, *Tilio-Carpinetum*, on dead stromata of *Hypoxyton fuscum*, 18 Aug. 1991, *Coryneum brachyurum*, KRAM 43 091 and *Cytospora pruinosa* KRAM 43 094.

It is very common, mycophilous species, noted on stromata of various ascomycete fungi (Chlebicki and Skirgiełło 1995).

Nemania serpens (Pers.) S.F. Gray

A5, on deep slope of the river, *Tilio-Carpinetum*, on decorticated wood of *Populus tremula*, 15 Aug. 1991, KRAM 42 080; A9, *Carici elongatae-Alnetum*, on decorticated wood of *Populus tremula*, 16 Aug. 1991; M1, *Tilio-Carpinetum*, on dead branch of *Fagus sylvatica*, 8 Aug. 1991, KRAM 43 075; R1, *Tilio-Carpinetum stachyetosum*, on decorticated branches of *Quercus robur* and *Carpinus betulus*, 9 Aug. 1991, KRAM 43 027.

The species was noted in temperate and subtropical regions. It occurs on various deciduous trees (Pouzar 1985).

Nitschka collapsa (Romell) Chenant.

A6, on decorticated wood of *Acer platanoides*, 4 Aug. 1990.
It is common species.

Ophiovalsa suffusa (Fr.) Petr.

= *Winterella suffusa* (Fr.) O. Kuntze

A8, *Calamagrostio arundinaceae-Piceetum*, on dead twigs of *Alnus glutinosa*, 16 Aug. 1991, KRAM 42 006; A11, peat bog, on dead branch of *Alnus glutinosa*, 19 Aug. 1991; A12, *Circaeo-Alnetum*, on dead twigs of *Alnus glutinosa*, 13 Aug. 1991; A14, on dead branches of *Alnus glutinosa*, 17 Aug. 1991.

It is very common species, noted on alder twigs.

Pezicula frangulae (Pers.) Fuckel

Ascospores hyaline with 1-2 septa (very young) (12)15-18 × 6-8 μm.

M1, on dead branch of *Frangula alnus*, 8 Aug. 1991, KRAM 43 072.

Ascospores of this species are usually four celled. It was noted by Eichler (1902) in Miedzyrzec as *Dermatea frangulae* (Pers.) Tul., as well as in Lower Silesia, as *Pezicula versiformis* (Alb. et Schw.) Schrader by Schroeter (1908).

Phaeosphaeria culmorum (Auersw. ex Rehm) Leuchtm.

R3, on dead stem of *Typha* sp., 9 Aug. 1991, KRAM 43 009.
It is common species in Poland.

Phaeosphaeria fuckelii (Niessl ex W. Voss) L. Holm

A5, *Calamagrostio arundinaceae-Piceetum* on a steep slope of the river bank, on dead stems of *Calamagrostis arundinacea*, 28 July 1990, KRAM 41 765; K1, *Peucedano-Pinetum*, on dead stems of *Calamagrostis arundinacea*, 8 Aug. 1991, KRAM 43 067.

It is probably common species in Poland on grass stems (Chlebicki 1992)

◆ *Phaeosphaeria juncina* (Auersw.) L. Holm

Ascospores four-celled $30\text{--}34 \times 4\text{--}5.5 \mu\text{m}$.

R1, *Quercu-Piceetum*, on dead leaves of *Juncus effusus*, 9 Aug. 1991, KRAM 43 022.

It is the first record of this species from Poland.

Phaeosphaeria luctuosa (Niessl ex Sacc.) Otani et Mikawa

Ascocarps globose, asci $80\text{--}90 \times 12\text{--}13.5 \mu\text{m}$, ascospores six-celled, lighth olivaceous $23\text{--}30 \times 5.7\text{--}6.5 (7) \mu\text{m}$.

A5, *Calamagrostio arundinaceae-Piceetum* on a steep slope of the river bank, on dead stems of *Calamagrostis arundinacea*, 28 July 1990, KRAM 41 766.

It was reported by Chlebicki from Poland (Scheuer and Chlebicki 1997).

◆ *Phaeosphaeria phragmiticola* Leuchtm., anamorph *Stagonospora* sp.

Anamorph: R2, *Stellario-Alnetum*, on leaves of *Phragmites australis*, 10 Aug. 1991, KRAM 43 049; A13, on *Eriophorum angustifolium*, 14 July 1989, KRAM 42076.

