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LICHENS FROM GOMEL REGION: A PROVISIONAL CHECKLIST

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Abstract

Tsurykau A., Khramchankova V., 2011: Lichens from Gomel region: a provisional checklist [Gomelio regiono kerpės – pirminis sąrašas]. – Bot. Lith., **17(4)**: 157–163.

A total of 267 species and two subspecies of the lichen-forming and lichenicolous fungi from Gomel region (Republic of Belarus) are listed. Of these, seven lichen species and two lichenicolous fungi are indicated as new to the region. *Acarospora moenium* is a new lichen species to Belarus. There are 14 species included in the Red Data Book of the Republic of Belarus.

Keywords: lichens, checklist, biodiversity, Gomel, Belarus.

INTRODUCTION

Gomel region is in the south-eastern part of the Republic of Belarus, with a population of ca. 1.5 million people. The total area is 40400 km^2. It is situated in Polesye flatland with its unique wetlands. The investigated area is characterized by the presence of mixed forest types, intensive agriculture, the developed industry and communication network, relocation and alienation of the zones that have been formed as a result of counter-measures applied to mitigate the consequences of Chernobyl Nuclear Power Plant accident (Shamjakin, 1991).

The initial information about the lichen flora from Gomel region relates to the beginning of the 20th century (Tsurykau & Khramchankova, 2011). However, a comprehensive checklist of lichens from Gomel region has never been made before, though such list is valuable for the further investigation of lichen biota in Belarus.

MATERIALS AND METHODS

The material was based on the specimens collected by the authors during the field trips in 2002–2011 and on the analysis of literature sources. Additional information was obtained by revision of the herbarium specimens deposited at the Belarusian Polesye Scientific Herbarium of F. Skorina Gomel State University. Most of them were collected by O. Shakhrai in 1965–1975. Anatomical features were studied using Nikon Eclipse 80i light microscope (hand-cut sections mounted in water). Thermo Fisher Finesse E Microtome was used in some cases.

All specimens collected and revised by the authors are deposited at the Belarusian Polesye Scientific Herbarium of F. Skorina Gomel State University. The species mentioned in the references of the paper were not revised.

Nomenclature mainly follows Esslinger (2011).

RESULTS

A total of 267 species and two subspecies of the lichen-forming and lichenicolous fungi from Gomel region (Republic of Belarus) are listed. Of these, seven lichen species (*Acarospora moenium*, *Calicium glaucellum*, *Caloplaca citrina*, *Lepraria elobata*, *L. jackii*, *Micarea prasina* and *Verrucaria muralis*) and two lichenicolous fungi (*Athelia arachnoidea* and *Clypeococcum hypocenomycis*) are reported for the first time in the region. *Acarospora moenium* is a new lichen species to Belarus.

The references to the first citations of lichen species are provided for the species that were not found during the authors' field studies. *Arthonia fuliginosa*, *Bacidia laurocerasi*, *Cetrelia olivetorum*, *Cladonia incrassata*, *Lecanora argentata*, *Lobaria pulmonaria*, *Melaspilea gibberulosa*, *Opegrapha viridis*, *Parmeliopsis hyperopta*, *Parmotrema stuppeum*, *Physconia perisidiosa*, *Pyrenula nitidella*, *Ramalina baltica*, *Xanthoparmelia conspersa*, *Xanthoparmelia pulla* were not found during the field studies, but voucher specimens of these species are deposited at the Belarusian Polesye Scientific Herbarium of F. Skorina Gomel State University.

List of species

Species new to Gomel region are marked with an asterisk (*). Species new to Belarus are marked with two asterisks (**).

