

New or interesting records of lichenicolous fungi from Poland III

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Abstract: KUKWA, M. 2005. New or interesting records of lichenicolous fungi from Poland III. – Herzogia 18: 37–46.

Records of 43 species of lichenicolous fungi are presented, four of which, *Lichenochora obscuroides*, *Lichenocodium reichlingii*, *Pyrenochaeta xanthoriae* and *Scutula dedicata*, are new to Poland.

Zusammenfassung: KUKWA, M. 2005. Neue oder interessante Funde lichenicoler Pilze aus Polen III. – Herzogia 18: 37–46.

Funde von 43 lichenicolen Pilzen werden vorgestellt. Vier Arten werden neu für Polen nachgewiesen: *Lichenochora obscuroides*, *Lichenocodium reichlingii*, *Pyrenochaeta xanthoriae* und *Scutula dedicata*.

Key words: Ascomycetes, Basidiomycetes, Myxomycetes, biodiversity, distribution.

Introduction

This study, the third in a series presenting distributional data on lichenicolous fungi in Poland (see KUKWA et al. 2002, KUKWA 2004), provides details of new localities for 43 taxa, four them new to Poland. Locality data are also provided for four additional taxa, *Carbonea supersparsa*, *Clypeococcum cetrariae*, *Stigmidium fuscatae* and *Vouauxiomyces truncatus*, reported as new to Poland by FALTYNOWICZ (2003).

Material and methods

Specimens were determined by the author with the aid of the following literature: DIEDERICH (1986, 1990, 1996), GALLOWAY & JAMES (1992), HAFELLNER (1989, 1994), HAWKSWORTH (1981, 1983), HAWKSWORTH & SANTESSON (1990), HOFFMANN & HAFELLNER (2000), KEISSLER (1930), KOCOURKOVÁ-HORÁKOVÁ (1998), ROUX & TRIEBEL (1994), SANTESSON & TØNSBERG (1994), TIBELL (1999), TRIEBEL (1989), TRIEBEL et al. (1997) and ZHURBENKO & TRIEBEL (2003). Representative material has been deposited in the lichen herbarium of the University of Gdańsk (UGDA), with duplicates donated to GPN, KRAM, OLS, OLTC and the herbarium of M.R.D. Seaward (Bradford).

All examined localities are provided with geographical coordinates based on the ATPOL grid square system as in KUKWA et al. (2002) and KUKWA (2004) (Fig. 1).

The species

Arthonia galactinaria Leight.

Under-recorded; probably rather common on members of the *Lecanora dispersa* group.

Host – *Lecanora dispersa* s. l. (apothecia).

SPECIMENS EXAMINED. [Ad-82] – Mikoszewo village, by the Wisła river, 54°20'12"N/18°56'40"E, on concrete, 28.03.2004, M. Kukwa 2947 (UGDA). [Bd-43] – c. 0.5 km N of Straszewo village, 53°49'30"N/19°02'00"E, on concrete, 27.09.1997, M. Kukwa s.n. (UGDA-L-9863).

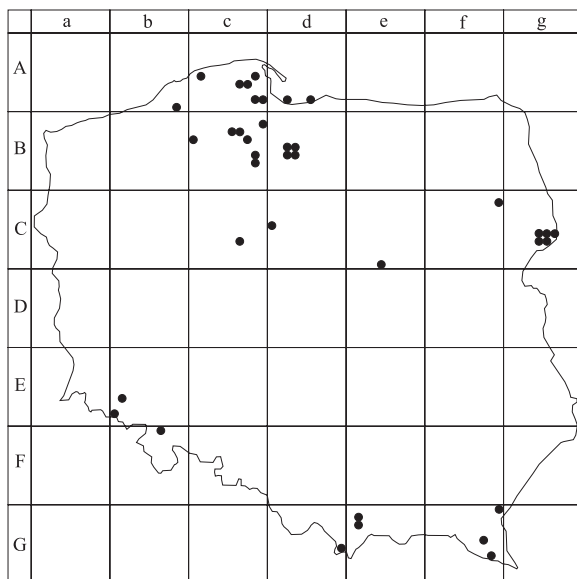


Fig. 1: Localities of the species given in ATPOL grid square system.

Arthrorhaphis aeruginosa R.Sant. & Tønsberg

Recently reported from Poland by CZARNOTA & KUKWA (2004).

Hosts – *Cladonia* spp. (squamules and podetia), *C. macilenta* (squamules), *C. ochrochlora* (squamules).