It is a first record of this species from Poland.

Phaeosphaeria vagans (Niessl) O.E. Eriksson

A5, *Calamagrostio arundinaceae-Piceetum* on a steep slope of the river bank, on dead stems of *Calamagrostis arundinacea*, 28 July 1990, KRAM 41 768.

It is not rare species in Poland.

Phyllachora junci (Alb. et Schwein.) Fuckel

A5, *Betulo pubescentis-Piceetum*, on dead leaves of *Juncus effusus*, 14 Aug. 1991, KRAM 42 097; R1, *Quercu-Piceetum*, on leaves of *Juncus effusus*, 9 Aug. 1991 (*Carici elongatae-Alnetum*) 43 042; R3, on dead leaves of *Juncus effusus*, 9 Aug. 1991, KRAM 43 011.

Probably not rare species, noted by Eichler (1907) in Międzyrzec and (Buja-kiewicz et al. 1992) in Białowieża National Park.

◆ *Plagiosphaera immersa* (Trail) Petr.

Ascocarps embedded in stem tissue, ascospores parallel, filiform, sometimes spirally twisted, with 5 indistinct septa, $42\text{--}51 \times 1.9\text{--}2.5 \mu\text{m}$.

A10, *Tilio-Carpinetum*, on dead stems of *Urtica dioica*, 18 Aug. 1991, KRAM 43 095.

The species was reported by Petrak as *Ophiobolus moravicus* on stems of *Urtica dioica* in Czech Republic (Walker 1980). It is the first time recorded species in Poland.

Pseudomassaria lycopodina (P. Karst.) Arx (Fig. 1G)

Ascomata scattered, asci cylindrical $46\text{--}57 \times 5.7\text{--}7.7 \mu\text{m}$, ascospores "banana-shaped", hyaline $15\text{--}19 \times 3\text{--}3.5 \mu\text{m}$

A5, *Vaccinio vitis-idaeae-Pinetum*, on dead leaves of *Diphysium complanatum*, 14 Aug. 1991, KRAM 42 092; A8, *Calamagrostio arundinaceae-Piceetum*, on dead stems of *Lycopodium annotinum*, 16 Aug. 1991, KRAM 42 008; R1, *Quercu-Piceetum*, on dead leaves of *Lycopodium annotinum*, KRAM 43 023.

It is very common species on the host plants from the genus *Lycopodium* (L. Holm, K. Holm 1981). Reported from Poland by Eichler (1904) from environs of Międzyrzec and by Schroeter (1908) from Lower Silesia on *Lycopodium annotinum*.

Pseudovalsa lanciformis (Fr.) Ces. et De Not.,
anamorph *Coryneum brachyurum* Link

A5, *Circaeo-Alnetum* in area of meanders of river, 28 July 1990, KRAM 41 758; A6, on dead branch of *Betula pubescens*, 4 Aug. 1990, KRAM 41 786; A7, *Vaccinio uliginosi-Pinetum*, on dead branch of *Betula pendula*, 16 Aug. 1991; A8, *Calamagrostio arundinaceae-Piceetum*, on dead branch of *Betula pendula*, 16 Aug. 1991, KRAM 42 001; A10, *Tilio-Carpinetum*, on dead branch of *Betula pendula*, 18 Aug. 1991 and *Vaccinio uliginosi-Pinetum* on *Betula pubescens*, 18 Aug. 1991; A14, on dead branch of *Betula pubescens*, 17 Aug. 1991; B2, on dead branch of *Betula pendula*, 9 Aug. 1991; R4, *Vaccinio myrtilli-Pinetum*, on dead branch of *Betula pendula*, 10 Aug. 1991, KRAM 43 055; R5, *Piceo-Sphagnetum Girgensohnii* on dead branch of *Betula pubescens*, 10 Aug. 1991, KRAM 43 058; Mazowsze Region, Kaptury, 1 km of North of Pułusk, *Pinus sylvestris* with *Betula pendula* and *Cladonia* sp. forest, on dead twig of *Betula pendula*, 7 Aug. 1991, KRAM 43 070.

Coryneum brachyurum Link.

A10, *Tilio-Carpinetum*, on dead branch of *Carpinus betulus*, 18 Aug. 1991, KRAM 42 052; R5, *Piceo-Sphagnetum Girgensohnii* on dead branch of *Betula pubescens*, 10 Aug. 1991, KRAM 43 058.

