

A Provisional Checklist of the Lichens of Belarus

ANDREI TSURYKAU¹

ABSTRACT. – A total of 606 species and five subspecific taxa of lichens and allied fungi are documented from Belarus based on combined historical (pre-1980) and modern (post-1980) records. Of these, 50 (8.3%) are represented by only historical reports, 235 (38.8%) are represented by only modern vouchers, and 310 (51.2%) are represented by both historical and modern records. Eleven species are known only from generalized published reports that lacked specific location data. Eighty-eight species are excluded as erroneous reports, or considered as doubtful records.

KEYWORDS. – Biodiversity, distribution, lichenized fungi, historical baseline.

INTRODUCTION

Published accounts of the lichens of Belarus date to the end of the 18th century (Gilibert 1781). In the first phase of lichenological discovery in the country (1780–1900) lichens did not attract special attention and were reported among the general lists of vascular plants and fungi. However, 49 species were reported by the French botanist J.E. Gilibert, the Russian ethnographer of Belarusian origin N. Downar (Dovnar-Zapol'skiy) and Polish botanists K. Filipowicz and F. Błoński (Błoński 1888, 1889; Downar 1861; Filipowicz 1881; Gilibert 1781, 1792).

In the early 20th century (1900–1925), there was a second phase of lichenological discovery in Belarus. During that time, Belarusian pioneer lichenologist V.P. Savicz and his wife L.I. Ljubitzkaja (later Savicz-Ljubitzkaja) reported 91 species new to the country (Ljubitzkaja 1914; Savicz 1909, 1910, 1911, 1925; Savicz & Savicz 1924; Wyssotzky et al. 1925). Their collections are housed in LE. Other lichenologists visited the territory that constitutes modern Belarus between 1910 and 1925. These included G.K. Kreyer, E. Bachmann, F. Bachmann, F. von Tessoroff, and A.N. Oksner who published several contributions (Bachmann & Bachmann 1920; Kreyer 1913, 1914; Oksner 1924, 1925; Tessoroff 1922). An important study of this second period that of Bachmann and Bachmann (1920), who made collections on the battlefield during the World War I. In total, 260 lichens new to Belarus were reported over this 25-year period, increasing the known total to 309 species at that time.

A third phase, corresponding to the period 1926–2005, included the publication of many studies focused on forest and urban lichen ecology as well as environmental lichen monitoring. This work was carried out by more than a dozen lichenologists in Belarus (e.g. Boiko et al. 1981; Busko et al. 1995; Ges 1960; Golubkov 1987, 1992, 1993; Golubkov & Kobzar 2005; Golubkov & Vynaev 1981; Gorbach 1955, 1957, 1965d, 1970; Gorbach & Getko 1978; Insarov & Pchelkin 1982; Kiselev et al. 1983, 1986; Kobzar 1997; Kravchuk 2000, 2001; Kravchuk & Kakareka 1995, 1998; Krawiec 1938; Makarevicz 1960; Tomin 1937, 1939, 1956; Tsetterman 1948, 1973b, 1981), including M.P. Tomin, N.V. Gorbach, N.N. Kobzar and V.V. Golubkov. Golubkov in particular, drew attention to conservation biology by studying the lichens of protected areas and by including threatened species in the second and third editions of the Red Data Books of Belarus (Darafeeu 1993; Golubkov 2002, 2014d; Golubkov & Kobzar 2005).

The current phase of lichenology in Belarus began in 2006, when the present author, together with P. Bely and A. Yatsyna began their careers in lichenology. This phase has been marked by chemical analysis such as thin layer chromatography, as well as collaboration with foreign mycologists and lichenologists. As a result, approximately 150 lichens new to the country have been reported during last decade, mainly by these workers and V.V. Golubkov (e.g. Bely 2011a; Golubkov & Kukwa 2006;

¹ANDREI TSURYKAU – Department of Biology, F. Skorina Gomel State University, Sovetskaja str. 104, Gomel, 246019, Belarus – e-mail: tsurykau@gmail.com

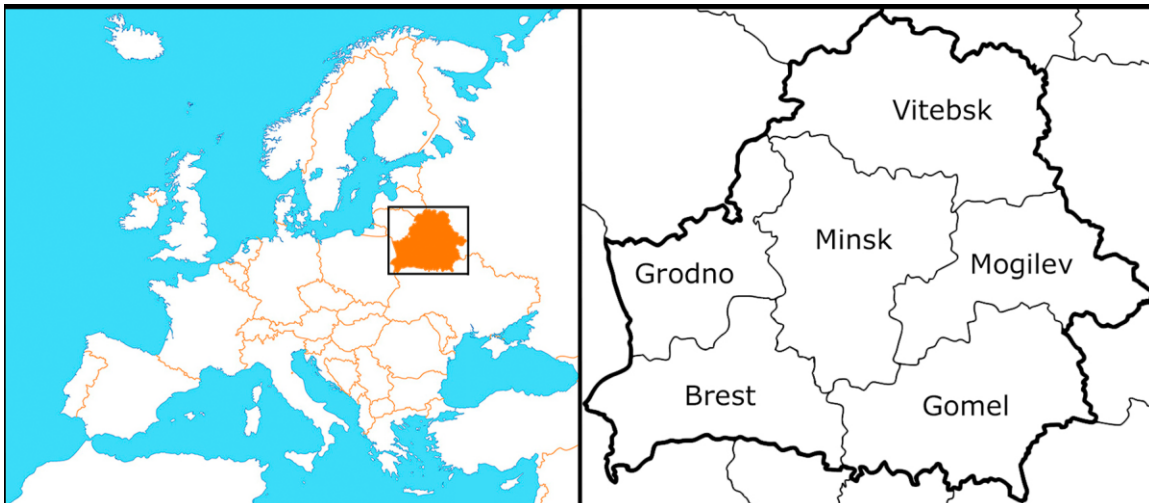


Figure 1. The study area (Belarus) within the context of Europe (left) and a map of the administrative divisions of the country (right).

Tsurykau & Golubkov 2015; Tsurykau et al. 2014a, 2016a, 2017c; Yatsyna 2011e, 2012d, 2013f, 2014a, 2015d, Yatsyna & Motiejūnaite 2015). Furthermore, special attention was also focused on lichenicolous fungi, whose known biodiversity in Belarus has increased rapidly from 21 species in 2011 to 66 species in 2017 (Tsurykau 2017a).

As is the case with many regions worldwide, the Belarusian lichen biota remains little investigated despite a long history of research. Two lists devoted to the lichens of Belarus were published recently, when Yurchenko (2011) and Yatsyna and Merzhvinsky (2012) independently reported 549 species each. However, these contributions listed different species and were mainly summaries of Latin names that had been reported from the country in earlier publications. Furthermore, those authors did not critically reexamine the supporting vouchers and published descriptions associated with the reports, rather applying nomenclatural updates using Index Fungorum. Given the major changes to lichen taxonomy and species delimitation that have occurred since many historical reports were published, such nomenclatural updates led to several erroneous reports (see doubtful and excluded species). Presently there is no comprehensive checklist of lichens from Belarus that both incorporates all the available published data and attempts to summarize the modern diversity, distribution and substrate preferences of the taxa in the region. The present contribution aims to fill this gap.

MATERIALS AND METHODS

The Study Area. – Belarus is an Eastern European country (207600 km²), located within 51–56°N and 23–33°E. The country borders Latvia, Lithuania, Poland, Russia and Ukraine (Figure 1). The main part of the area comprises flat lowland terrain. The central part has rugged relief (Minsk Upland) with the highest point reaching 345 meters (Dementiev et al. 1977). The climate of Belarus is moderately continental. Average temperatures in July vary from +17°C in the north to +18°C in the south, in January from –4.5°C in south-western part to –8°C in the northeast. The annual mean precipitation is 600–700 mm (Loginov 1996).

As has been summarized by Yurkevich et al. (1979) and Zeliankevich et al. (2016), natural vegetation covers more than 64% of the total land area and is represented by forests (39.5%), meadows (14.6%), bogs (7.1%) and shrubs (3%). Forest stands are mainly dominated by *Pinus sylvestris* (50.3% of the forested area; Figure 2) together with several other tree species such as *Betula pendula* (23.2%; Figure 3), *Picea abies* (9.2%; Figure 4), *Alnus glutinosa* (8.5%; Figure 5), *Quercus robur* (3.4%; Figure 5) and *Populus tremula* (2.1%). Other tree species dominate in 3.3% of forests in Belarus.

The territory of Belarus straddles the border of two major physiographic regions, namely Eurasian coniferous (taiga) and European broadleaved forests. Therefore, the forests are heterogenous in the country. Southern Belarus is outside the natural range of *Picea abies* and dominated by *Pinus sylvestris* and *Quercus robur*. Northern Belarus is covered by taiga forests (Yurkevich et al. 1979).



Figure 2. Middle aged Scots pine forest, the main type of woodland in Belarus (top) and *Cladonia* dominated sandy soil in pine forest in southeastern Belarus (bottom).



Figure 3. Silver birch forest, the secondmost dominant forest type in Belarus (top) and mixed broadleaved-coniferous forest, a common vegetation type in Belarus (bottom).



Figure 4. Norway spruce forest, an example of an important vegetation type in Belarus.



Figure 5. Black alder woodland in Belowiezha National Park (top) and Pedunculate oak stand in southern Belarus (bottom).

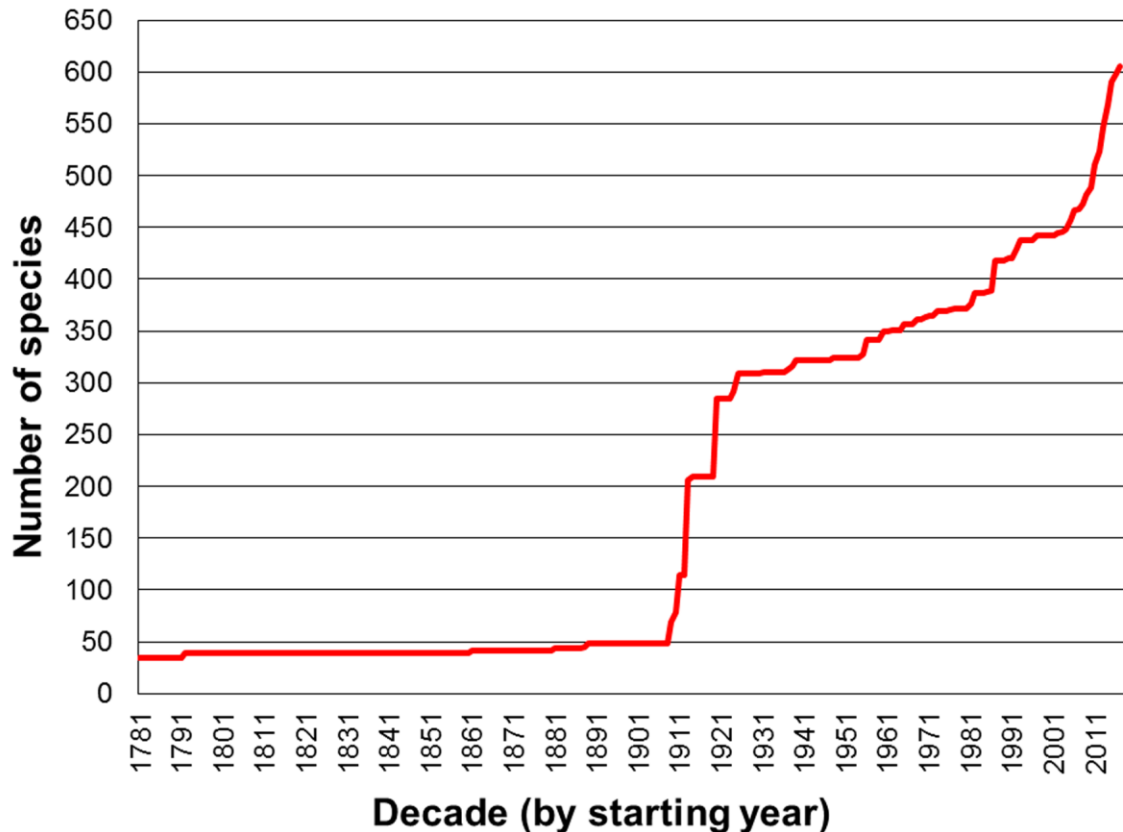


Figure 6. Accumulation of lichen species known from Belarus since the initiation of lichenological studies in the country (species count based on reports that were updated to follow modern taxon delimitations).