Acarospora fuscata (Schrad.) Arnold (Savich, 1911)
***Acarospora moenium* (Vain.) Räsänen
Acrocordia gemmata (Ach.) A. Massal.
Amandinea punctata (Hoffm.) Coppins et Scheid.
Anaptychia ciliaris Körb.
Arthonia dispersa (Schrad.) Nyl.
Arthonia fuliginosa (Schaer.) Flot.
Arthonia punctiformis Ach. (Savich, 1911)
Arthonia radiata (Pers.) Ach. (Savich, 1910)
Arthonia spadicea Leight. (Golubkov, 1992)
Arthothelium ruanum (A. Massal.) Körb.
Arthrosporum populorum A. Massal.
Aspicilia cinerea (L.) Körb. (Gorbach, 1973)
**Athelia arachnoidea* (Berk.) Jülich
Bacidia bagliettoana (A. Massal. et De Not.) Jatta
Bacidia hegetschweileri (Hepp) Vain. (Golubkov, 2007)
Bacidia igniarii (Nyl.) Oksner (Savich, 1911)
Bacidia laurocerasi (Delise ex Duby) Zahlbr.
Bacidia rubella (Hoffm.) A. Massal. (Lyubitskaya, 1914)
Bacidia vermifera (Nyl.) Th. Fr. (Savich, 1909)
Baeomyces rufus (Huds.) Rebent. (Golubkov, 1992)
Biatora globulosa (Flörke) Fr. (Golubkov, 1992)
Bryoria capillaris (Ach.) Brodo et D. Hawksw. (Golubkov, 2007)
Bryoria chalybeiformis (L.) Brodo et D. Hawksw. (Savich, 1910)
Bryoria furcellata (Fr.) Brodo et D. Hawksw. (Kravchuk, 2001)
Bryoria fuscescens (Gyelnik) Brodo et D. Hawksw. (Ges', 1960)
Bryoria implexa (Hoffm.) Brodo et D. Hawksw. (Savich, 1910)
Buellia disciformis (Fr.) Mudd (Savich, 1911)
Buellia schaereri De Not. (Golubkov, 2007)
Calicium abietinum Pers. (Golubkov, 1992)
Calicium adspersum Pers. (Golubkov, 1992)
**Calicium glaucellum* Ach.
Calicium lenticulare Ach. (Golubkov, 1992)
Calicium salicinum Pers. (Golubkov, 1992)
Calicium trabinellum (Ach.) Ach. (Golubkov, 1992)
Calicium viride Pers. (Golubkov, 1992)
Caloplaca cerina (Ehrh. ex Hedw.) Th. Fr. var. *cerina*
**Caloplaca citrina* (Hoffm.) Th. Fr.
Caloplaca decipiens (Arnold) Blomb. et Forssell
Caloplaca ferruginea (Huds.) Th. Fr. (Golubkov, 2007)
Caloplaca flavocitrina (Nyl.) H. Olivier
Caloplaca flavovirescens (Wulfen) Dalla Torre et Sarnth.
Caloplaca holocarpa (Hoffm. ex Ach.) A. E. Wade
Caloplaca pyracea (Ach.) Th. Fr. (Savich, 1909)
Caloplaca saxicola (Hoffm.) Nordin
Candelaria pacifica M. Westb. et Arup
Candelariella aurella (Hoffm.) Zahlbr.
Candelariella vitellina (Hoffm.) Müll. Arg.
Candelariella xanthostigma (Ach.) Lettau
Catillaria nigroclavata (Nyl.) Schuler
Catinaria atropurpurea (Schaer.) Vězda et Poelt (Savich, 1911)
Cetraria ericetorum Opiz
Cetraria islandica (L.) Ach.
Cetrelia olivetorum s. l.
Chaenotheca chlorella (Ach.) Müll. Arg. (Golubkov, 1992)
Chaenotheca chrysocephala (Ach.) Th. Fr. (Golubkov, 1992)
Chaenotheca ferruginea (Turner ex Sm.) Mig.
Chaenotheca phaeocephala (Turner) Th. Fr. (Golubkov, 1992)
Chaenotheca stemonea (Ach.) Müll. Arg.
Chaenotheca trichialis (Ach.) Th. Fr.
Chrysothrix candelaris (L.) J. R. Laundon (Ges', 1960)