Chlebicki (1991b) gave description of this fungus and its distribution in Poland.

Pseudovalsella telebola (Fr.) Höhn.
= *Melanconis thelebola* (Fr.) Sacc.

S1, on dead branch of *Alnus glutinosa*, 22 July 1990, KRAM 41 789.

Not rare species in Poland on alder twigs and branches (see Truszkowska and Chlebicki 1983b)

Pyrenopeziza rubi (Fr.) Rehm (Fig. 1H)

A14, on dead stems of *Rubus idaeus*, 17 Aug. 1991, KRAM 43 107; R4, *Vaccinio myrtilli-Pinetum*, on dead stem of *Rubus idaeus*, 10 Aug. 1991, KRAM 43 057.

It is probably not rare species, noted by Eichler (1902); Schroeter (1908); Moesz (1926) and Turnau (1983) in Poland.

Splanchnonema argus (Berk. et Broome)
Kuntze anamorph: *Myxocyclus polycistis* (Berk. et Br.) Sacc.

A8, *Calamagrostio arundinaceae-Piceetum*, on dead twigs of *Betula pendula*, 16 Aug. 1991, KRAM 42 000. Anamorph: A5, *Circaeo-Alnetum* in area of meanders of river, on dead branch of *Betula pubescens*, 28 July 1990, KRAM 41 756; A7, *Vaccinio uliginosi-Pinetum*, on dead twigs of *Betula pendula*, 16 Aug. 1991, KRAM 43 004; A8, *Calamagrostio arundinaceae-Piceetum*, on dead twigs of *Betula pendula*, 16 Aug. 1991 (together with *Splanchnonema argus*), KRAM 42 000; R4, *Piceo-Sphagnetum Girgensohnii* on dead branch of *Betula pubescens*, 10 Aug. 1991, KRAM 43 058.

It is not common species, noted by Chlebicki (1991a) in Poland.

Sporomega degenerans (Fr.) Corda

A7, *Vaccinio uliginosi-Pinetum*, on dead twigs of *Vaccinium uliginosum*, 16 Aug. 1991, KRAM 43 005; A10, *Vaccinio uliginosi-Pinetum*, on dead twigs of *Vaccinium uliginosum*, 18 Aug. 1991, KRAM 43 098.

The species has been noted by Eichler (1902) and Bujakiewicz (1979) in Poland.

Sydowia polyspora (Bref. & Tavel.) E. Müll., anamorph *Sclerophoma pityophila*
(Corda) Höhn.

Anamorph: K1, *Peucedano-Pinetum*, on dead twig of *Pinus sylvestris*, 8 Aug. 1991.

The anamorph of this fungus is very common in Poland (see Chlebicki 2004).

Therrya fuckelii (Rehm) Kujala

R4, *Vaccinio myrtilli-Pinetum*, on dead twig of *Pinus sylvestris*, 10 Aug. 1991, KRAM 43 052; K1, *Peucedano-Pinetum*, on dead twig of *Pinus sylvestris*, 8 Aug. 1991, KRAM 43 065.

It is probably common species in Poland.

Tubeufia cerea (Berk. et M.A. Curtis) Höhn.

Asci 71-80 × 9-10 μm, ascospores 36-48 × 3-3.8 μm

R1, *Tilio-Carpinetum stachyetosum*, on old stromata of *Diatrype undulata* on *Betula pubescens*, 9 Aug. 1991, KRAM 43 019.

It is rare species in Poland, noted on dead stromata of the genus *Diatrype* (Chlebicki and Skirgiełło 1995).

Valsa abietis Nitschke, anamorph *Cytospora abietis* Sacc.

A5, *Circaeo-Alnetum* in area of meanders of river, on dead twigs of *Picea abies*, 28 July 1990, KRAM 41 744; R4, *Vaccinio myrtilli-Pinetum*, on dead twig of *Picea abies*, 10 Aug. 1991; K1, *Peucedano-Pinetum*, on dead twig of *Picea abies*, 8 Aug. 1991; anamorph: R5, *Piceo-Sphagnetum Girgensohnii*, on dead twig of *Picea abies*, 10 Aug. 1991, KRAM 43 059.

It is common species on spruce twigs.