There are several kinds of protected areas: 2 nature reserves, 4 national parks, 373 wildlife sanctuaries of state (98) and local (275) significance, and 887 monuments of nature of state (319) and local significance (568). In total, protected areas encompass 8.8% of the territory of Belarus (Medvedeva 2016).

Compilation of the Checklist. – For the checklist, all geographically relevant publications were analysed. Only original reports were added to the checklist, and therefore every lichen record in each paper was critically examined by searching the references to determine whether it was an original report or a citation of previously published data. The latter were excluded from the checklist because they repeat information that had already been published earlier. In a small number of cases where questions arose during the process, the authors were personally contacted. To clarify the status of some doubtful records, curators at H and LE were contacted to check the availability and/or identity of supporting vouchers.

Ecology and distributional data for two lichen species (*Arctoparmelia centrifuga* and *Hazslinszkyia gibberulosa*) were not provided in the original reports, but are included here based on information associated with the vouchers at GSU. In several cases, while the original published report did not provide specific substrate or geographical provenance data, these data were taken from subsequent publications that elaborated on the original reports. Specifically, Golubkov and Shukanov (1983) and Golubkov (1992) supplemented Golubkov & Vynaev (1981), Golubkov (1993, 2011) supplemented Golubkov (1992), Yurchenko (2011) supplemented Golubkov (1996) and Golubkov and Kobzar (2005), Tsuryskau and Khranchankova (2011b) supplemented Tsuryskau and Khranchankova (2008), and Gapienko et al. (2014) supplemented Yatsyna (2011e). Since the substrate preferences cited by Gorbach (1973b) can refer to other countries (e.g. Oksner 1956, 1968) they were not included in the present list.

Historical reports that included descriptions were critically examined to confirm that the reports likely corresponded to a given modern species concept (i.e., in such cases the citation of a report in the checklist implies that the report was likely correct and its inclusion is not exclusively based on a

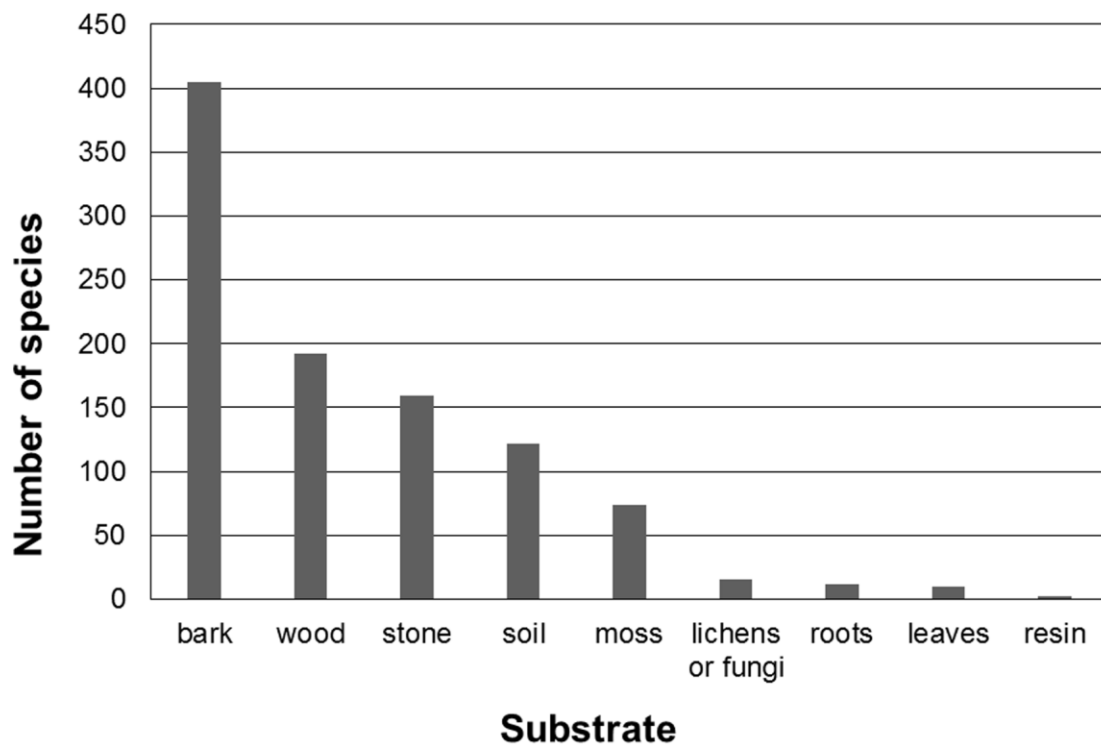


Figure 7. Total number of lichen species known from major substrate classes in Belarus.

nomenclatural update of the original name). All doubtful reports are discussed in the list, and the majority are explicitly excluded pending further study.

RESULTS AND DISCUSSION

The list of Belarusian lichens presented here includes 606 species and five subspecific taxa. Eighty-eight species are excluded as erroneous reports or treated as doubtful records. Of the species accepted as occurring in the region, 235 (38.8%) are represented by only modern (post-1980) vouchers (Figure 6), 50 (8.3%) species are represented by only historical (pre-1980) reports, and 28 (4.6%) of the latter were reported prior to, or at the beginning, of the 20th century. In other words, there are 28 taxa that appear not to have been documented from Belarus in nearly a century or more (Appendix I). Efforts to relocate extant populations of lichens known only from historical reports should prioritize these species. There are three additional species that were reported in the 1930's: *Collema nigrescens* (Krawiec 1938), *Nephromopsis ciliaris* (Tomin 1937) and *Usnea glabrata* (Yurchenko 2011). The last was reported based on herbarium specimen collected in 1939. Most species reported based on historical collections that have not been relocated in modern times are considered regionally extinct (RE). However, some other species that were formerly considered RE have been relocated in Belarus recently. These are *Heterodermia speciosa*, *Lecidea turgidula*, *Leptogium saturninum*, *Leptorhaphis atomaria*, *Mycomicrothelia melanospora*, *Ochrolechia microstictoides*, *Rinodina oxydata* and *Rinodina teichophila* (Bely & Golubkov 2009b, Yatsyna 2011a, 2011e, 2013a, 2015d, 2016c, 2017, Tsuryskau 2017c). Thus, an absence of known modern occurrences does not *a priori* indicate that a given species is regionally extinct.

Of the species reported from Belarus, there are 11 that were reported from the region generally and without the citation of collection data for the supporting vouchers. These species are: *Diplotomma epipolium*, *Peltigera leucophlebia*, *Physcia clementei*, *Physconia muscigena*, *Polycauliona phlogina*, *Porpidia cinereoatra*, *Pyrenula coryli*, *Rinodina gennarii*, *Thelocarpon impressellum*, *Thrombium epigaeum*, *Variospora aurantia* (Golubkov & Yesis 1997b, Golubkov & Kobzar 2005, Kobzar 2006, Kondratyuk et al. 2004, Yurchenko 2011, Yatsyna & Merzhvinsky 2012). In addition to the above, there are several species that were published without specific location data. While these are included in the

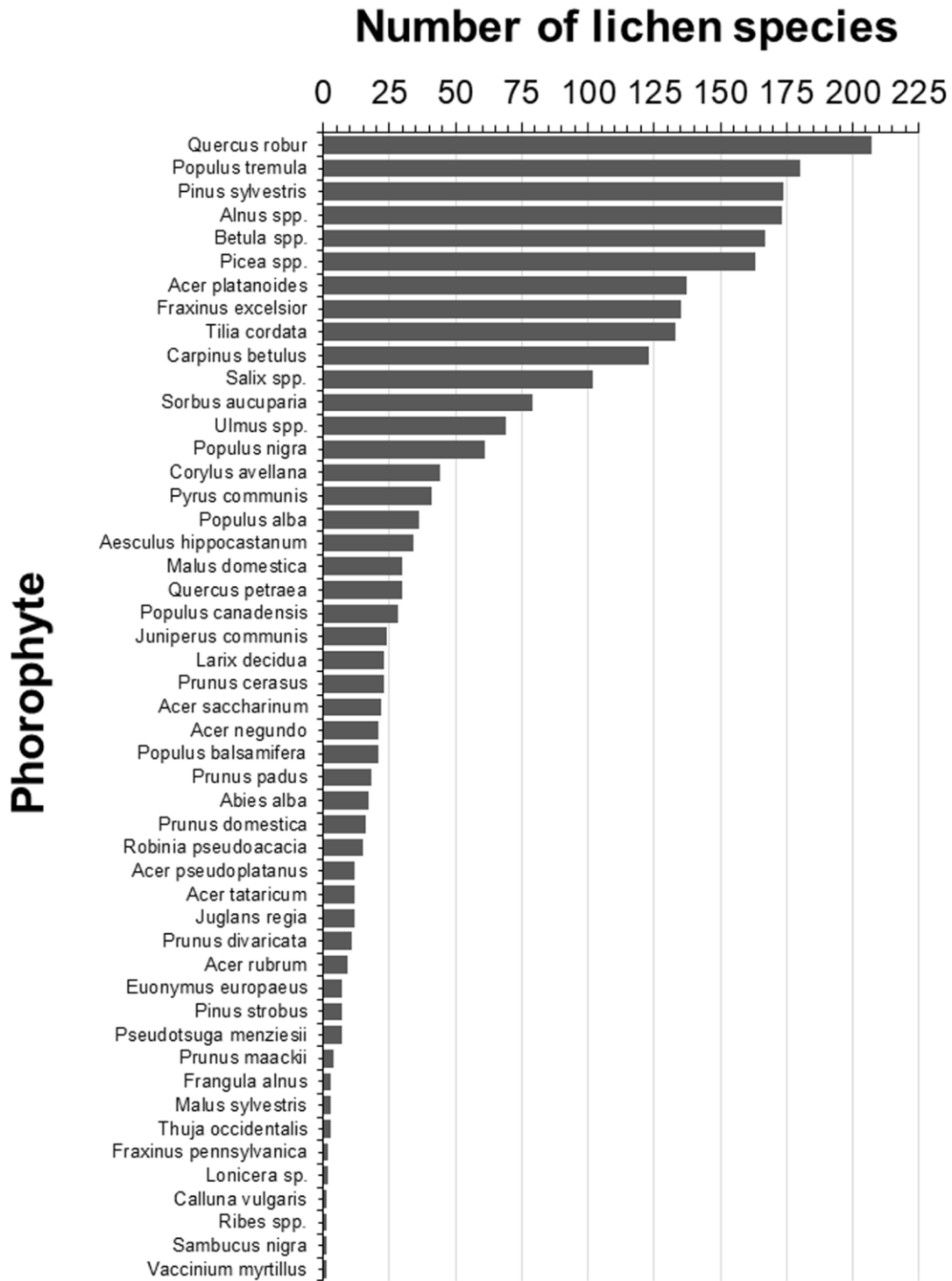


Figure 8. Total number of lichen species reported from each corticolous lichen substrate in Belarus.

checklist, further study is needed to confirm their occurrence and locate supporting vouchers. These include: *Arthonia incarnata*, *Bacidia incompta*, *Physconia muscigena*, *Polycauliona phlogina* and *Nephromopsis ciliaris* (Kondratyuk et al. 2004; Oksner 1968; Tomin 1937, 1956; Yatsyna & Merzhvinsky 2012). Until now, the occurrence of *Arctoparmelia centrifuga* has been unknown as no data were provided by Gorbach (1965d). The collection locality and substrate are provided here based on the specimen stored in GSU.