Cladonia arbuscula (Wallr.) Flot.; ssp. *mitis* (Sandst.) Ruoss
Cladonia bacilliformis (Nyl.) Glück (Golubkov, 1992)
Cladonia botrytes (Hag.) Willd.
Cladonia cariosa (Ach.) Spreng. (Golubkov, 2007)
Cladonia carneola (Fr.) Fr.
Cladonia cenotea (Ach.) Schaer.
Cladonia cervicornis (Ach.) Flot. ssp. *verticillata* (Hoffm.) Ahti
Cladonia chlorophaea s. l.
Cladonia ciliata (Flörke) Stirt. var. *tenuis* (Flörke) Ahti
Cladonia coccifera (L.) Willd. (Savich, 1911)
Cladonia coniocraea (Flörke) Spreng.
Cladonia cornuta (L.) Hoffm.
Cladonia crispata (Ach.) Flot.
Cladonia deformis (L.) Hoffm.
Cladonia digitata (L.) Hoffm.
Cladonia fimbriata (L.) Fr.
Cladonia floerkeana (Fr.) Flörke (Vysotskij et al., 1925)
Cladonia furcata (Huds.) Schrad. ssp. *furcata*; ssp. *subrangiformis* (Scriba ex Sandst.) Pišút
Cladonia glauca Flörke (Golubkov, 1992)
Cladonia gracilis (L.) Willd. ssp. *gracilis*
Cladonia incrassata Flörke
Cladonia macilenta Hoffm.; var. *bacillaris* (Genth) Schaer.
Cladonia ochrochlora Flörke
Cladonia parasitica (Hoffm.) Hoffm. (Golubkov, 1992)
Cladonia phyllophora Hoffm.
Cladonia pleurota (Flörke) Schaer. (Gorbach, 1973)
Cladonia pyxidata (L.) Hoffm.
Cladonia ramulosa (With.) J. R. Laundon (Lyubitskaya, 1914)
Cladonia rangiferina (L.) Wigg.
Cladonia rangiformis Hoffm. (Gorbach, 1973)
Cladonia rei Schaer.
Cladonia scabriuscula (Delise) Nyl. (Golubkov, 1992)
Cladonia squamosa Hoffm.
Cladonia stellaris (Opiz) Pouzar et Vězda (Golubkov, 2007)
Cladonia subulata (L.) Wigg.
Cladonia turgida (Ehrh.) Hoffm.
Cladonia uncialis (L.) Wigg.
* *Clypeococcum hypocenomycis* D. Hawksw.
Coenogonium pineti (Ach.) Lücking et Lumbsch
Collema limosum (Ach.) Ach. (Golubkov, 2007)
Cyphelium notarisii (Tul.) Blomb. et Forssel
Cyphelium tigilare (Ach.) Ach. (Vysotskij et al., 1925)
Dermatocarpon miniatum (L.) W. Mann. (Gorbach, 1973)
Dibaeis baeomyces (L. f.) Rambold et Hertel (Savich, 1910)
Diploschistes muscorum (Scop.) R. Sant.
Diploschistes scruposus (Schreb.) Norman (Savich, 1911)
Evernia divaricata (L.) Ach. (Golubkov, 1992)
Evernia mesomorpha Nyl.
Evernia prunastri (L.) Ach.
Flavoparmelia caperata (L.) Hale
Graphis scripta (L.) Ach.
Hypocenomyce scalaris (Ach. ex Lilj.) M. Choisy
Hypogymnia physodes (L.) Nyl.
Hypogymnia tubulosa (Schaer.) Hav.
Hypotrachyna revoluta (Flörke) Hale (Golubkov, 2007)
Icmadophila ericetorum (L.) Zahlbr. (Golubkov, 1992)
Imshaugia aleurites (Ach.) S. F. Meyer
Lecania cyrtella (Ach.) Th. Fr.
Lecania dubitans (Nyl.) A. L. Sm. (Savich, 1911)
Lecania koerberiana Lahm (Savich, 1911)
Lecania naegelii (Hepp) Diederich et van den Boom (Savich, 1910)
Lecanora albella (Pers.) Ach. (Savich, 1911)
Lecanora albellula Nyl.
Lecanora allophana Nyl.
Lecanora argentata (Ach.) Malme
Lecanora carpinea (L.) Vain.
Lecanora chlarotera Nyl. (Gorbach, 1973)
Lecanora conizaeoides Nyl. ex Crombie
Lecanora crenulata Hook.
Lecanora dispersa (Pers.) Sommerf.
Lecanora expallens Ach. (Golubkov, 1992)
Lecanora glabrata (Ach.) Malme (Vysotskij et al., 1925)
Lecanora hagenii (Ach.) Ach.
Lecanora muralis (Schreb.) Rabenh. var. *muralis*
Lecanora populicola (DC.) Duby
Lecanora pulicaris (Pers.) Ach.
Lecanora strobilina (Spreng.) Kieff. (Kravchuk, 2001)
Lecanora subrugosa Nyl. (Gorbach, 1973)
Lecanora symmicta (Ach.) Ach.
Lecanora thysanophora R. C. Harris (Golubkov, 2007)
Lecanora varia (Hoffm.) Ach.
Lecidella anomaloides (A. Massal.) Hertel et H. Kilias (Golubkov, 2007)
Lecidella elaeochroma (Ach.) M. Choisy
Lecidella euphorea (Flörke) Hertel
**Lepraria elobata* Tønsberg
Lepraria incana (L.) Ach.
**Lepraria jackii* Tønsberg
Leptogium gelatinosum (With.) J. R. Laundon (Golubkov, 1992)