SPECIMENS EXAMINED. [Ac-89] – ‘Źródlika w dolinie Ewy’ nature reserve, 54°24’N/18°30’E, on *Cladonia ochrochlora* growing on black alder, 31.05.2003, M. Kukwa 1820 (UGDA). [Bc-25] – W of Schodno village, 54°03’11.8”N/17°50’25.5”E, on *Cladonia* sp. growing on soil, 16.07.2004, M. Kukwa 3389 (UGDA). [Bc-58] – Wda river valley, c. 0.75 km SW of Łuby village, 53°42’N/18°22’E, on *C. macilenta* growing on birch, 15.07.2004, M. Kukwa 2024a (UGDA). [Bc-68] – Stara Rzeka village, valley of small stream by the road, 53°39’00”N/18°17’46”E, on *Cladonia* sp. growing on wood, 07.07.2005, M. Kukwa 3386 (UGDA).

Athelia arachnoidea (Berk.) Jül.

A common lichenicolous fungus in Poland growing on a wide range of lichens.

Hosts – *Bacidina* sp. (sterile thallus), *Phaeophyscia orbicularis* (thallus), *Xanthoria parietina* (thallus).

SPECIMENS EXAMINED. [Ac-66] – c. 1 km W of Chmieleniec village, 54°35’20”N/17°56’30”E, on *Bacidina* sp. growing on sycamore, 28.08.2003, M. Kukwa 2674 (UGDA). [Bc-58] – Wda river valley, c. 0.75 km SW of Łuby village, 53°42’N/18°22’E, on fallen branch of aspen, 14.07.2003, M. Kukwa 1994a (UGDA). [Gf-68] – Wetlina village, 49°09’00”N/22°27’30”E, on *Xanthoria parietina* and *Phaeophyscia orbicularis* growing on elm, 12.08.2001, M. Kukwa 1071 (UGDA).

Carbonea supersparsa (Nyl.) Hertel

Included in the Polish checklist (see FALTYNOWICZ 2003 and literature cited therein), but without locality details.

Hosts – *Lecanora polytropa* (apothecia).

SPECIMEN EXAMINED. [Gf-10] – Diabli Kamień rock, vicinity of Folsz village, 49°36’00”N/21°22’20”E, on sandstone, 30.03.1936, T. Sulma s.n. (UGDA-L-8632).

Cercidospora epipolytropa (Mudd) Arnold

Reported in Poland only from Tatra Mts. (ALSTRUP & OLECH 1996).

Host – *Lecanora polytropa* (apothecia).

SPECIMEN EXAMINED. [**Ge-11**] – Kamienica stream Halley, forest section No 109, 45°36'N/20°15'E, on sandstone, 29.06.1995, M. Kukwa s.n. (UGDA-L-9204).

Cercidospora macrospora (Uloth) Hafellner & Nav.-Ros.

Not reported from Poland for c. 125 years (see FAŁTYNOWICZ 2003 and literature cited therein).

Host – *Protoparmeliopsis muralis* (thallus).

SPECIMEN EXAMINED. [**Bd-43**] – Pułkowice village, 53°51'31"N/19°02'00"E, on roofing tile, 09.1997, M. Kukwa s.n. (UGDA-L-10067).

Clypeococcum cetrariae Hafellner

Included in the Polish checklist (FAŁTYNOWICZ 2003), but details of localities not provided.

Host – *Cetraria islandica* (thallus).

SPECIMENS EXAMINED. [**Ad-85**] – between Piaski village and Krynica Morska town, forest section No 15, 54°24'56"N/19°33'37"E, on soil, 11.10.1998, W. Fałtynowicz s.n. (UGDA-L-8968, dupl. in GPN, KRAM, OLS, OLTC); ibid. 11.07.2001, M. Kukwa 831 (UGDA, herb. MRDS); ibid., 29.08.2003, M. Kukwa 2695 (UGDA). [**Cd-40**] – Toruń city, 'Zadroże' sand dune, 52°58'28"N/18°33'23"E, on soil, 11.09.2004, M. Kukwa 3531 (UGDA).

Clypeococcum hypocenomycis D.Hawksw.

A common lichenicolous fungus in Poland (see FAŁTYNOWICZ 2003 and literature cited therein, KUKWA 2004), usually occurring in well-lit forests.

Host – *Hypocenomyce scalaris* (thallus).