Valsa abietis Fr., anamorph *Cytospora pinastri* Fr.

Anamorph: K1, *Peucedano-Pinetum*, on dead needles of *Pinus sylvestris*, 8 Aug. 1991.

It is not rare fungus in Poland (see Chlebicki 1989).

Valsa auerswaldii Nitschke, anamorph *Cytospora personata* (Fr.) Sacc.

Anamorph: M1, on dead twig of *Frangula alnus*, 8 Aug. 1991, KRAM 43 073.

It is probably common species in Poland (see Eichler 1907; Truszkowska 1967)

Valsa cypri (Tul.) Tul. et C. Tul., anamorph *Cytospora pruinosa* (Fr.) Sacc.

Anamorph: S1, on dead twigs of *Fraxinus excelsior* still attached to the tree, 22 July 1990, KRAM 41 792.

It was noted by Schroeter (1908) in Lower Silesia and by Chlebicki in Białowieża National Park (Bujakiewicz et al. 1992).

Valsa nivea (Hoffm.) Fr., and anamorph *Cytospora nivea* Hoffm.

A14, at the bank of Jegrznia River, on twigs of *Salix elegantissima*.

It is not rare species in Poland (Eichler 1907).

Valsa pini (Alb. et Schwein.) Fr.

A9, *Calamagrostio arundinaceae-Piceetum*, on dead twig of *Pinus sylvestris*, 16 Aug. 1991, KRAM 41 991; K1, *Peucedano-Pinetum*, on dead twig of *Pinus sylvestris*, 8 Aug. 1991, KRAM 43 062.

Probably it is common species in Poland (Eichler 1907).

Valsa salicis (Fuckel) Winter

A11, peat bog, on dead twigs of *Salix nigricans*, 19 Aug. 1991, KRAM 43 086.

The species was noted in Babia Góra National Park by Chlebicki (1989) on twigs of *Salix retusa*.

Valsella clypeata Fuckel, anamorph *Cytospora clypeata* Sacc.

Anamorph: A8, *Calamagrostio arundinaceae-Piceetum*, on dead stems of *Rubus idaeus*, 16 Aug. 1991, KRAM 42 009; R4, *Vaccinio myrtilli-Pinetum*, on dead stem of *Rubus idaeus*, 10 Aug. 1991.

It was reported from Lower Silesia by Schroeter (1908).

Xylaria corniformis (Fr.) Fr.

A9, *Carici elongatae-Alnetum*, on lying wood of *Alnus glutinosa* covered by mosses, 16 Aug. 1991, KRAM 41 985; R1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Carpinus betulus*, 9 Aug. 1991, KRAM 43 033.

It was noted the first time in Poland by Lessøe (1987) in Białowieża National Park.

Xylaria hypoxylon (L.) Grev.

A9, *Carici elongatae-Alnetum*, on lying wood of *Populus tremula*, 16 Aug. 1991, KRAM 41 986.

It is a very common species on dead trunks and branches of various trees.

Xylaria longipes Nitschke

R1, *Tilio-Carpinetum stachyetosum*, on dead branch of *Acer platanoides*, 9 Aug. 1991, KRAM 43 034.

It is very common species on dead wood of various trees.

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Niektóre workowce zebrane w lasach północno-wschodniej Polski

Streszczenie

Praca zawiera informacje o występowaniu 100 gatunków workowców z takich obszarów jak Puszcza Augustowska, Wigierski Park Narodowy, Puszcza Borecka, Puszcza Romincka, Suwalszczyzna, Puszcza Kurpiowska, Biebrzański Park Narodowy. Wśród zebranych gatunków odnotowano 9 nowych taksonów dla Polski: *Eutypa lata* var. *aceri*, *Hypoderma sarmen-torum*, *Lophiotrema curreyi*, *Massaria sorbi*, *Massarina chamaecyparisi*, *Mollisia poaeoides*, *Mycosphaerella lycopodii-annotini*, *Phaeosphaeria juncina*, *Ph. phragmiticola*, *Plagiosphaeria immersa*. Wśród pozostałych gatunków znajdowało się wiele rzadkich taksonów jak: *Immothia hypoxylon*, *Mytilinidion rhenanum*, *Metameris aspidiorum*, *Diaporthe syngenesia*, *Splanchnone-ma argus* i inne. Badany teren zasługuje na dalsze, bardziej kompleksowe badania.