Approximately one-third of the species (169, 27.9%) reported from Belarus occur in all of the major political subdivisions of the country. Such relatively ubiquitous lichens include *Evernia prunastri*, *Hypogymnia physodes*, *Parmelia sulcata* and *Xanthoria parietina*. Interestingly, however, some of these also represent species treated as rare in the latest edition of the Red Data Book (Yatsyna 2015), namely *Cetrelia olivetorum*, *Lobaria pulmonaria*, *Menegazzia terebrata*, *Montanelia sorediata* and *Usnea florida*. At least one additional widespread species, *Cetrelia monachorum*, has been recommended for protection by Bely et al. (2014). In contrast to the widespread species, approximately one-fourth of the species (149, 24.6%) have only been documented from a single region of the country. This includes species that have likely been extirpated and are known only from historical reports (e.g. *Nephroma arcticum*, *N. bellum*, *N. parile* and *N. resupinatum*). It also includes relatively recently described species that are likely more widespread, but have not been the subject of targeted search efforts in the field and herbarium (e.g. *Biatora efflorescens*, *Catillaria croatica*, *Fuscidea arboricola*, *F. pusilla* and *Lecanora compallens*).

In terms of substrates, most species (406, 66.8%; Figure 7) are corticolous, while only approximately one-fourth (160, 26.2%) are saxicolous. Among the substrates for corticolous lichens, the richest lichen diversity in Belarus is found on *Quercus robur* (207 species), *Populus tremula* (180), *Pinus sylvestris* (174), *Alnus* spp. (173), *Betula* spp. (167) and *Picea* spp. (163) (Figure 8).

THE CHECKLIST

The checklist presented below is based on a compilation of published literature from which all records derived from the territory that is now Belarus published between 1781 and 2017 were indexed. These publications are individually cited throughout the list under the currently accepted name for each taxon. It should be noted that the publications cited under each entry are restricted to those that presented new records. In contrast, publications that referenced earlier reports are not included in the species entries. Each section of the checklist is arranged alphabetically by genus and species, and the checklist itself is divided into three sections: **i)** accepted taxa, **ii)** excluded taxa and taxa whose occurrence in the region is questionable, and **iii)** indexed synonyms that link earlier published reports to currently accepted names. Nomenclature follows Nordin et al. (2011) unless otherwise noted.

Allied fungi related to lichens or to lichenicolous fungi are denoted by an addition sign (+), and species of varying and/or uncertain biological status are denoted by a pound sign (#). Lichenicolous fungi are, as a general rule, not included here as an annotated checklist has already been published separately (Tsurukau 2017a). However, the genus *Chaenothecopsis* which includes some lichenicolous species, is included in the present work. Any lichenicolous fungi included in the present list as denoted by an asterisk (*).

Geographic Abbreviations. – Within the entry for each taxon, published reports are organized by administrative regions and arranged alphabetically. Administrative regions are abbreviated as follows: **BR** = Brest, **GO** = Gomel, **GR** = Grodno, **MI** = Minsk, **MO** = Mogilev, **VI** = Vitebsk (see Figure 1).

Ecological and Substrate Abbreviations. – Within the entry for each taxon, the range of phorophytes reported for each species is listed following the compiled published reports. The substrates are abbreviated as follows: **cal** = concrete and other anthropogenic calcareous substrata, **cor** = corticolous, **fol** = foliicolous (on needles), **lig** = lignicolous, **res** = resinicolous, **roo** = roots of windthrows, **sil** = siliceous stones, **met** = metal, **mus** = muscicolous (over soil, bark, stone), **ter** = terricolous (including plant debris).

In addition to the aforementioned substrate classes, the corticolous substrates are further subdivided as follows:

Abi = <i>Abies alba</i>	Jug = <i>Juglans regia</i>	Pot = <i>Populus tremula</i>
Acd = <i>Acer pseudoplatanus</i>	Jun = <i>Juniperus communis</i>	Ppa = <i>Prunus padus</i>
Acn = <i>Acer negundo</i>	Lar = <i>Larix decidua</i>	Pse = <i>Pseudotsuga menziesii</i>
Acp = <i>Acer platanoides</i>	Lon = <i>Lonicera</i> sp.	Pyr = <i>Pyrus communis</i>
Acr = <i>Acer rubrum</i>	Mal = <i>Malus domestica</i>	Qup = <i>Quercus petraea</i>
Acs = <i>Acer saccharinum</i>	Mas = <i>Malus sylvestris</i>	Qur = <i>Quercus robur</i>
Act = <i>Acer tataricum</i>	Pce = <i>Prunus cerasus</i>	Rib = <i>Ribes</i> spp.
Ahi = <i>Aesculus hippocastanum</i>	Pdi = <i>Prunus divaricata</i>	Rob = <i>Robinia pseudoacacia</i>
Aln = <i>Alnus</i> spp.	Pdo = <i>Prunus domestica</i>	Sal = <i>Salix</i> spp.
Bet = <i>Betula</i> spp.	Pma = <i>Prunus maackii</i>	Sam = <i>Sambucus nigra</i>
Car = <i>Carpinus betulus</i>	Pic = <i>Picea</i> spp.	Sor = <i>Sorbus aucuparia</i>
Cav = <i>Calluna vulgaris</i>	Pin = <i>Pinus sylvestris</i>	Thu = <i>Thuja occidentalis</i>
Coa = <i>Corylus avellana</i>	Pis = <i>Pinus strobus</i>	Til = <i>Tilia cordata</i>
Euo = <i>Euonymus europaeus</i>	Poa = <i>Populus alba</i>	Ulm = <i>Ulmus</i> spp.
Fra = <i>Frangula alnus</i>	Pob = <i>Populus balsamifera</i>	Vac = <i>Vaccinium myrtillus</i>
Fre = <i>Fraxinus excelsior</i>	Poc = <i>Populus canadensis</i>	
Frp = <i>Fraxinus pennsylvanica</i>	Pon = <i>Populus nigra</i>	

1. **Absoconditella lignicola** Vězda & Pišút – BR (Bely 2012a), MI (Yatsyna 2012d), VI (Yatsyna 2013f, 2017): cor, lig Aln, Pin.
2. **Acarospora fuscata** (Schrad.) Arnold – GO (Savicz 1911, Golubkov & Vynaev 1981, Golubkov 2011), GR (Bachmann & Bachmann 1920, Yatsyna 2010g, 2016c), MI (Golubkov & Vynaev 1981, Golubkov 1997, Chernyshov 2003, Yatsyna 2005, 2010a, 2012c, 2013b, 2013c, 2014a, Yurchenko 2011, Yatsyna & Yurchenko 2013), MO (Yatsyna 2009b), VI (Kreyer 1913, Kobzar 1983, Golubkov 1992, 1997, Golubkov & Kobzar 2007, Yatsyna 2010c), no exact locality (Golubkov 1987): sil.
3. **Acarospora moenium** (Vain.) Räsänen – GO (Bely & Golubkov 2008, Golubkov 2011, Tsurykau & Khramchankova 2011a), GR (Bely & Golubkov 2008), VI (Bely & Golubkov 2008, Yatsyna 2013f): cal, sil.
4. **Acarospora oligospora** (Nyl.) Arnold – MI (Golubkov & Yesis 1997b, Chernyshov 2003), VI (Bachmann & Bachmann 1920): sil.
5. **Acarospora veronensis** A. Massal. – GO (Golubkov & Vynaev 1981), GR (Bachmann & Bachmann 1920), MI (Golubkov & Vynaev 1981), VI (Golubkov 1992, Golubkov & Kobzar 2007): sil.
6. **Acrocordia gemmata** (Ach.) A. Massal. – BR (Golubkov 1987, Yatsyna 2014d), GO (Gorbach 1973b, Golubkov 1992, Tsurykau & Khramchankova 2009b), GR (Golubkov 1987, Yatsyna 2016c), MI (Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Yatsyna 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c), MO (Yatsyna 2009b), VI (Golubkov 1992, Yatsyna 2010c, 2011a), no exact locality (Gorbach 1956, 1957, Golubkov 1992): cor, lig Acp, Aln, Car, Fre, Pic, Pon, Pot, Sal, Til, Qur, Ulm.
7. **Agonimia allobata** (Stizenb.) P. James – BR (Yatsyna 2015c), MI (Yatsyna 2014a, 2015c): cor Aln, Fre.
8. **Alyxoria varia** (Pers.) Ertz & Tehler – BR (Golubkov 1987, Yatsyna 2014d), GO (Savicz 1909, Wyssotzky et al. 1925, Golubkov 1992, Golubkov et al. 2007a, Tsurykau & Khramchankova 2009b, Bely 2011a), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2016c), MI (Bachmann & Bachmann 1920, Gorbach 1955, 1961, Golubkov & Yesis 1997a, Kobzar 2006, Yatsyna 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013), MO (Kobzar 2006, Yatsyna 2012a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Yatsyna 2010c, 2017), no exact locality (Tomin 1939, Gorbach 1956, 1957, 1962, 1973b, Golubkov 1992): cor, lig Acn, Acp, Aln, Bet, Car, Fre, Jun, Pot, Sor, Qup, Qur, Til, Ulm.

9. **Amandinea punctata** (Hoffm.) Coppins & Scheid. – BR (Golubkov 1987, Yatsyna 2014d), GO (Savicz 1910, Kreyer 1913, Wyssotzky et al. 1925, Golubkov 1992, 2011, Kravchuk 2000, 2001, Golubkov et al. 2007a, Tsurykau & Khramchankova 2009a, Bely 2011a), GR (Bachmann & Bachmann 1920, Golubkov 1987, Kravchuk 2001, Golubkov & Khartanovich 2004a, 2004b, 2005, Yatsyna 2010g, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov & Yesis 1997a, Kravchuk 2001, Chernyshov 2003, Kobzar 2006, Yatsyna 2009d, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Kravchuk 2001, Yatsyna 2009b), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Kravchuk 2001, Yatsyna 2010c, 2011a, 2017), no exact locality (Gorbach 1956, 1957, Golubkov 1992): cal, cor, lig, sil Abi, Acp, Aln, Bet, Car, Coa, Fre, Lar, Pce, Pic, Pin, Pon, Pot, Ppa, Pyr, Qup, Qur, Sal, Sor, Til, Ulm.
10. **Anaptychia ciliaris** Körb. – BR (Krawiec 1938, Golubkov 1987, Kobzar 2006, Bely 2011a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Ges 1960, Lapitskaya et al. 1979, Golubkov 1992, 2011, Kravchuk 2000, Tsurykau 2005, Timoshenkova & Tsurykau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, Tsurykau et al. 2009, Bely 2010a, 2011a, Yatsyna 2014d, Tsurykau & Tsurikova 2017), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Kravchuk 2001, Golubkov & Khartanovich 2004a, Yatsyna 2010g, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Kravchuk & Kakareka 1995, Kobzar 1997, Chernyshov 2003, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Kobzar 2006, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Downar 1861, Kreyer 1913, Savicz & Savicz 1924, Savicz 1925, Kravchuk 2001, Kobzar 2006, Yatsyna 2009b, 2012a, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Golubkov 1991, Kobzar 2006, Yatsyna 2008, 2010c, 2010d, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957, Yatsyna 2009e): cor Acn, Acp, Aln, Bet, Car, Cav, Euo, Fre, Lar, Pic, Pin, Poa, Poc, Pon, Pot, Qur, Sal, Sor, Til, Ulm.
11. **Anisomeridium polypori** (Ellis & Everh.) M.E. Barr – MI (Yatsyna 2014a, 2015c): cor Aln, Fre.
12. **Arctoparmelia centrifuga** (L.) Hale – VI (Gorbach 1965d): sil. – Note: The distribution and substrate for the species are provided based on the data from GSU.
13. **Arthonia arthonioides** (Ach.) A.L. Sm. – MI (Yatsyna 2014a, 2015c), VI (Yatsyna 2017): cor Acp, Qur.
14. **Arthonia atra** (Pers.) A. Schneid. – GO (Gorbach 1973b, Golubkov & Vynaev 1981, Tsurykau & Khramchankova 2010b), GR (Golubkov 2014a), MI (Bachmann & Bachmann 1920, Golubkov & Vynaev 1981, Yatsyna & Stefanovich 2005, Yatsyna 2012b), VI (Gorbach & Mashenkova 1967), no exact locality (Tomin 1939, Gorbach 1956, 1957): cor Acp, Aln, Car, Fre, Qur.
15. **Arthonia cinereopruinosa** Schaer. – BR (Makarevicz 1960), GR (Golubkov 1992), MI (Yatsyna & Yurchenko 2013, Yatsyna 2014a), MO (Yatsyna 2009b), VI (Yatsyna 2011a), no exact locality (Tomin 1956, Gorbach 1973b): cor Acp, Car, Coa, Qur.
16. **Arthonia dispersa** (Schr.) Nyl. – GO (Tsurykau & Khramchankova 2009b, Golubkov 2011), GR (Bachmann & Bachmann 1920), MI (Kobzar 2006, Yatsyna & Yurchenko 2013, Yatsyna 2013b, 2015c), MO (Yatsyna 2012a), no exact locality (Gorbach 1973b): cor Acp, Car, Coa, Sor, Til, Pot. – Note: The report of *A. dispersa* by Golubkov & Vynaev (1981) seems to be doubtful based on the description and it is not included in the present list.
17. **Arthonia exilis** (Flörke) Anzi – GR (Makarevicz 1960): cor Pic.
18. **Arthonia fuliginosa** (Schaer.) Flot. – GO (Tsurykau & Khramchankova 2009b): cor Fre.
19. **Arthonia incarnata** Th. Fr. ex Almq. – no exact locality (Tomin 1956): cor Qur.