Leptogium rivulare (Ach.) Mont. (Golubkov, 1992)
Leptogium subtile (Schrad.) Torss. (Golubkov, 1992)
Leptorhaphis epidermidis (Ach.) Th. Fr. (Savich, 1911)
Lobaria pulmonaria (L.) Hoffm.
Lobaria scrobiculata (Scop.) DC. (Golubkov, 1992)
Melanelixia fuliginosa (Fr. ex Duby) O. Blanco et al. (Vysotskij et al., 1925)
Melanelixia glabra (Schaer.) O. Blanco et al.
Melanelixia glabratula (Lamy) Sandler et Arup
Melanelixia subargentifera (Nyl.) O. Blanco et al.
Melanelixia subaurifera (Nyl.) O. Blanco et al.
Melanohalea exasperata (De Not.) O. Blanco et al.
Melanohalea exasperatula (Nyl.) O. Blanco et al.
Melanohalea olivacea (L.) O. Blanco et al.
Melaspilea gibberulosa (Ach.) Zwackh
Menegazzia terebrata (Hoffm.) A. Massal. (Vysotskij et al., 1925)
**Micarea prasina* Fr.
Micarea tuberculata (Sommerf.) R. A. Anderson (Savich, 1911)
Ochrolechia arborea (Kreyer) Almb. (Lyubitskaya, 1914)
Ochrolechia pallescens (L.) A. Massal. (Savich, 1911)
Ochrolechia parella (L.) A. Massal. (Ges', 1960)
Opegrapha atra Pers.
Opegrapha rufescens Pers.
Opegrapha varia Pers.
Opegrapha viridis (Pers. ex Ach.) Behlen et Desberger
Opegrapha vulgata (Ach.) Ach. (Golubkov, 1992)
Parmelia saxatilis (L.) Ach. (Gorbach, 1973)
Parmelia sulcata Taylor
Parmelina tiliacea (Hoffm.) Hale
Parmeliopsis ambigua Nyl.
Parmeliopsis hyperopta (Ach.) Arnold
Parmotrema chinense (Osbeck) Hale et Ahti (Vysotskij et al., 1925)
Parmotrema stuppeum (Taylor) Hale
Peltigera canina (L.) Willd.
Peltigera didactyla (With.) J. R. Laundon
Peltigera horizontalis (Huds.) Baumg. (Golubkov, 1992)
Peltigera lepidophora (Nyl. ex Vain.) Bitter (Savich, 1910)
Peltigera malacea (Ach.) Funck
Peltigera polydactylon (Necker) Hoffm. (Savich, 1911)
Peltigera praetextata (Florke ex Sommerf.) Zopf
Peltigera rufescens (Weiss) Humb.
Pertusaria albescens (Huds.) M. Choisy et Werner
Pertusaria alpina Hepp ex Ahles (Golubkov, 1992)
Pertusaria amara (Ach.) Nyl.
Pertusaria coccodes (Ach.) Nyl. (Golubkov, 2007)
Pertusaria coronata (Ach.) Th. Fr. (Vysotskij et al., 1925)
Pertusaria leioplaca DC. (Vysotskij et al., 1925)
Pertusaria multipuncta (Turner) Nyl. (Vysotskij et al., 1925)
Pertusaria pertusa (Weigel.) Tuck. (Savich, 1911)
Pertusaria trachythallina Erichsen (Vysotskij et al., 1925)
Petrusaria lactea (L.) Arnold (Vysotskij et al., 1925)
Phaeophyscia ciliata (Hoffm.) Moberg
Phaeophyscia nigricans (Flörke) Moberg
Phaeophyscia orbicularis (Neck.) Moberg
Phlyctis agelaea (Ach.) Flot. (Vysotskij et al., 1925)
Phlyctis argena (Spreng.) Flot.
Physcia adscendens (Fr.) H. Olivier
Physcia aipolia (Ehrh. ex Humb.) Fürnr.
Physcia caesia (Hoffm.) Fürnr.
Physcia dubia (Hoffm.) Lettau
Physcia stellaris (Ach.) Nyl.
Physcia tenella Bitter
Physcia tribacia (Ach.) Nyl.
Physconia detersa (Nyl.) Poelt
Physconia distorta (With.) J. R. Laundon
Physconia entheroxantha (Nyl.) Poelt
Physconia grisea (Lam.) Poelt
Physconia leucoleiptes (Tuck.) Essl. (Vysotskij et al., 1925)
Physconia perisidiosa (Erichsen) Moberg
Placynthiella uliginosa (Schrad.) Coppins et P. James (Vysotskij et al., 1925)
Platismatia glauca (L.) W. L. Culb. et C. F. Culb.
Pleurosticta acetabulum (Neck.) Elix et Lumbsch
Porpidia crustulata (Ach.) Hertel et Knoph (Savich, 1911)
Pseudevernia furfuracea (L.) Zopf
Punctelia subrudecta (Nyl.) Krog (Golubkov, 1992)
Pycnothelia papillaria Dufour (Golubkov, 1992)
Pyrenula nitida (Weigel) Ach. (Vysotskij et al., 1925)
Pyrenula nitidella (Flörke ex Schaer.) Müll. Arg.
Ramalina baltica Lettau
Ramalina calicaris (L.) Fr. (Vysotskij et al., 1925)
Ramalina dilacerata (Hoffm.) Hoffm. (Lyubitskaya, 1914)
Ramalina farinacea (L.) Ach.
Ramalina fastigiata (Pers.) Ach. (Golubkov, 1992)
Ramalina fraxinea (L.) Ach.
Ramalina obtusata (Arnold) Bitter (Golubkov, 2007)
Ramalina pollinaria (Westr.) Ach.
Ramalina thrausta (Ach.) Nyl. (Golubkov, 1992)
Rhizocarpon lavatum (Fr.) Hazsl. (Lyubitskaya, 1914)
Rinodina exigua (Ach.) Gray. (Savich, 1909)
Rinodina polyspora Th. Fr. (Savich, 1909)