SPECIMENS EXAMINED. [**Ab-98**] – c. 3 km SW of Janiewice village, c. 1 km NW of Janiewice gamekeeper's cottage, 54°10'00"N/16°44'00"E, on pine, 06.2003, M. Kukwa 1831 (UGDA). [**Ac-88**] – c. 1 km S of Lake Tuchomskie, 54°24'40"N/18°21'40"E, on birch, 11.06.2004, M. Kukwa 3285 (UGDA). [**Ad-85**] – 'Buki Mierzei Wiślanej' nature reserve, 54°21'49"N/19°22'15"E, on pine, 28.03.2004, M. Kukwa 2976 (UGDA). [**Bc-26**] – 'Krwawe Doły' nature reserve, 53°59'30"N/18°01'00"E, on pine, 17.10.2001, M. Kukwa 1312 (UGDA). [**Bc-37**] – between Leśna Huta and Cegielnia villages, 53°53'20"N/18°06'30"E, on birch, 04.09.2001, M. Kukwa 1127 (UGDA); c. 0.5 km E of Leśna Huta village, 53°53'20"N/18°06'10"E, by Struga stream, on pine, 04.09.2001, M. Kukwa 1124a (UGDA). [**Bc-58**] – c. 0.75 km SW of Łuby village, 53°42'N/18°22'E, on pine, 18.06.2002, M. Kukwa 1546 (UGDA); ibid., 14.07.2003, M. Kukwa 2002 (UGDA). [**Bc-68**] – E of Stara Rzeka village, 53°38'41"N/18°18'59"E, on pine, 13.06.2004, M. Kukwa 3288 (UGDA). [**Bd-53**] – E of Szadowo, S slope of Liwa river valley, 53°46'21"N/19°03'47"E, on birch, 12.04.2005, M. Kukwa 3088 (UGDA). [**Cf-19**] – c. 1.5 km SW of Waniewska Wólka village, 53°03'05"N/22°52'09"E, on pine, 13.07.2002, M. Kukwa 1587 (UGDA). [**Cg-55**] – Białowieża National Park, forest section No 317C, 52°45'00"N/23°52'48"E, on pine, 28.03.2001, M. Kukwa 360 (UGDA). [**Cg-56**] – Białowieża National Park, forest section No 402A, 52°43'28"N/23°52'49"E, on pine, 28.03.2001, M. Kukwa 345 (UGDA). [**Cg-65**] – c. 3.5 km WNW of Białowieża Krzyże village, 52°41'24"N/23°46'39"E, on birch, 29.03.2001, M. Kukwa 386 (UGDA).

Cornutispora lichenicola D.Hawksw. & B.Sutton

Only reported in Poland from one locality (KUKWA et al. 2002); it was considered rare, but is probably overlooked.

Hosts – *Hypogymnia physodes*, *Lecanora carpinea*, *Parmeliopsis ambigua* (thallus).

SPECIMENS EXAMINED. [**Bc-58**] – c. 0.75 km SW of Łuby village, 53°42'N/18°22'E, on *Parmeliopsis ambigua* growing on pine, 15.07.2003, M. Kukwa 2026 (UGDA). [**Bd-43**] – Lisewo forest division, forest section No 210, S of Mątki village, 53°10'30"N/19°00'00"E, on *Hypogymnia physodes* growing on ash, 02.11.2003, M. Kukwa 2843 (UGDA-L-9192). [**Bd-53**] – Szadowo village, S slope of Liwa river valley, 53°46'28"N/19°03'25"E, on *Lecanora carpinea* growing on oak, 12.04.2004, M. Kukwa 3046 (UGDA).

Corticifraga fuckelii (Rehm) D.Hawksw. & R.Sant.

The most commonly collected peltigericolous fungus in Poland (e.g., KUKWA 2004).

Hosts – *Peltigera extenuata*, *P. rufescens* (thallus).

SPECIMENS EXAMINED. [**Ac-58**] – c. 1 km N of Wejherowo town, 54°37'15"N/18°12'30"E, on *Peltigera rufescens* growing on soil, 21.06.2004, M. Kukwa 3343 (UGDA). [**Bd-43**] – c. 2 km S of Nowa Wieś village, 53°11'30"N/19°00'20"E, on *P. extenuata* growing on soil, 03.02.2002, M. Kukwa 1333 (UGDA).

Illosporiosis christiansenii (B.L.Brady & D.Hawksw.) D.Hawksw.

A parasite on lichens of Xanthorion communities in Poland.

Host – *Physcia tenella* (thallus).

SPECIMEN EXAMINED. [**Ac-66**] – c. 1 km W of Chmieleniec village, 54°35'20"N/17°56'30"E, on maple, 28.08.2003, M. Kukwa 2675 (UGDA).

Illosporium carneum Fr.

Host – *Peltigera extenuata* (thallus).

SPECIMEN EXAMINED. [**Bd-43**] – c. 0.5 km NE of Małki village, 53°51'30"N/19°00'30"E, on soil, 24.08.2003, M. Kukwa 2665 (UGDA).

Licea parasitica (Zukal) Martin

A myxomycete commonly growing on epiphytic lichens; sometimes the fruit bodies were observed on the bark only, but such records are not included here.

Host – *Physcia adscendens* (thallus).