20. **Arthonia patellulata** Nyl. – GR (Bachmann & Bachmann 1920, Makarevicz 1960), no exact locality (Gorbach 1962): cor, lig Pot.
21. **Arthonia punctiformis** Ach. – BR (Golubkov 1987), GO (Savicz 1911), GR (Bachmann & Bachmann 1920, Golubkov 1987), MI (Gorbach 1955, Golubkov & Yesis 1997a), MO (Yatsyna 2009b), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov & Kobzar 2007, Yatsyna 2011a), no exact locality (Gorbach 1956, 1957): cor Aln, Bet, Car, Coa, Pot.
22. **Arthonia radiata** (Pers.) Ach. – BR (Krawiec 1938, Golubkov 1987, 2011, Yatsyna 2014d), GO (Savicz 1910, Golubkov & Vynaev 1981, Golubkov 1992), GR (Bachmann & Bachmann 1920, Golubkov 1987, Yatsyna 2010g), MI (Bachmann & Bachmann 1920, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov 1992, Kravchuk & Kakareka 1995, Yatsyna 2012b, 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013), MO (Kobzar 2006, Yatsyna 2009b), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Yatsyna 2008, 2010c, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957): cor Acp, Aln, Bet, Car, Coa, Fre, Pot, Pyr, Qur, Sal, Sor, Til, Ulm.
23. **Arthonia spadicea** Leight. – BR (Golubkov 1987, Yatsyna 2014d), GO (Golubkov 1992), GR (Bachmann & Bachmann 1920, Makarevicz 1960, Golubkov 1987, 1992, Yatsyna 2016c), MI (Golubkov 1992, Yatsyna 2014a, 2014b, 2015c), VI (Golubkov 1992, Yatsyna 2013f, 2017), no exact locality (Golubkov 1987): cor, lig Aln, Car, Coa, Fre, Pic, Pin, Pot, Qup, Qur, Til.
24. **Arthonia vinosa** Leight. – GR (Yatsyna 2016c): cor Qur.
25. **+Arthopyrenia analepta** (Ach.) A. Massal. – GO (Golubkov 2011), GR (Bachmann & Bachmann 1920): cor Aln, Qur.
26. **Arthopyrenia cerasi** (Schrad.) A. Massal. – GR (Bachmann & Bachmann 1920, Golubkov & Khartanovich 2005), VI (Yatsyna 2011a), no exact locality (Gorbach 1962): cor Coa, Pon, Qur, Til.
27. **Arthopyrenia grisea** (Schleich. ex Schaer.) Körb. – MI (Tomin 1956), VI (Yatsyna 2011a, Gapienko et al. 2014): cor Bet, Jug, Pot.
28. **Arthothelium ruanum** (A. Massal.) Körb. – BR (Golubkov 1987, Yatsyna 2014d), GO (Tsurykau & Khramchankova 2009b, Yatsyna 2012e), GR (Golubkov 1987, Yatsyna 2016c), MI (Golubkov & Vynaev 1981, Golubkov 1992, Yatsyna 2012b, 2012c, 2013b, 2014a, 2015c, 2017), VI (Golubkov 1992, Yatsyna 2010c): cor Aln, Bet, Car, Coa, Pot, Ulm.
29. **Arthrosporium populorum** A. Massal. – GO (Tsurykau & Khramchankova 2009b), GR (Kobzar 2006), MI (Yatsyna & Yurchenko 2013, Yatsyna 2014a), MO (Kreyer 1913), VI (Kreyer 1913): cor Coa, Poa, Pot, Poc, Sal.
30. **Aspicilia cinerea** (L.) Körb. – GO (Gorbach 1973b), GR (Bachmann & Bachmann 1920, Golubkov 1997, Yatsyna 2016c), MI (Oksner 1925, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1992, 1997, Yatsyna 2012c, Yatsyna & Yurchenko 2013), MO (Yatsyna 2009b), VI (Kreyer 1913, Golubkov 1992, 1997, Yatsyna 2010c): sil.
31. **Athallia cerinella** (Nyl.) Arup, Frödén & Søchting – BR (Yatsyna 2014d), GR (Golubkov 1987, Yatsyna 2010g, 2016c), MI (Golubkov & Yesis 1997a, Yatsyna 2010a, 2013b, 2013c, 2014a, 2014b, 2015c, Yurchenko 2011, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Yatsyna 2009b), VI (Golubkov 1992, Yatsyna 2008, 2010c, 2011a, 2017, Bely & Golubkov 2009a), no exact locality (Gorbach 1962): cor, lig Mal, Pot, Til.
32. **Athallia cerinelloides** (Erichsen) Arup, Frödén & Søchting – MI (Bely 2011a): cor Pic.
33. **Athallia pyracea** (Ach.) Arup, Frödén & Søchting s. lat. – BR (Bely 2011a, Bely & Kudin 2016), GO (Savicz 1909, Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Kobzar 2006, Golubkov et al.

2007a, Tsurykau & Khranchankova 2010b, Bely 2010a, 2011a, Golubkov 2011, Sobchanka et al. 2012, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g), MI (Bachmann & Bachmann 1920, Gorbach 1955, Golubkov & Vynaev 1981, Kravchuk & Kakareka 1995, Chernyshov 2003, 2004a, Yatsyna 2005, 2012c, 2014a, 2015c, Kobzar 2006, Yurchenko 2011, Bely 2011a, Bely & Nikolaichuk 2012), MO (Savicz & Savicz 1924, Savicz 1925), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Yatsyna 2010c, Bely 2015b), no exact locality (Gorbach 1956, Makarevich 1960): cal, cor, lig, sil Acp, Aln, Ahi, Bet, Pic, Poa, Pot, Pyr, Sal, Sor, Til, Ulm. – Note: Although the majority of reports of *A. holocarpa* (Hoffm.) Arup, Frödén & Söchting from Belarus likely refer to *A. pyracea*, the supporting specimens should be reexamined to confirm that this is the case. It is possible that some of the reports cited here actually refer to other taxa.

34. **Bacidia arceutina** (Ach.) Arnold – MI (Bely 2011a), VI (Oksner 1968, Yatsyna 2017): cor Pic, Pot.
35. **Bacidia bagliettoana** (A. Massal. & De Not.) Jatta – GO (Savicz 1911, Tsurykau & Khranchankova 2009a), GR (Bely & Golubkov 2008, Yurchenko 2011), MI (Yatsyna 2010a, Golubkov et al. 2013), VI (Bely & Golubkov 2008): mus, ter.
36. **Bacidia biatorina** (Körb.) Vain. – MI (Kobzar 2006, Yatsyna 2013b): cor Pic, Til.
37. **Bacidia circumspecta** (Nyl. ex Vain.) Malme – VI (Kreyer 1913): mus, ter.
38. **Bacidia fraxinea** Lönnr. – GO (Tsurykau 2017c): cor Qur.
39. **Bacidia friesiana** (Hepp) Körb. – MI (Bachmann & Bachmann 1920): cor Pin.
40. **Bacidia herbarum** (Stizenb.) Arnold – GO (Golubkov 2011), VI (Kreyer 1913): cor, lig, mus Pot.
41. **Bacidia igniarii** (Nyl.) Oksner – GO (Savicz 1911): cor Aln.
42. **Bacidia incompta** (Borrer ex Hook.) Anzi – no exact locality (Oksner 1968): not indicated. – Note: The report of this species by Yatsyna (2012b) seems to be erroneous because the species was not also listed in later papers (e.g. Yatsyna 2013b, 2014a).
43. **Bacidia laurocerasi** (Delise ex Duby) Zahlbr. – GO (Tsurykau & Khranchankova 2009b), MI (Gorbach 1965c, Yatsyna 2013b, Yatsyna & Yurchenko 2013), MO (Yatsyna 2009b), VI (Kreyer 1913, Yatsyna 2011e): cor Fre, Pot.
44. **Bacidia polychroa** (Th. Fr.) Körb. – GO (Kobzar 2006, Yurchenko 2011), MI (Gorbach 1965c), MO (Kobzar 2006), VI (Kreyer 1913, Yatsyna 2010c): cor Acp, Fre, Pic, Pot, Til.
45. **Bacidia rubella** (Hoffm.) A. Massal. – BR (Golubkov 1987, Kobzar 2006, Yatsyna 2014d), GO (Ljubitzkaja 1914, Wyssotzky et al. 1925, Ges 1960, Golubkov 1987, 1992, 2011), GR (Golubkov 1987, 1992, 2014a, Yatsyna 2010g, 2016c), MI (Golubkov & Vynaev 1981, Golubkov 1992, Yatsyna 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Kobzar 2006, Yatsyna 2009b, 2012a), VI (Kreyer 1913, Golubkov 1992, Kobzar 2006, Yatsyna 2010c, 2017, Bely 2011a), no exact locality (Makarevich 1960): cor Acp, Aln, Car, Fre, Pot, Qup, Qur, Sal, Til, Thu, Ulm.
46. **Bacidia subincompta** (Nyl.) Arnold – BR (Yatsyna 2014d), GO (Golubkov 2007), GR (Yatsyna 2016c), MI (Yatsyna 2013b, 2013c, 2014a, 2014b, 2015c), VI (Golubkov 1992, Yatsyna 2013f): cor Acp, Fre, Qur, Til.
47. **Bacidia vermifera** (Nyl.) Th. Fr. – GO (Savicz 1909), VI (Yurchenko 2011): cor Bet, Pot.
48. **Bacidina arnoldiana** (Körb.) V. Wirth & Vězda – BR (Yatsyna 2014d), MI (Yatsyna 2014a, 2015c), VI (Insarov & Pchelkin 1982, Bely 2011a, Yatsyna 2013f, 2017): cor Acp, Aln, Bet, Car, Fre, Pot, Qur.