Rinodina sophodes (Ach.) A. Massal. (Savich, 1909)
Scoliciosporum chlorococcum (Stenh.) Vězda (Kravchuk, 2001)
Stereocaulon condensatum Hoffm. (Ges', 1960)
Stereocaulon paschale (L.) Hoffm. (Gorbach, 1973)
Stereocaulon tomentosum Fr. (Savich, 1911)
Tephromela atra (Huds.) Hafellner (Golubkov, 1992)
Thelotrema lepadinum (Ach.) Ach. (Golubkov, 1992)
Trapelia coarctata (Turner ex Sm. et Sow.) M. Choisy
Trapeliopsis granulosa (Hoffm.) Lumbsch (Vysotskij et al., 1925)
Tuckermannopsis chlorophylla (Willd.) Hale
Tuckermannopsis sepincola (Ehrh.) Hale
Usnea barbata (L.) Web. (Lyubitskaya, 1914)
Usnea filipendula Stirt. (Ges', 1960)
Usnea florida (L.) F. H. Wigg. (Gorbach, 1973)
Usnea hirta (L.) F. H. Wigg.
Usnea subfloridana Stirt.
Verrucaria fusca Pers. (Gorbach, 1973)
**Verrucaria muralis* Ach.
Vulpicida pinastri (Scop.) J.-E. Mattsson et M. J. Lai
Xanthomendoza fallax (Hepp ex Arnold) Søchting, Kärnefelt et S. Y. Kondr.
Xanthomendoza fulva (Hoffm.) Søchting, Kärnefelt et S. Y. Kondr.
Xanthoparmelia conspersa (Ehrh. ex Ach.) Hale
Xanthoparmelia pulla (Ach.) Crespo et al.
Xanthoparmelia verruculifera (Nyl.) O. Blanco et al. (Golubkov, 2007)
Xanthoria candelaria (L.) Th. Fr.
Xanthoria elegans (Link.) Th. Fr.
Xanthoria parietina (L.) Th. Fr.
Xanthoria polycarpa (Hoffm.) Th. Fr. ex Rieber
Xylographa parallela (Ach. : Fr.) Behlen et Desberger (Golubkov, 1992)