SPECIMEN EXAMINED. [**Gf-47**] – Łopienka valley, former village Łopienka, 49°13'N/22°18'E, on sycamore, 13.08.2001, M. Kukwa 1093 (UGDA).

Lichenochora obscuroides (Lindsay) Triebel & Rambold

New to Poland.

Host – *Phaeophyscia orbicularis* (thallus).

SPECIMEN EXAMINED. [**Ac-58**] – N of Wejherowo, by Reda river, 54°37'13"N/18°12'32"E, on willow, 27.06.2004, M. Kukwa 3359 (UGDA).

Lichenochora weilli (Werner) Hafellner & R.Sant.

Only recently reported from Poland (KUKWA 2004).

Host – *Physconia enteroxantha* (thallus).

SPECIMEN EXAMINED. [**Ac-66**] – Paraszyno village, 54°32'15"N/18°00'34"E, on maple, 04.08.2004, M. Kukwa 3415 (UGDA).

Lichenocodium erodens M.S.Christ. & D.Hawksw.

One of the commonest lichenicolous fungi in Poland (see FAŁTYNOWICZ 2003 and literature cited therein, KUKWA 2004).

Hosts – *Hypogymnia physodes* (thallus), *Lecanora conizaeoides* (thallus and apothecia), *L. sp.* (thallus), *Melanelia fuliginosa* (thallus), *Parmelia sulcata* (thallus), *Pseudevernia furfuracea* (thallus).

SPECIMENS EXAMINED. [**Bc-58**] – c. 0.75 km SW of Łuby village, 53°42'N/18°22'E, on *Parmelia sulcata* growing on black alder, 11.07.2003, M. Kukwa 1957a (UGDA). [**Ce-94**] – 'Pomieczówek' nature reserve, vicinity of Pomieczówek town, 52°29'N/20°44'E, on *Lecanora conizaeoides* growing on pine, 19.10.2001, M. Kukwa 1323 (UGDA). [**Cg-54**] – Białowieża Primeval Forest, Budy village, 52°43'15"N/23°53'30"E, on *Melanelia fuliginosa* growing on lime tree, 31.03.2001, M. Kukwa 527 (UGDA). [**Cg-55**] – Białowieża National Park, forest section No 401A, 52°43'28"N/23°52'48"E, on *Hypogymnia physodes* growing on lime tree, 28.03.2001, M. Kukwa 312 (UGDA). [**Cg-56**] – Białowieża National Park, forest section No 402A, 52°43'28"N/23°52'49"E, on *Lecanora sp.* growing on hornbeam, 28.03.2001, M. Kukwa 325 (UGDA). [**Ge-21**] – Gorce Mts, Jonkówki glade, alt. 1050 m, 49°31'12"N/20°08'19"E, on *Hypogymnia physodes*

growing on beech, 01.05.1999, M. Kukwa s.n. (UGDA). [**Gf-10**] – Folsz stream valley, vicinity of Folsz village, 49°36'00"N/21°22'20"E, on *Hypogymia physodes* growing on fir, 08.09.1954, T. Sulma s.n. (UGDA-L-6228); *ibid.*, on *Pseudevernia furfuracea* growing on beech, 08.09.1954, T. Sulma s.n. (UGDA-L-6224; in mixed infection with *Phoma* sp.). [**Gf-47**] – Łopienka valley, vicinity of the former village Łopienka, 49°13'N/22°18'E, on *Parmelia sulcata* growing on ash, 15.08.2001, M. Kukwa 1116 (UGDA).

Lichenocodium lecanorae (Jaap) D.Hawksw.

Hosts – *Evernia prunastri* (thallus), *Lecanora carpinea*, *L. sp.* (*L. chlarotera*-group) (apothecia).

SPECIMENS EXAMINED. [**Bd-43**] – c. 2 km WSW of Mikołajki Pomorskie, 53°50'30"N/19°08'20"E, on *Lecanora carpinea* and *L. sp.* growing on ash, 10.03.2002, M. Kukwa 1347 & 1348 (UGDA). [**Cc-66**] – 'Mierucinek nature reserve, vicinity of Mierucin village, 52°45'N/18°01'E, on *Evernia prunastri* growing on oak, 17.10.2001, M. Kukwa 1322 (UGDA). [**Cg-65**] – Białowieża Primeval Forest, 'Żebra Żubra' trail, forest section No 425, 52°42'17"N/23°48'03"E, on *Lecanora sp.*, 03.05.2004, M. Kukwa 3261 (UGDA).

Lichenocodium reichlingii Diederich

New to Poland.

Host – *Ramalina fraxinea* (thallus).

SPECIMEN EXAMINED. [**Ac-51**] – Słowiński National Park, forest section No 143, by E bank of Lake Gardno, 54°39'00"N/17°10'20"E, on *Populus nigra*, 03.10.1992, W. Fałtynowicz & J. Miądlkowska s.n. (UGDA-L-9986).