49. **Bacidina assulata** (Körb.) S. Ekman – BR (Makarevicz 1960): cor Fre.
50. **Bacidina chlorotricula** (Nyl.) Vězda & Poelt – MI (Yatsyna 2015c), VI (Yatsyna 2013f): cor, sil Aln.
51. **Bacidina delicata** (Leight.) V. Wirth & Vězda – MI (Yatsyna 2012d): cor Aln.
52. **Bacidina egenula** (Nyl.) Vězda – VI (Yatsyna & Motiejūnaite 2015): cor Aln.
53. **Bacidina inundata** (Fr.) Vězda – MI (Golubkov & Vynaev 1981, Chernyshov 2004a), VI (Kreyer 1913, Golubkov 1992, Yatsyna 2013f, 2017): sil.
54. **Bacidina phacodes** (Körb.) Vězda – BR (Golubkov 1987), GO (Golubkov 2011), GR (Bachmann & Bachmann 1920), MI (Kobzar 2006), MO (Bely 2011a), VI (Kreyer 1913, Yatsyna 2017), no exact locality (Yatsyna 2009e): cor, lig, roo Aln, Pic, Pot, Qur.
55. **Bacidina sulphurella** (Samp.) M. Hauck & V. Wirth – VI (Yatsyna 2013f): cor Aln.
56. **Bactrospora dryina** (Ach.) A. Massal. – BR (Yatsyna 2014d), GO (Yatsyna 2011e), GR (Yatsyna 2016c), MI (Yatsyna 2015c), MO (Yatsyna 2011e), VI (Yatsyna 2011e): cor Acp, Qur, Til.
57. **Baeomyces rufus** (Huds.) Rebent. – BR (Krawiec 1938, Golubkov 1987, Yatsyna 2010b), GO (Golubkov & Vynaev 1981, Golubkov 1992, 2011, 2014a, Bely 2010a), GR (Yatsyna 2010b, 2010g), MI (Gorbach 1965d, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna 2010a, 2010b, 2010h, Bely 2010c), MO (Yatsyna 2009b, 2010b), VI (Kreyer 1913, Golubkov 1987, 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010b, 2010c, 2010d, 2011a, 2017, Bely 2015b), no exact locality (Golubkov 1992): sil, ter.
58. **Biatora areolata** Kreyer – GO (Golubkov 2011), MI (Gorbach 1955), VI (Kreyer 1913, Insarov & Pchelkin 1982, Kobzar 2006): cor Aln, Pic, Pot, Qur, Sor.
59. **Biatora beckhausii** (Körb.) Tuck. – GR (Bachmann & Bachmann 1920), MI (Chernyshov 2004a), VI (Golubkov 1992): cor Jun, Pic, Pot.
60. **Biatora globulosa** (Flörke) Fr. – BR (Golubkov 1987), GO (Golubkov & Vynaev 1981), GR (Bachmann & Bachmann 1920, Golubkov 1987, Yatsyna 2016c), MI (Tomin 1939, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov 1992, Yatsyna 2005, Golubkov et al. 2013), VI (Kreyer 1913, Gorbach & Mashenkova 1967): cor, lig Acp, Bet, Pic, Pin, Pot, Qur, Sal, Ulm. – Note: The report from the Gomel region by Golubkov (1992) may be erroneous because the species was not also included in subsequent papers (e.g. Golubkov 2011). That report is not included in the present list.
61. **Biatora efflorescens** (Hedl.) Räsänen – GO (Tsuryskau 2017a): cor Pin.
62. **Biatora epixanthoides** (Nyl.) Diederich – VI (Yatsyna 2017): cor Pot.
63. **Biatora ocelliformis** (Nyl.) Arnold – MO (Yatsyna & Motiejūnaite 2015), VI (Kreyer 1913): cor Car, Pic.
64. **Biatora vernalis** (L.) Fr. – GR (Bachmann & Bachmann 1920), MI (Golubkov & Vynaev 1981, Yatsyna 2010a), VI (Yatsyna 2008): cor Coa, Fre, Pot, Til.
65. **Biatoridium monasteriense** J. Lahm ex Körb. – MI (Yatsyna 2014a): cor Fre.
66. **Bilimbia sabuletorum** (Schreb.) Arnold – GR (Yatsyna 2016c), MI (Yatsyna 2010a, 2012b, 2013b, 2013c), VI (Kreyer 1913, Bachmann & Bachmann 1920, Yatsyna 2010c, 2010d): mus, on Peltigera canina.
67. **Blastenia crenularia** (With.) Arup, Söchting & Frödén – VI (Kreyer 1913): sil.

68. **Blastenia ferruginea** (Huds.) Th. Fr. – GO (Golubkov 2007), GR (Bachmann & Bachmann 1920, Golubkov & Khartanovich 2004b), MI (Golubkov & Vynaev 1981, Golubkov 1992): cor Pic, Sor. – Note: The report on calcareous stone by Golubkov et al. (2013) seems to be doubtful based on the substrate and so is not included in the present list. The material that served as the basis of the report should be reexamined to determine its taxonomic status.
69. **Blastenia herbidella** (Hue) Servít – MI (Kondratyuk et al. 2013): cor Til.
70. **Blennothallia crispa** (Huds.) Otálora, P.M. Jørg. & Wedin – GR (Gilibert 1781, 1792): not indicated.
71. **Brianaria sylvicola** (Flot. ex Körb.) S. Ekman & M. Svensson – MI (Chernyshov 2003), VI (Kreyer 1913): sil.
72. **Brianaria tuberculata** (Sommerf.) S. Ekman & M. Svensson – GO (Savicz 1911): sil.
73. **Bryobilimbia hypnorum** (Lib.) Fryday, Printzen & S. Ekman – GO (Danilchuk et al. 1976): cor Fre.
74. **Bryobilimbia sanguineoatra** (Wulfen) Fryday, Printzen & S. Ekman – MI (Bachmann & Bachmann 1920): ter. – Note: This species is included here based on the report by Bachmann and Bachmann (1920). Previously, this report was treated as referring to *Mycobilimbia hypnorum* (Lib.) Kalb & Hafellner by Yurchenko (2011) and Yatsyna & Merzhvinsky (2012). However Bachmann and Bachmann (1920) noted specifically that their specimen perfectly match the material identified by Arnold. Arnold's material has now been designated as a neotype for *Lichen sanguineoater* Wulfen (Fryday et al. 2014).
75. **Bryoria capillaris** (Ach.) Brodo & D. Hawksw. – BR (Gorbach 1965a, 1973b, Bely 2011a, Yatsyna 2013a), GO (Golubkov & Vynaev 1981, Golubkov 2011), GR (Kobzar 2006, Golubkov 2014a), MI (Oksner 1924, Gorbach 1965a, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Bely 2012c, Yatsyna 2013a), MO (Kobzar 2006), VI (Gorbach 1965a, 1978, Gorbach & Mashenkova 1967, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2010c, 2010f, 2013a, 2017, Bely 2011a), no exact locality (Golubkov 1992): cor Aln, Bet, Jun, Pic, Pin, Pon.
76. **Bryoria chalybeiformis** (L.) Brodo & D. Hawksw. – VI (Golubkov 2009a): sil.
77. **Bryoria furcellata** (Fr.) Brodo & D. Hawksw. – BR (Gorbach 1973b), GO (Kravchuk 2000, Golubkov 2011), VI (Gorbach 1965a, Gorbach & Mashenkova 1967, Golubkov & Kobzar 2007): cor Bet, Pin.
78. **Bryoria fuscescens** (Gyeln.) Brodo & D. Hawksw. – BR (Golubkov 1987), GO (Savicz 1910, Golubkov & Vynaev 1981, Kobzar 2006), GR (Gilibert 1781, 1792, Golubkov 1987, 2014a, Yatsyna 2013a, 2016c), MI (Gorbach 1955, 1961, Golubkov & Vynaev 1981, Kobzar 2006, Yurchenko 2011, Yatsyna & Yurchenko 2013, Yatsyna 2013a, 2014a, 2015c), MO (Kreyer 1913, Kobzar 2006, Yatsyna 2009b), VI (Kreyer 1913, Gorbach 1965a, Gorbach & Mashenkova 1967, Insarov & Pchelkin 1982, Golubkov 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010f, 2011a, 2017), no exact locality (Gorbach 1956, 1957): cor Acp, Aln, Bet, Pic, Pin, Pot, Qup, Qur, Sal, Til.
79. **Bryoria implexa** (Hoffm.) Brodo & D. Hawksw. – BR (Tessendorff 1922, Krawiec 1938, Gorbach 1965a, 1973b, Yatsyna 2013a), GO (Savicz 1910, Ges 1960, Golubkov 1992), GR (Bachmann & Bachmann 1920, Kobzar 2006, Bely 2011a), MI (Bachmann & Bachmann 1920, Savicz 1925, Gorbach 1955, Golubkov 1992, Yatsyna 2006a, Bely 2011a), MO (Kreyer 1913, Savicz 1925), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1965a, 1973b, Golubkov & Kobzar 2007, Yatsyna 2009a, Yurchenko 2011), no exact locality (Gorbach 1956, 1957, Golubkov & Kobzar 2005): cor, ter Bet, Car, Pic, Pin, Qur. – Note: Records of *B. mirabilis* (Motyka) Bystrek and *B. motykana* (Bystrek) Bystrek (cited as *B. motycii* Bystrek nom. inval. in the literature) are treated as *B. implexa* (Hoffm.) Brodo & D. Hawksw. based on Lisická (2005).

80. **Bryoria nadvornikiana** (Gyeln.) Brodo & D. Hawksw. – GO (Golubkov 1992, Yurchenko 2011), GR (Golubkov 1987), MI (Golubkov 1987), VI (Yatsyna 2008, 2013a, Yurchenko 2011): cor Bet, Pic, Pin, Qur.
81. **#Buellia badia** (Fr.) A. Massal. – GO (Gorbach & Osmolovskaya 1965), GR (Golubkov 1993), MI (Golubkov 1993), VI (Golubkov 1993): sil.
82. **Buellia disciformis** (Fr.) Mudd – BR (Golubkov 1987), GO (Savicz 1911, Wyssotzky et al. 1925, Golubkov 1992), GR (Bachmann & Bachmann 1920), MI (Bachmann & Bachmann 1920, Gorbach 1955, Yatsyna 2012b, 2013b), MO (Yatsyna 2009b), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Insarov & Pchelkin 1982, Kobzar 2006, Yatsyna 2009a), no exact locality (Gorbach 1957, Bely 2013): cor Acp, Aln, Bet, Pic, Pin, Pot, Qur, Til.
83. **Buellia geophila** (Flörke ex Sommerf.) Lyngé – MI (Gorbach 1955, Golubkov & Vynaev 1981), no exact locality (Bachmann & Bachmann 1920, Tomin 1956): cor Aln, Fre.
84. **Buellia griseovirens** (Turner & Borrer ex Sm.) Almb. – BR (Yatsyna 2013a, 2014d), GO (Bely 2011a, Tsurykau 2013a, Tsurykau & Khramchankova 2015, Tsurykau & Tsurikova 2017), GR (Yatsyna 2016c), MI (Yatsyna 2009d, 2012b, 2013b, 2015c, Bely 2011a), VI (Golubkov 1993, Bely 2011a, Yatsyna 2011e, 2013a, 2017, Gapienko et al. 2014): cor, lig Aln, Fre, Pin, Qur.
85. **Buellia schaeferi** De Not. – BR (Golubkov 1987), GO (Golubkov 2007), MI (Yatsyna 2012b, 2013b), MO (Kobzar 2006, Yatsyna 2009b), VI (Kreyer 1913, Yatsyna 2011a, 2011e): cor, lig Aln, Bet, Pin, Pot, Qur, Til.
86. **Byssoloma subdiscordans** (Nyl.) P. James – MO (Savicz & Savicz 1924): fol Pic.
87. **Caeruleum heppii** (Nägeli ex Körb.) K. Knudsen & L. Arcadia – MI (Golubkov & Vynaev 1981): not indicated.
88. **Calicium abietinum** Pers. – BR (Golubkov 1987, Yurchenko 2011), GO (Golubkov & Vynaev 1981, Golubkov 1987), GR (Golubkov 1987, 1992), MI (Bachmann & Bachmann 1920, Golubkov & Vynaev 1981, Golubkov 1987, 1992, Yatsyna 2009d, 2014a), VI (Golubkov 1987, 1991, 1992, Golubkov & Kobzar 2007, Yatsyna 2010f, Bely 2011a), no exact locality (Gorbach 1962, Golubkov & Titov 1990): cor, lig Car, Pic, Pin, Qur. – The report of this species by Kreyer (1913) is erroneous based on the small reported ascospore size ($7.8\text{--}10.4 \times 5.2\text{--}5.8 \mu\text{m}$). It likely refers to *C. glaucellum* (e.g., Tibell 1999). However the material that served as the basis of the report should be reexamined to determine its true taxonomic status and so the report is not included in the present list.
89. **Calicium adpersum** Pers. – BR (Golubkov 1987), GO (Golubkov 1987, 1992), GR (Golubkov 1987), MO (Yatsyna 2009b): cor, lig Pin, Qur.
90. **Calicium glaucellum** Ach. – BR (Golubkov 1987, Yurchenko 2011), GO (Tsurykau & Khramchankova 2011a, Golubkov 2011), GR (Golubkov 1987), VI (Golubkov & Kobzar 2007, Yatsyna 2010f, 2017): cor, lig Car, Pic, Pin, Qur.
91. **Calicium lenticulare** Ach. – BR (Golubkov & Titov 1990), GO (Golubkov 1992): lig Qur.
92. **Calicium parvum** Tibell – GO (Tsurykau 2017c): cor Pin.
93. **Calicium quercinum** Pers. – GR (Yatsyna 2013d), no exact locality (Tomin 1939): cor, lig Acp.
94. **Calicium salicinum** Pers. – BR (Golubkov 1987), GO (Golubkov & Vynaev 1981, Golubkov 1987, 1992, 2011), GR (Golubkov 1987, 2014a), MI (Golubkov 1987), VI (Golubkov 1987, 1992, Golubkov & Kobzar 2007, Yatsyna 2011e), no exact locality (Tomin 1956, Golubkov 1992): cor, lig Acp, Aln, Car, Pin, Qur.