As the lichens were not tested by TLC, *Cetraria cetrarioides* and *C. olivetorum* were treated as *C. olivetorum* s. l. *Cladonia chlorophaea* and *C. grayi* were also treated as *C. chlorophaea* s. l. in this paper.

The material from Gomel region under the name of *Candelaria concolor*, which is deposited at the Belarusian Polesye Scientific Herbarium of F. Skorina Gomel State University, and has been published earlier, in reality belongs to *C. pacifica* (Westberg & Arup, 2010).

DISCUSSION

A total of 32 species, one subspecies of lichens and two lichenicolous fungi have been first published as new to Gomel region in our previous papers (Tsurykau, 2005; Tsurykau & Khramchankova, 2007, 2009; Tsurykau & Kondratyuk, 2011). *Acarospora moenium* is a new lichen species to Belarus. It was found on exposed concrete embankment of the river Sozh in the city of Gomel on 13 March 2007 (leg. Andrei Tsurykau). Thallus consisted of dispersed white pruinose squamules about of 0.5 mm in size, bearing black granular soredia on the lower side. All specimens were sterile. Chemical tests (K, Pd) were negative. This is a common species, widely distributed in Europe and North America. It is known in all countries neighbouring to Belarus. This species is probably not rare in Belarus, but investigators normally overlook it.

A total of 14 species from the list are included in the Red Data Book of the Republic of Belarus. Of these, *Peltigera horizontalis* and *Usnea florida* are known only from historical data. These two species have not been found since 1970. Most of the other species are known from Pripyatsky National Park (*Calicium adspersum*, *Evernia divaricata*, *Leptogium subtile*, *Lobaria pulmonaria*, *Menegazzia terebrata*, *Parmeliopsis hyperopta* and *Ramalina thrausta*) and the Mozyr Ravines Reserve (*Punctelia subrudecta*). *Hypotrachyna revoluta* and *Parmotrema stuppeum* are known from both the above-mentioned protected areas. *Chaenotheca chlorella* and *Cetrelia olivetorum* are known from Pripyatsky National Park and the territory outside the protected areas in Narovlia and Gomel districts (Khoružik, 2005).

Lobaria scrobiculata and *Parmotrema chinense* are known only from old reports of the beginning of the 20th century. It is likely that they have entirely disappeared from the territory of Belarus. *Physconia leucoleiptes* [*Physcia leucoleiptes* (Vysotskij et al., 1925)] needs to be excluded from the species lists, as it does not occur in Europe (probably it is a misidentification of *Physconia detersa*). *Bryoria chalybeiformis* seems to be doubtful to the territory, because the specimens of *B. chalybeiformis* [*Bryopogon chalybeiforme* (Savich, 1910)] in historical collections belong to *B. implexa*, while the specimens of *B. implexa* [*Bryopogon implexum* (Savich, 1910), *Alectoria implexa* (Ges', 1960)] belong to *B. capillaris*.

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GOMELIO REGIONO KERPĖS – PIRMINIS SĄRAŠAS

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Santrauka

Straipsnyje pateikiamas Gomelio regiono (Baltarusija) kerpių ir lichenofilinių grybų sąrašas – 267 rūšys ir du porūšiai. Iš jų septynių rūšių kerpės ir dviejų rūšių lichenofiliniai grybai regione užregistruoti pirmą kartą. *Acarospora moenium* Baltarusijoje aptikta pirmą kartą. 14 sąraše esančių rūšių įtrauktos į šalies nykstančių rūšių sąrašą.