Lichenocodium xanthoriae M.S.Christ.

Uncommon in Poland, being previously known from only from six localities (see KUKWA 2004 and literature cited therein)

Host – *Xanthoria polycarpa* (apothecia).

SPECIMENS EXAMINED. [**Bd-43**] – c. 2 km S of Nowa Wieś village, 53°11'30"N/19°00'20"E, on plum tree and *Sambucus nigra*, 01.02.2004, M. Kukwa 2892 & 2896 (UGDA-L-9396 & 9400).

Microcalicium disseminatum (Ach.) Vain.

Growing on calicioid lichens or free-living algae, but sometimes saprophytic on bark or wood (TIBELL 1999).

Host – *Chaenotheca trichialis* (thallus), free-living epiphytic algae.

SPECIMENS EXAMINED. [**Bc-68**] – Wda river valley, between Błędno and Stara Rzeka villages, 53°40'05.5"N/18°20'22.6"E, on algae growing on oak, 06.07.2004, M. Kukwa 3367 (UGDA); *ibid.*, 53°39'52"N/18°19'58"E, on algae growing on oak, 06.07.2004, M. Kukwa 3379 (UGDA). [**Bd-53**] – E of Szadowo village, S slope of the Liwa river valley, 53°46'21"N/19°03'47"E, on *Chaenotheca trichialis* growing on black alder, 12.04.2004, M. Kukwa 3085 (UGDA).

Muellerella lichenicola Hepp ex Müll.Arg.

Recently reported from Poland by ŁUBEK (2002).

Host – *Aspicilia calcarea* (thallus).

SPECIMEN EXAMINED. [**Eb-61**] – vicinity of Wojcieszów village, Miłek I Mt., 50°56'N/15°55'E, alt. c. 570 m, on limestone, 20.09.2003, M. Kukwa 2804 (UGDA).

Muellerella ventosicola (Mudd) D.Hawksw.

According to KOCOURKOVÁ (2000 and literature cited therein) the species was reported from Poland as *Tichothecium gemmiferum* (Taylor) Körb., however FAŁTYNOWICZ (2003) referred the records of *T. gemmiferum* to *Endococcus propinquus* (Körb.) D.Hawksw. The revision of the corresponding specimens are necessary to clarify which species they meant.

Host – *Rhizocarpon* cf. *reductum* (thallus).

SPECIMEN EXAMINED. [Eb–80] – Karkonosze Mts., E slope of Śnieżka Mt., alt. 1550 m, 50°44'20"N/15°45'00"E, on rock, 15.06.1992, Sz. Bzoma s.n. (UGDA-L-9965).

Phaeopyxis punctum (A.Massal.) Rambold, Triebel & Coppins

Parasitic in Poland, usually on squamules of different *Cladonia* species (see FALTYNOWICZ 2003 and literature cited therein).

Hosts – *Cladonia* sp., *C. ochrochlora* (squamules).

SPECIMENS EXAMINED. [Cg–55] – Białowieża National Park, forest section No 314, by Orłówka stream, 52°44'59"N/23°49'28"E, on *Cladonia ochrochlora* growing on black alder, 30.03.2001, M. Kukwa 437 (UGDA). [Gf–10] – Diabli Kamień rock, vicinity of Folsz village, 49°36'00"N/21°22'20"E, on *Cladonia* sp., no date, T. Sulma s.n. (UGDA-L-6227).

Pronectria robergei (Mont. & Desm.) Lowen

Only the third record for Poland (see KUKWA 2004).

Host – *Peltigera extenuata* (thallus).

SPECIMEN EXAMINED. [Bd–43] – c. 0.75 km NE of Mątki village, 53°51'45"N/19°00'30"E, on soil, 24.08.2003, M. Kukwa 2666 (UGDA).

Pyrenochaeta xanthoriae Diederich

New to Poland.

Host – *Xanthoria parietina* (apothecia).

SPECIMEN EXAMINED. [Ac–67] – Luzino village, 54°33'N/18°05'E, on maple by roadside, 10.06.2000, M. Kukwa s.n. (UGDA-L-9931).

Refractohilum peltigerae (Keissl.) D.Hawksw.

Rarely reported from Poland (see FALTYNOWICZ 2003 and literature cited therein).

Host – *Peltigera extenuata* (thallus).

SPECIMENS EXAMINED. [Bc–25] – W of Schodno village, 54°03'N/17°50"E, on soil, 16.07.2008, M. Kukwa 3390 (UGDA). [Bd–43] – c. 2 km S of Nowa Wieś, 53°51'24"N/19°00'04"E, on soil, 22.07.2001, M. Kukwa 850 (UGDA); ibid., 10.08.2002, M. Kukwa 1689 (UGDA).