95. **Calicium trabinellum** (Ach.) Ach. – BR (Yatsyna 2013a, 2014d), GO (Golubkov 1992, 2007, 2011), GR (Golubkov 1987, 1992, 2014a), MI (Bachmann & Bachmann 1920, Golubkov 1987, 1992, Yatsyna 2009d), VI (Golubkov 1987, 1991, 1992, Golubkov & Kobzar 2007, Yatsyna 2010f, 2013f), no exact locality (Gorbach 1962, Golubkov 1992): cor, lig Aln, Pin, Qur.
96. **Calicium viride** Pers. – BR (Golubkov 1987, Bely 2011a, Yatsyna 2014d), GO (Golubkov 1992, 2007, 2011), GR (Bachmann & Bachmann 1920, Golubkov 1992, 2014a, Bely 2011a, Yatsyna 2016c), MI (Golubkov & Vynaev 1981, Kobzar 2006, Yatsyna 2005, 2013b, 2013c, 2014a, 2015c, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Kobzar 2006, Yatsyna 2009b, 2011c), VI (Kreyer 1913, Golubkov 1992, Yatsyna 2010c, 2017), no exact locality (Gorbach 1973b, Golubkov 1992): cor, lig Acp, Aln, Bet, Fre, Lar, Pic, Pin, Qur, Sal, Til.
97. **Calogaya lobulata** (Flörke) Arup, Frödén & Søchting – MI (Tomin 1956, Yatsyna & Stefanovich 2005, Yatsyna 2005): cal.
98. **Calogaya pusilla** (A. Massal.) Arup, Frödén & Søchting – BR (Golubkov 1987, Yatsyna 2012f, 2014d), GO (Savicz 1909, Golubkov 1992, 2011, Golubkov et al. 2007a, Tsurukau & Khramchankova 2007, 2009a, Sobchanka et al. 2012, Yatsyna 2012f, Tsurukau & Tsurikova 2017), GR (Golubkov 1987, Yatsyna 2010g, 2016c, 2012f, Yurchenko 2011), MI (Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, 2004c, Yatsyna 2005, 2010a, 2012b, 2012c, 2012f, 2013b, 2013c, 2014a, 2014b, 2015c, Bely 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Yatsyna 2009b, 2012f), VI (Kreyer 1913, Golubkov 1987, 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2012f, Yurchenko 2011), no exact locality (Gorbach 1973b, Golubkov 1987, 1992): cal, cor, sil Acp, Til.
99. **Caloplaca albolutescens** (Nyl.) H. Olivier – VI (Yatsyna 2013f): cal.
100. **Caloplaca cerina** (Ehrh. ex Hedw.) Th. Fr. – BR (Suza 1928, Golubkov 1987, Bely & Kudin 2016), GO (Savicz 1909, 1911, Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Golubkov 1992, 2011, Kravchuk 2001, Golubkov et al. 2007a, Tsurukau & Khramchankova 2007, 2009a, Tsurukau et al. 2009, Bely 2010a, Sobchanka et al. 2012, Yatsyna 2014d), GR (Bachmann & Bachmann 1920, Yatsyna 2010g, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Kobzar 1997, Kravchuk 2001, Chernyshov 2004a, Yatsyna 2005, 2010a, 2013b, 2014a, 2015c, Yatsyna & Yurchenko 2013), MO (Savicz & Savicz 1924, Savicz 1925, Kravchuk 2001, Yatsyna 2009b), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Yatsyna 2008, 2011a, 2013a, 2017, Bely 2011a), no exact locality (Gorbach 1956, Yatsyna 2009e): cor, lig Acp, Aln, Bet, Pin, Poc, Pon, Pot, Pyr, Qur, Sal, Sor.
101. **Caloplaca chlorina** (Flot.) H. Olivier – VI (Bachmann & Bachmann 1920): sil.
102. **Caloplaca obscurella** (J. Lahm) Th. Fr. – MI (Bachmann & Bachmann 1920): cor Pot.
103. **Caloplaca saxicola** (Hoffm.) Nordin – BR (Bely & Golubkov 2009a, Bely 2011b, Yatsyna 2012f, 2014d), GO (Tsurukau & Khramchankova 2009a, Yatsyna 2012e), GR (Golubkov 1993, Bely & Golubkov 2009a, Yatsyna 2010g, 2012f), MI (Golubkov 1993, Yatsyna 2010a, 2012b, 2012c, 2012f, 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Yatsyna 2009b, 2012f), VI (Golubkov 1996, Yatsyna 2008, 2010c, 2011a, 2012f, Bely & Golubkov 2009a): cal, sil.
104. **Candelaria concolor** (Dicks.) Arnold – GO (Tsurukau 2017c), MI (Yatsyna 2013b, 2013c, 2014a): cor Fre, Til. – Note that *C. conolor* and *C. pacifica* were previously confused in Belarus and thus only reports after Yatsyna (2013b, 2013c) are included here. Earlier reports could refer to either species and the supporting vouchers need to be reexamined.

105. **Candelaria pacifica** M. Westb. & Arup – GO (Tsurukau & Khramchankova 2011a), GR (Yatsyna 2016c), MI (Bely 2013, Yatsyna 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013): cor Acp, Bet, Fre, Lar, Qur, Rob, Sor, Til.
106. **Candelariella aurella** (Hoffm.) Zahlbr. – BR (Golubkov 1987, Bely 2011a, Bely & Kudin 2016), GO (Savicz 1911, Kobzar 2006, Golubkov et al. 2007a, Tsurukau & Khramchankova 2009a, Bely 2010a, 2016a, Golubkov 2011, Sobchanka et al. 2012, Tsurukau & Tsurikova 2017), GR (Yatsyna 2010g, 2013a, 2016c), MI (Gorbach 1955, Kobzar 2006, Yatsyna 2007a, 2010a, 2012b, 2012c, 2013b, 2013c, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Yatsyna 2009b, 2013a), VI (Gorbach 1973b, Golubkov 1992, Yatsyna 2008, 2010c, 2010d, 2011a, 2017, Bely 2015b), no exact locality (Gorbach 1957): cal, cor, sil, lig Acp, Ahi, Fre, Pon, Pot, Qur, Til, Ulm.
107. **Candelariella coralliza** (Nyl.) H. Magn. – BR (Yatsyna 2013f), GR (Yatsyna 2013f, 2016c), MI (Yatsyna & Golubkov 2009, Yatsyna 2010h), VI (Yatsyna 2013f): sil.
108. **Candelariella reflexa** (Nyl.) Lettau – BR (Yatsyna 2014d), MI (Yatsyna & Golubkov 2009): cor Aln, Mal.
109. **Candelariella vitellina** (Hoffm.) Müll. Arg. – BR (Suza 1928), GO (Savicz 1909, Wyszotszky et al. 1925, Golubkov 1992, 2011, Golubkov et al. 2007a, Tsurukau & Khramchankova 2009a, Bely 2011a, Tsurukau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 1997, 2014a, Golubkov & Khartanovich 2004a, 2004b, 2005, Yatsyna 2010g, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov 1992, 1997, Kravchuk & Kakareka 1995, Yurchenko & Golubkov 2003, Chernyshov 2003, 2004a, Yatsyna 2005, 2009d, 2010a, 2013b, 2013c, 2015c, Yurchenko 2011, Bely 2011a, 2012c, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Savicz 1925, Yatsyna 2009b, 2012a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Yatsyna 2008, 2010c, Bely 2015b), no exact locality (Gorbach 1956, 1957, 1962): cal, cor, lig, sil Acp, Bet, Car, Fre, Lar, Pic, Pin, Pot, Pon, Ppa, Pse, Pyr, Qur, Sal, Sor, Til.
110. **Candelariella xanthostigma** (Ach.) Lettau – BR (Golubkov 1987, Yatsyna 2014d), GO (Savicz 1911, Kreyer 1913, Kravchuk 2001, Tsurukau & Khramchankova 2009a, Tsurukau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, Yatsyna 2016c), MI (Bachmann & Bachmann 1920, Kravchuk 2001, Mavrishev & Dyukova 2008a, Yatsyna 2009d, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Bely 2011a, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Kravchuk 2001, Yatsyna 2009b), VI (Kreyer 1913, Kravchuk 2001, Bely & Golubkov 2008, Yatsyna 2010c, 2010d, 2011a, 2017, Gapienko et al. 2014), no exact locality (Golubkov 1992): cal, cor, lig, sil Acp, Bet, Fre, Pic, Pis, Pon, Pot, Qur, Sal, Til, Ulm.
111. **Carbonicola anthracophila** (Nyl.) Bendiksby & Timdal – MO (Yatsyna 2012a), GO (Tsurukau 2017c): cor, lig Pin.
112. **Carbonicola myrmecina** (Ach.) Bendiksby & Timdal – GR (Yatsyna 2016c), VI (Yatsyna 2017): cor Bet, Pic, Pis.
113. **Catapyrenium cinereum** (Pers.) Körb. – GR (Yatsyna 2015d), MI (Golubkov & Kobzar 2005, Yurchenko 2011), VI (Yatsyna 2010d): cal, ter.
114. **Catillaria croatica** Zahlbr. – GO (Tsurukau 2017a): cor Car, Coa, Pot.
115. **Catillaria nigroclavata** (Nyl.) Schuler – GO (Tsurukau & Khramchankova 2009a), MI (Bely 2010c), VI (Yatsyna 2011e), no exact locality (Tomin 1939): cor, lig Pic, Poc. – Note: The substrates in this entry were obtained from the data associated with the vouchers at GSU.
116. **Catinaria atropurpurea** (Schaer.) Vězda & Poelt – BR (Golubkov 1987, Bely 2011a, Bely & Kudin 2016), GO (Savicz 1911, Golubkov 1992, Golubkov et al. 2007a, Bely 2010a, 2011a), MI (Bely 2011a, Yatsyna & Yurchenko 2013, Yatsyna 2014a), MO (Bely 2011a), VI (Kobzar 2006, Yatsyna 2011a, Bely 2015b): cor, lig Coa, Pin, Pot, Qur, Til, Ulm.

117. **Cetraria aculeata** (Schreb.) Fr. – BR (Golubkov 1986, Yatsyna 2013a), GO (Yatsyna 2013a), GR (Błoński 1889, Bachmann & Bachmann 1920, Golubkov 1986, 1987, 2011, 2014a, Yatsyna 2013a), MI (Bachmann & Bachmann 1920, Golubkov 1987, Golubkov & Yesis 1997a, Yatsyna 2010a, 2013a), VI (Golubkov 1986, 1987, Golubkov & Kobzar 2007, Yatsyna 2010c), no exact locality (Golubkov 1992, 1998, Yatsyna 2009e, Bely 2015a): ter.
118. **Cetraria ericetorum** Opiz – BR (Golubkov 1987, Yurchenko 2011, Yatsyna 2013a), GO (Gorbach 1973b, Golubkov 1987, Tsurukau 2005, Golubkov 2007, Yatsyna 2013a, Tsurukau et al. 2013b), GR (Bachmann & Bachmann 1920, Yatsyna 2009e, 2013a, Yurchenko 2011, Golubkov 2014a), MI (Savicz & Savicz 1924, Savicz 1925, Golubkov & Vynaev 1981, Yatsyna 2010a, 2013a), MO (Kreyer 1913, Yatsyna 2009b), VI (Kreyer 1913, Ges 1961, Gorbach & Mashenkova 1967, Golubkov 1992, Yatsyna 2008, 2010a, 2013a, Bely 2011a), no exact locality (Golubkov 1998): ter.
119. **Cetraria islandica** (L.) Ach. – BR (Golubkov 1987, Golubkov et al. 2012), GO (Palamarchuk et al. 1973, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Tsurukau 2005, Golubkov 2007, 2011, Tsurukau et al. 2009, 2013b, Golubkov et al. 2012, Yatsyna 2014d, Tsurukau & Tsurikova 2017), GR (Gilibert 1792, Bachmann & Bachmann 1920, Yatsyna 2010g, Golubkov et al. 2012, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna & Stefanovich 2005, Yatsyna 2010a, Yurchenko 2011, Golubkov et al. 2012), MO (Downar 1861, Kreyer 1913, Savicz 1914, Yatsyna 2009b, Golubkov et al. 2012), VI (Kreyer 1913, Bachmann & Bachmann 1920, Ges 1961, Gorbach & Mashenkova 1967, Scherbakova 1982, Golubkov 1991, Golubkov & Kobzar 1996, 2007, Yatsyna 2008, 2010a, 2011a, Bely & Golubkov 2008, Bely 2011a, Golubkov et al. 2012), no exact locality (Gorbach 1973b, Golubkov 1998, Kobzar 1998, Yatsyna 2009e): ter.
120. **Cetraria muricata** (Ach.) Eckfeldt – BR (Golubkov 1993), GR (Golubkov 1993), MI (Golubkov 1993): ter.
121. **Cetraria pinastri** (Scop.) Gray – BR (Golubkov 1987, Yatsyna 2013a, Bely 2016a, Bely & Kudin 2016), GO (Savicz 1909, Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Kravchuk 2001, Kobzar 2006, Golubkov et al. 2007a, Tsurukau & Khramchankova 2007, 2008, 2015, Tsurukau et al. 2009, 2012b, Golubkov 2011, Bely 2011a, Tsurikova 2013, Yatsyna 2014d, Tsurukau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Gorbach & Getko 1978, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov 1992, Kobzar 1997, Kravchuk 2001, Chernyshov 2003, Yatsyna 2005, 2009d, 2010a, Kobzar 2006, Bely 2010c, 2011a, Yurchenko 2011, Yatsyna & Yurchenko 2013), MO (Savicz & Savicz 1924, Savicz 1925, Yatsyna 2004, 2009b, 2013a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1965d, 1978, Gorbach & Mashenkova 1967, Golubkov 1991, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2010f, 2011a, 2013a, 2017, Yurchenko 2011, Bely 2011a), no exact locality (Gorbach 1957, Belomesyatseva 2004, Yatsyna 2009e): cor, lig, sil Acp, Aln, Bet, Fre, Jun, Pic, Pin, Pon, Pot, Qur, Sal, Sor, Til.
122. **Cetraria sepincola** (Ehrh.) Ach. – BR (Krawiec 1938, Golubkov 1987, Yatsyna 2011b), GO (Wyssotzky et al. 1925, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Tsurukau 2005, Golubkov et al. 2007a, Tsurukau & Khramchankova 2008, 2015, Yatsyna 2011b, Golubkov 2011, Bely 2011a, Tsurikova 2013), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2009e, 2010g, 2011b, 2016c), MI (Bachmann & Bachmann 1920, Oksner 1924, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna & Stefanovich 2005, Yatsyna 2005, 2010a, 2011b, 2015c, Bely 2010c, 2011a, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Yatsyna 2004, 2009b, 2011b), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov & Kobzar 2007, Yatsyna 2008, 2009e, 2010c, 2010d, 2010f, 2011a, 2017, Bely 2011a): cor, lig, sil Acp, Aln, Bet, Jun, Mal, Pce, Pin, Pot, Pyr, Qur, Sal, Sor, Til.
123. **Cetrelia cetrarioides** (Delise) W.L. Culb. & C.F. Culb. – BR (Bely et al. 2014), GR (Bely et al. 2014), MI (Bely et al. 2014), MO (Bely et al. 2014), VI (Bely 2011a, Bely et al. 2014): cor Aln, Bet, Car, Jun, Pot, Qur. – Note: Only records of *C. cetrarioides* published with TLC data are included here as the species

cannot be distinguished from *C. monachorum* without those data. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.

124. **Cetrelia monachorum** (Zahlbr.) W.L. Culb. & C.F. Culb. – BR (Bely 2011a, Bely et al. 2014), GO (Bely et al. 2014), GR (Bely et al. 2014), MI (Randlane & Saag 1992, Bely 2011a, Golubkov et al. 2013, Bely et al. 2014), MO (Bely et al. 2014), VI (Bely 2011a, Bely et al. 2014): cor, lig Acp, Aln, Car, Fre, Pot, Qur, Sal. – Note: Only records of *C. monachorum* published with TLC data are included here as the species cannot be distinguished from *C. cetrarioides* without those data. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
125. **Cetrelia olivetorum** (Nyl.) W.L. Culb. & C.F. Culb. – BR (Bely 2011a, Bely et al. 2014), GO (Bely 2010a, 2011a, Bely et al. 2014), GR (Bely et al. 2014), MI (Bely 2010b, Bely et al. 2014), MO (Bely 2014, Bely et al. 2014), VI (Bely 2010b, Bely et al. 2014): cor, mus Acp, Aln, Bet, Car, Fre, Pot, Qur, Sal, Til. – Note: Only records of *C. olivetorum* published with TLC data are included here because the species was previously considered to be synonymous with *C. cetrarioides* by many authors in Belarus. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
126. **Chaenotheca brachypoda** (Ach.) Tibell – BR (Golubkov 1987, Yatsyna 2014d, 2016a, Bely 2016a), GR (Golubkov 1987, Yatsyna 2016a), MI (Golubkov 1987, 1992, Yatsyna 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, 2016a), VI (Golubkov 1992, Yatsyna 2010c, 2011a, 2016a, 2017, Bely 2013): cor, lig Acp, Aln, Fre, Pic, Poa, Poc, Pot, Qur, Sal, Til.
127. **Chaenotheca brunneola** (Ach.) Müll. Arg. – BR (Golubkov 1987), GR (Golubkov 1987), MI (Golubkov 1987, 1992, Yatsyna 2010f, 2014a), VI (Golubkov 1987, 1992, Golubkov & Titov 1990, Golubkov & Kobzar 2007, Yatsyna 2008): cor, lig Bet, Pin, Qup.
128. **Chaenotheca chlorella** (Ach.) Müll. Arg. – BR (Golubkov 1987, 1992, Yatsyna 2013d), GO (Golubkov 1987), GR (Golubkov 1987, Yatsyna 2016a, 2016c), MI (Golubkov 1987, 1992, Yatsyna 2014a, 2016a), VI (Insarov & Pchelkin 1982, Golubkov 1992, Yatsyna 2013e, 2016a): cor, lig Acp, Car, Pic, Pin, Qup, Qur, Sal, on Trichaptum bifforme.
129. **Chaenotheca chrysocephala** (Ach.) Th. Fr. – BR (Golubkov 1987, Yatsyna 2013a, 2016a, Bely & Kudin 2016), GO (Golubkov & Titov 1990, Golubkov 1992, 2011, Bely 2010a, Yatsyna 2016a), GR (Bachmann & Bachmann 1920, Golubkov 1987, Bely 2011a, Yatsyna 2013a, 2016a, 2016c), MI (Golubkov & Vynaev 1981, Golubkov 1992, Kobzar 2006, Yatsyna 2009d, 2015c, 2016a, Bely 2011a, Golubkov et al. 2013), MO (Bely 2011a), VI (Kreyer 1913, Insarov & Pchelkin 1982, Golubkov 1987, 1991, 1992, Golubkov & Titov 1990, Golubkov & Kobzar 2007, Yatsyna 2010c, 2010f, 2016a, 2017, Bely 2011a), no exact locality (Gorbach 1962, Golubkov 1992, Yatsyna 2009e): cor, lig Aln, Bet, Pic, Pin, Qur, Sal.
130. **Chaenotheca cinerea** (Pers.) Tibell – MI (Yatsyna 2016a): cor Qur.
131. **Chaenotheca ferruginea** (Turner ex Sm.) Mig. – BR (Golubkov 1987, Bely 2011a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Golubkov & Vynaev 1981, Golubkov 1987, 1992, 2011, Tsurykau 2005, Bely 2010a, 2011a, Tsurykau & Khramchankova 2015, Tsurykau & Tsurikova 2017), GR (Golubkov 1987, 1992, 2014a, Yatsyna 2010g, Bely 2011a), MI (Golubkov & Vynaev 1981, Golubkov & Titov 1990, Golubkov 1992, Chernyshov 2003, Yatsyna 2005, 2009d, 2010a, 2010f, 2013a, 2013b, 2013c, 2014a, 2014b, 2015c, Bely 2010c, 2011a, Yurchenko 2011, Yatsyna & Yurchenko 2013), MO (Kobzar 2006, Yatsyna 2009b, 2012a, 2013a, Bely 2011a), VI (Kreyer 1913, Golubkov 1987, 1991, 1992, Kravchuk 2001, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2010f, 2011a, 2013a, 2017, Bely 2011a): cor, lig Aln, Bet, Lar, Pic, Pin, Pis, Qur.
132. **Chaenotheca furfuracea** (L.) Tibell – BR (Golubkov 1987, Bely 2011a, Yatsyna 2014d, 2016a, Bely & Kudin 2016), GO (Golubkov 1987, 1992, 2011, Bely 2010a, 2011a, Yatsyna 2016a, Tsurykau & Tsurikova 2017), GR (Yatsyna 2010g, 2013a, 2016a, 2016c, Bely 2011a, Yurchenko 2011, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Golubkov 1987, 1992, Yatsyna & Stefanovich 2005, Yatsyna 2005, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, 2016a, Bely 2011a, Yatsyna & Yurchenko 2013), MO