Scutula dedicata Triebel, Wedin & Rambold

New to Poland. The apothecia were accompanied by the *Libertiella*-like anamorph with conidia $6 \times 3 \mu\text{m}$.

Host – *Peltigera didactyla* (thallus).

SPECIMEN EXAMINED. [Bc–19] – S border of Lake Bronisława, near Cząstkowice village, 54°08'30"N/18°25'30"E, on soil, 28.10.2000, M. Kukwa s.n. (UGDA-L-8991).

Stigmatidium fuscatae (Arnold) R.Sant.

Included in the Polish checklist (see FALTYNOWICZ 2003 and literature cited therein), but without locality details; an additional locality is added.

Host – *Acarospora fuscata* (thallus).

SPECIMENS EXAMINED. [Fb–06] – Góry Sowie Mts., vicinity of Srebrna Góra village, rocky outcrops by the fortress, 50°34'32"N/16°38'45"E, on *Acarospora* cf. *fuscata* growing on rocks, 22.04.2004, M. Kukwa 3099 (UGDA). [Gf–10] – Diabli Kamień rock, vicinity of Folsz village, 49°36'00"N/21°22'20"E, on *A. fuscata* on rock, 08.09.1954, T. Sulma s.n. (UGDA-L-6226).

Stigmidium microspilum (Körb.) D.Hawksw.

Not reported from Poland for c. 70 years (see FAŁTYNOWICZ 2003 and literature cited therein).

Host – *Graphis scripta* (thallus).

SPECIMEN EXAMINED. [Ac–58] – N of Wejherowo town, by Reda rive, 54°37'19"N/18°12'17"E, on horn beam, 27.06.2004, M. Kukwa 3353 (UGDA).

Stigmidium mycobilimbiae Cl.Roux, Triebel & Etayo

Only recently been reported from Poland from one locality (CZARNOTA & KUKWA 2004).

Host – *Bilimbia* sp. (thallus).

SPECIMEN EXAMINED. [Gd–59] – Tatra Mts., S slope of Wysoki Grzbiet Mt., c. 1570 m, 49°13'52"N/19°53'17"E, on mosses, 23.07.2002, M. Kukwa 1679a (UGDA).

Syzygospora physciacearum Diederich

The commonest parasite on *Physcia* species in Poland (see KUKWA et al. 2002, KUKWA 2004)

Host – *Physcia tenella* (thallus).

SPECIMENS EXAMINED. [Ac–66] – c. 1 km W of Chmielieniec village, 54°35'20"N/17°56'30"E, on sycamore, 28.08.2003, M. Kukwa 2676 (UGDA). [Ad–82] – N Mikoszewo village, 'Mewia Łacha' nature reserve, E bank of Lake Mikoszewskie, 54°20'52"N/18°57'58"E, on willow, 28.03.2004, M. Kukwa 2954 (UGDA). [Ac–88] – S of Lake Tuchomskie, 54°24'40"N/18°21'40"E, on beech, 23.06.2004, M. Kukwa 3349 (UGDA). [Bc–68] – c. 2.5 km W of Stara Rzeka village, below Łąka Cieściernicka, 53°39'20"N/18°17'00"E, on dead aspen, 07.07.2007, M. Kukwa 3388 (UGDA).

Taeniolella punctata M.S.Christ. & D.Hawksw.

Recently reported from Poland by JANDO & KUKWA (2003).

Host – *Graphis scripta* (thallus).

SPECIMENS EXAMINED. [Ac–66] – c. 2.5 km S of Porzeczce village, 54°29'56"N/17°59'52"E, on ash, 04.08.2004, M. Kukwa 3419 (UGDA). [Bc–68] – Stara Rzeka village, Wda river valley, on hazel, 53°39'00"N/18°17'46"E, , 13.06.2004, M. Kukwa 3303 (UGDA). [Bd–42] – Lisewo forest division, forest section No 190, Postolińska Struga river valley, on hornbeam, 21.04.2003, M. Kukwa 1790 (UGDA). [Cg–65] – Białowieża National Park, forest section No 372A, on hornbeam, 02.05.2004, M. Kukwa 3240 (UGDA).

Telogalla olivieri (Vouaux) Nik.Hoffm. & Hafellner

Only reported from Poland by NAVROTSKAYA et al. (1996).

Host – *Xanthoria parietina* (thallus).

SPECIMENS EXAMINED. [Ac–58] – N of Wejherowo, by Reda river, 54°37'13"N/18°12'32"E, on willow, on willow, 27.06.2004, M. Kukwa 3358 (UGDA). [Bc–68] – c. 2.5 km W of Stara Rzeka village, below Łąka Cieściernicka, 53°39'20"N/18°17'00"E, on aspen, 14.06.2004, M. Kukwa 3307 (UGDA); *ibid.*, 05.07.2004, M. Kukwa 3363 (UGDA); Stara Rzeka village, 53°39'00"N/18°17'46"E, on aspen, 05.07.2004, M. Kukwa 3364 (UGDA).

Thelocarpon epibolum Nyl.

Only rarely reported from lichen thalli (i.e. *Peltigera*) in Poland; more frequently found on other substrata (see FAŁTYNOWICZ 2003 and literature cited therein).

Host – *Peltigera rufescens* (thallus).

SPECIMEN EXAMINED. [Ac–58] – c. 1 km N of Wejherowo town, 54°37'15"N/18°12'30"E, on soil, 21.06.2004, M. Kukwa 3341 (UGDA).

Thelocarpon lichenicola (Fuckel) Poelt & Hafellner

Only the anamorph found; the characters agree well with those reported for pycnidia of *T. lichenicola* by KOCOURKOWÁ-HORÁKOVÁ (1998).

Host – *Trapeliopsis gelatinosa* (thallus)

SPECIMENS EXAMINED. [Eb-80] – Karkonosze Mts., Płomnica stream valley, by the Buława rock, 50°45'20"N/15°47'00"E, on soil, 03.05.2002, M. Kukwa 1529 (UGDA).

***Tremella cladoniae* Diederich & M.S.Christ.**

Growing on thalli of *Cladonia* species in humid forests.

Hosts – *Cladonia ochrochlora*, *C. sp.* (thallus).

SPECIMENS EXAMINED. [Cg-55] – Białowieża National Park, forest section No 399A, 52°43'22"N/23°50'58"E, on *Cladonia ochrochlora* growing on spruce, 02.05.2004, M. Kukwa 3248 (UGDA). [Cg-65] – Białowieża Primeval Forest, 'Żebra Żubra' trail, forest section No 426, 52°42'37"N/23°48'28"E, on *C. sp.* growing on bark of stump, 03.05.2004, M. Kukwa 3251 (UGDA).

***Tremella hypogymniae* M.S.Christ. & Diederich**

A common lichenicolous fungus in Poland, usually growing in humid and shaded situations (see KUKWA et al. 2002; KUKWA 2004).

Host – *Hypogymnia physodes* (thallus).

SPECIMENS EXAMINED. [Bc-58] – Wda river valley, c. 0.75 km SW of Łuby village, 53°42'N/18°22'E, on oak, 27.06.2002, M. Kukwa 1568 (UGDA). *ibid.*, 13.07.2003, on hazel M. Kukwa 1986 (UGDA). [Bc-68] – Wda river valley, between Błędno and Stara Rzeka villages, 53°40'04"N/18°20'22"E, on black alder, 06.07.2004, M. Kukwa 3382 (UGDA). [Cg-55] – Białowieża National Park, forest section No 285, 52°44'53"N/23°50'30"E, on ash tree, 30.03.2001, M. Kukwa 454 (UGDA); forest section No 314C, 52°44'59"N/23°49'28"E, on aspen, 27.03.2001, M. Kukwa 282 (UGDA); forest section No 401A, 52°43'28"N/23°52'48"E, on lime tree, 28.03.2001, M. Kukwa 311 (UGDA). [Cg-56] – Białowieża National Park, forest section No 373C, 52°43'41"N/23°52'49"E, on fallen branches, 28.03.2001, M. Kukwa 352a (UGDA). [Cg-64] – Puszcza Białowieska, Czerlonka village, 52°41'30"N/23°43'10"E, on aspen, 29.03.2001, M. Kukwa 409 (UGDA). [Cg-65] – Białowieża Primeval Forest, c. 1 km W of Białowieża Krzyże village, 52°41'40"N/23°48'50"E, on hornbeam, 29.03.2001, M. Kukwa 381 (UGDA).

***Tremella lichenicola* Diederich**

Appears to be a rather rare lichenicolous fungus in Poland (see FAŁTYNOWICZ 2003 and literature cited therein, KUKWA 2004).

Host – *Mycoblastus fucatus* (thallus).

SPECIMENS EXAMINED. [Bc-58] – Wda river valley, c. 0.75 km SW of Łuby village, 53°42'N/18°22'E, on lime, 25.06.2002, M. Kukwa 1558 (UGDA). [Cg-55] – Białowieża National Park, between forest sections Nos. 314D & 340C, 52°44'45"N/23°50'00"E, on branch of undetermined tree, 02.05.2004, M. Kukwa 3228 (UGDA). [Cg-64] – Puszcza Białowieska, Czerlonka village, 52°41'30"N/23°43'10"E, on hornbeam, 29.03.2001, M. Kukwa 412 (UGDA).

***Tremella phaeophysciae* Diederich & M.S.Christ.**

A rather uncommon lichenicolous fungus in Poland (see FAŁTYNOWICZ 2003 and literature cited therein, KUKWA 2004).

Host – *Phaeophyscia orbicularis*.

SPECIMEN EXAMINED. [Gf-10] – Folsz stream valley, vicinity of Folsz village, 49°36'00"N/21°22'20"E, on beech, 08.09.1954, T. Sulma s.n. (UGDA-L-6225).

***Tremella ramalinae* Diederich**

Recorded in Poland from only one locality (KOWALEWSKA & KUKWA 2003).

Host – *Ramalina fraxinea* (thallus).

SPECIMEN EXAMINED. [Ac-51] – Słowiński National Park, forest section No 143, by E bank of Lake Gardno, 54°39'00"N/17°10'20"E, on *Populus nigra*, 03.10.1992, W. Fałtynowicz & J. Miądlkowska s.n. (UGDA-L-9985, dupl. in GPN, KRAM).

***Vouauxiella lichenicola* (Linds.) Petr. & Syd.**

A common lichenicolous fungus on *Lecanora* species growing on free-standing trees.

Hosts – *Lecanora argentata*, *L. chlarotera*, *L. sp.* (*L. chlarotera*-group) (apothecia).

SPECIMENS EXAMINED. [**Bc-30**] – Zamek Kiszewski village near Stara Kiszewa village, 54°59'00"N/18°11'50"E, on *Lecanora chlarotera* growing on maple, 19.05.2003, M. Kukwa 1814 (UGDA). [**Bd-43**] – Mątki village, 53°51'20"N/19°00'00"E, on *L. argentata* growing on ash, 02.11.2003, M. Kukwa 2834 (UGDA-L-9183); c. 2 km WSW of Mikołajki Pomorskie village, 53°50'30"N/19°08'20"E, on *L. sp.* growing on ash, 10.03.2002, M. Kukwa 1346 (UGDA). [**Bd-52**] – Kwidzyn town, Furmańska street, 53°44'N/18°56'E, on *L. sp.* growing on maple, 08.08.2001, A. Kalinowska s.n. (UGDA-L-8879). [**Gf-10**] – Folsz stream valley, vicinity of Folsz village, 49°36'00"N/21°22'20"E, on *L. sp.* growing probably on beech, no date, T. Sulma s.n. (UGDA-L-6222).

***Vouauxiomyces truncatus* (de Lesd.) Dyko & D.Hawksw.**

Included in the Polish checklist (see FAŁTYNOWICZ 2003 and literature cited therein), but without locality details.

Host – *Flavoparmelia caperata* (thallus).

SPECIMEN EXAMINED. [**Gf-10**] – Folsz stream valley, vicinity of Folsz village, 49°36'00"N/21°22'20"E, on beech, 08.09.1954, T. Sulma s.n. (UGDA-L-6223).

***Xanthoriicola physciae* (Kalchbr.) D. Hawksw.**

Common in Poland (see FAŁTYNOWICZ 2003 and literature cited therein, KUKWA 2004).

Host – *Xanthoria parietina* (apothecia).

SPECIMENS EXAMINED. [**Ac-58**] – c. 1 km N of Wejherowo town, 54°33'15"N/18°12'32"E, on willow, 27.06.2004, M. Kukwa 3359a (UGDA). [**Bc-68**] – c. 2.5 km W of Stara Rzeka village, below Łąka Cieściernicka, 53°39'20"N/18°17'00"E, on aspen, 14.06.2004, M. Kukwa 3308 (UGDA); Wda river valley, Stara Rzeka village, 53°39'00"N/18°17'46"E, on aspen, 05.07.2004, M. Kukwa 3365 (UGDA). [**Bd-43**] – c. 1 km E of Pierzchowice village, 53°50'10"N/19°06'40"E, on beech, 10.03.2002, M. Kukwa 1349 (UGDA); Pierzchowice village, 53°50'10"N/19°06'10"E, on aspen, 10.03.2002, M. Kukwa 1350 (UGDA). [**Cf-19**] – c. 1 km N of Bokiny village, 53°03'08"N/22°55'57"E, on *Populus nigra*, 15.07.2002, M. Kukwa 1601 (UGDA). [**Cg-55**] – Białowieża National Park, forest section No 401B, 52°43'28"N/23°52'48"E, 28.03.2001, M. Kukwa 318 (UGDA). [**Cg-56**] – Białowieża National Park, forest section No 373C, 52°43'41"N/23°52'49"E, on aspen, 28.03.2001, M. Kukwa 331 (UGDA).

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