- (Yatsyna 2012a), VI (Kreyer 1913, Golubkov 1987, Golubkov & Kobzar 2007, Yatsyna 2010c, 2010d, 2010f, 2016a, 2017, Bely 2011a), no exact locality (Golubkov 1992): cor, lig, roo, ter Acp, Aln, Bet, Fre, Poa, Pic, Pin, Qup, Qur, Sal, Til, Ulm.
133. **Chaenotheca gracilenta** (Ach.) J.-E. Mattsson & Middelb. – BR (Golubkov 1987, Yatsyna 2016a), MI (Bachmann & Bachmann 1920): cor Bet, Qur.
134. **Chaenotheca hispidula** (Ach.) Zahlbr. – GO (Tsurykau 2017c), MO (Yatsyna 2013d): cor Aln, Qur.
135. **Chaenotheca laevigata** Nádv. – BR (Golubkov 1987), GR (Golubkov 1987), VI (Golubkov 1987, 1992, Golubkov & Kobzar 2007, Yatsyna 2010f): cor, lig Acp, Pin, Qur.
136. **Chaenotheca phaeocephala** (Turner) Th. Fr. – BR (Bely 2011a, Yatsyna 2014d), GO (Golubkov & Titov 1990, Golubkov 1992, Yatsyna 2016a, Tsurykau & Tsurikova 2017), GR (Golubkov & Titov 1990, Yatsyna 2016a, 2016c), MI (Golubkov & Vynaev 1981, Golubkov & Titov 1990, Golubkov 1992, Bely 2011a, Yatsyna 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, 2016a), MO (Kobzar 2006), VI (Yatsyna 2016a, 2017), no exact locality (Tomin 1939): cor Acp, Lar, Pic, Pin, Poa, Poc, Qur, Til.
137. **Chaenotheca stemonea** (Ach.) Müll. Arg. – BR (Golubkov 1987, Yatsyna 2013a, 2014d, Bely 2016a, Bely & Kudin 2016), GO (Golubkov 1987, 1992, Tsurykau & Khramchankova 2010b, Bely 2011a, Tsurykau & Khramchankova 2015, Tsurykau & Tsurikova 2017), GR (Golubkov 1987, Kobzar 2006), MI (Golubkov 1987, 1992, Golubkov & Titov 1990, Bely 2011a, Yatsyna 2013b, 2014a, Golubkov et al. 2013), MO (Bely 2011a), VI (Kreyer 1913, Golubkov 1987, 1991, 1992, Golubkov & Kobzar 2007, Bely 2011a, 2011e, Yatsyna 2017), no exact locality (Golubkov 1992): cor, lig Acp, Aln, Bet, Pic, Pin, Qup, Qur.
138. **Chaenotheca trichialis** (Ach.) Th. Fr. – BR (Golubkov 1987, Bely 2011a, Yatsyna 2013a, 2014d, 2016a, Bely & Kudin 2016), GO (Wyssotzky et al. 1925, Golubkov 1987, 1992, Kobzar 2006, Tsurykau & Khramchankova 2010b, Bely 2011a, Tsurykau & Khramchankova 2015, Yatsyna 2016a, Tsurykau & Tsurikova 2017), GR (Golubkov 1987, 1992, 2014a, Yatsyna 2010g, 2016a, 2016c), MI (Bachmann & Bachmann 1920, Golubkov & Titov 1990, Golubkov 1992, Chernyshov 2003, Yatsyna & Stefanovich 2005, Yatsyna 2010a, 2010f, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, 2016a, Bely 2011a, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Kobzar 2006, Yatsyna 2009b, 2012a, 2016a, Bely 2011a), VI (Kreyer 1913, Golubkov 1987, 1992, Golubkov & Kobzar 2007, Yatsyna 2010c, 2010d, 2011a, 2016a, 2017, Bely 2011a): cor, lig Acp, Aln, Bet, Fre, Lar, Pic, Pin, Poa, Pyr, Qup, Qur, Til, Ulm.
139. **Chaenotheca xyloxena** Nádv. – BR (Golubkov 1987), GO (Bely 2010a, Golubkov 2011), GR (Golubkov 1987), MI (Golubkov 1987, 1992, Golubkov & Titov 1990, Yatsyna 2010f), MO (Yatsyna 2013a), VI (Golubkov 1987, 1992, Golubkov & Kobzar 2007, Yatsyna 2010f, 2011e, 2017, Bely 2011a), no exact locality (Golubkov 1992): cor, lig Aln, Car, Pic, Pin, Qur.
140. ***Chaenothecopsis consociata** (Nádv.) A.F.W. Schmidt – GR (Yatsyna 2016c), VI (Yatsyna 2011e, 2017): on *Chaenotheca chrysocephala*.
141. ***Chaenothecopsis epithallina** Tibell – GO (Golubkov 2011), GR (Golubkov 1987), VI (Golubkov 1987, Yatsyna 2011e): on *Chaenotheca trichialis*. – Note: The report of this species on pine roots by Yatsyna (2010c) seems doubtful and is not included in the present list. The supporting vouchers should be reexamined to determine the taxonomic status of the report.
142. +**Chaenothecopsis nana** Tibell – MI (Yatsyna 2015c): cor Qur.
143. #**Chaenothecopsis pusilla** (Ach.) A.F.W. Schmidt – BR (Golubkov 1987), GO (Tsurykau & Czarnota 2014, Tsurykau & Khramchankova 2015), GR (Yatsyna 2013a), MI (Yurchenko 2011, Yatsyna 2013a, 2015c), VI (Kreyer 1913, Yatsyna 2010f, 2013a, 2017, Yurchenko 2011): cor, lig Car, Qur, Pic, Pin.

144. **#Chaenothecopsis pusiola** (Ach.) Vain. – GR (Golubkov 1987), MI (Golubkov 1987, Yatsyna 2009d, Golubkov et al. 2013): lig, on *Chaenotheca* sp.
145. **+Chaenothecopsis savonica** (Räsänen) Tibell – GO (Tsurukau 2017c): lig.
146. **#Chaenothecopsis viridireagens** (Nádv.) A.F.W. Schmidt – GR (Golubkov 1987), VI (Golubkov 1992): lig Aln.
147. **Chrysothrix candelaris** (L.) J.R. Laundon – BR (Golubkov 1987, Golubkov & Kukwa 2006, Bely 2011a, Yatsyna 2014d), GO (Wyssotzky et al. 1925, Ges 1960, Golubkov 1992, 2007, 2011), GR (Golubkov 1987, Bely 2011a, Yatsyna 2016c), MI (Golubkov 1992, Yatsyna 2014a, 2015c), MO (Kobzar 2006, Yatsyna 2011c), VI (Yatsyna 2011e, 2017), no exact locality (Tomin 1956, Golubkov 1992): cor Acp, Fre, Pic, Qup, Qur, Sal, Til.
148. **Chrysothrix chlorina** (Ach.) J.R. Laundon – VI (Insarov & Pchelkin 1982): cor Pin.
149. **Circinaria calcarea** (L.) A. Nordin, Savić & Tibell – GR (Golubkov 2014b, Yatsyna 2016c), MI (Golubkov & Vynaev 1981), VI (Yurchenko 2011): cal. – Note: The report by Gorbach (1973b) was based on an incorrect nomenclatural update of *Lecanora calcarea* var. *contorta* from the of historical report by Bachmann and Bachmann (1920). Based on the description their report likely refers to *Circinaria contorta*.
150. **Circinaria contorta** (Hoffm.) A. Nordin, S. Savić & Tibell – GR (Golubkov 2014b, Yatsyna 2016c), VI (Bachmann & Bachmann 1920): sil.
151. **Circinaria gibbosa** (Hoffm.) A. Nordin, S. Savić & Tibell – MI (Yurchenko 2011): sil.
152. **Circinaria sphaerothallina** (J. Steiner) Sohrabi – GR (Yurchenko 2011): sil.
153. **Cladonia amaurocraea** (Flörke) Schaer. – GO (Gorbach 1973a, Golubkov 2011), GR (Bachmann & Bachmann 1920, Yatsyna 2013a), MI (Gorbach 1973b), VI (Kobzar 1985), no exact locality (Yatsyna 2009e): ter.
154. **Cladonia arbuscula** (Wallr.) Flot. ssp. **arbuscula** – BR (Tessendorff 1922, Krawiec 1938, Golubkov 1987, Yatsyna 2013a), GO (Savicz 1910, Wyssotzky et al. 1925, Ges 1960, Gorbach 1973a, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Tsurukau 2005, Timoshenkova & Tsurukau 2005, Kobzar 2006, Tsurukau et al. 2009, 2012c, Golubkov 2011, Yatsyna 2013a, Tsurukau & Tsurikova 2017), GR (Gilibert 1781, Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Chernyshov 2003, Yatsyna & Stefanovich 2005, Kobzar 2006, Yatsyna 2010a, 2013a, Yurchenko 2011), MO (Kreyer 1913, Savicz 1925, Yatsyna 2009b, 2013a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Kobzar 2006, Golubkov & Kobzar 2007, Bely & Golubkov 2008, Yatsyna 2008, 2010c, 2010f, 2011a), no exact locality (Tsetterman 1948, Kobzar 1998, Yatsyna 2009e): cor, lig, mus, ter Pic, Pin; ssp. **mitis** (Sandst.) Ruoss – BR (Krawiec 1938, Gorbach 1965d, Golubkov 1987), GO (Golubkov & Vynaev 1981, Golubkov 2007, 2011, Tsurukau & Khramchankova 2009b, Tsurukau et al. 2009, 2012b, Bely 2011a, Tsurukau & Tsurikova 2017), GR (Golubkov 1987), MI (Golubkov & Vynaev 1981, Yatsyna 2009c, Bely 2011a), VI (Kobzar 1983, Golubkov & Kobzar 2007), no exact locality (Tomin 1937, Tsetterman 1948, Yatsyna 2009e): cor, lig, mus, ter Pin.
155. **Cladonia bacilliformis** (Nyl.) Sarnth. – BR (Gorbach 1973b, Golubkov 1987), GO (Danilchuk et al. 1976, Golubkov 1992, 2011), GR (Kobzar 2006, Golubkov 2014a), MI (Gorbach 1955, Gorbach 1965d, Golubkov & Vynaev 1981, Golubkov 1992, Yatsyna 2009c), VI (Tsetterman 1948, Golubkov 1987, 1992, Golubkov & Kobzar 2007), no exact locality (Tomin 1937): cor, lig, ter Bet, Pic, Pin.
156. **Cladonia botrytes** (K.G. Hagen) Willd. – BR (Suza 1928, Golubkov 1987, Yatsyna 2013a), GO (Ljubitzkaja 1914, Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Tsurukau 2005, Kobzar 2006,

- Tsurykau et al. 2009, 2012c, Golubkov 2011, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 1992, 2014a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2004c, Kobzar 2006, Yatsyna 2009c, 2010a, 2013a, 2015c), MO (Savicz & Savicz 1924, Savicz 1925, Yatsyna 2004, 2009b, 2013a), VI (Kreyer 1913, Kobzar 1983, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010f, 2011a, 2017, Bely 2011a), no exact locality (Tsetterman 1948, Gorbach 1973b, Kobzar 1998, Yatsyna 2009e): cor, lig, ter Bet, Pic, Pin, Qur.
157. **Cladonia caespitica** (Pers.) Flörke – GO (Bely 2010a, Yatsyna 2013e), GR (Golubkov 1987), MI (Golubkov et al. 2013, Yatsyna 2013a), MO (Bely 2014), VI (Bely 2008a, Yatsyna 2013e), no exact locality (Oksner 1968): cor, mus, ter Aln, Pic, Qur, Til.
158. **Cladonia cariosa** (Ach.) Spreng. – BR (Krawiec 1938, Golubkov 1987, Yatsyna 2013a), GO (Gorbach 1973a, Golubkov 1992, 2007), GR (Bachmann & Bachmann 1920, Golubkov 1992, 2014a, Yatsyna 2010g), MI (Oksner 1925, Tsetterman 1948, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, 2004a, Yatsyna 2009c, 2010a, 2015c, Yurchenko 2011), MO (Tsetterman 1948, Yatsyna 2004, 2009b, 2013b), VI (Kreyer 1913, Tsetterman 1948, Kobzar 1983, Golubkov 1987, 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a), no exact locality (Bely 2013): lig, ter.
159. **Cladonia carneola** (Fr.) Fr. – BR (Golubkov 1987), GO (Gorbach 1973b, Golubkov 1992, 2007, Tsurykau & Khramchankova 2007, 2008), GR (Bachmann & Bachmann 1920, Golubkov 1992, 2014a, Yatsyna 2010g), MI (Bachmann & Bachmann 1920, Tsetterman 1948, Golubkov & Vynaev 1981, Yatsyna 2009c, 2010a), MO (Tsetterman 1948, Yatsyna 2004, Yatsyna 2013a), VI (Golubkov 1992, Golubkov & Kobzar 2007), no exact locality (Gorbach 1965d, Golubkov 1992): cor, lig, ter Qur.
160. **Cladonia cenotea** (Ach.) Schaer. – BR (Suza 1928, Golubkov 1987, Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Ges 1960, Gorbach 1973a, Golubkov & Vynaev 1981, Golubkov 2007, 2011, Tsurykau 2005, Tsurykau et al. 2009, 2012b, 2012c, Bely 2010a, 2011a, Yatsyna 2013a, 2014d, Tsurykau & Khramchankova 2015, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 1992, 2014a, Yatsyna 2010g, 2013a, Bely 2011a), MI (Bachmann & Bachmann 1920, Savicz 1925, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1992, Chernyshov 2003, 2004c, Yatsyna 2009c, 2010a, 2013a, 2015c, Bely 2010c, 2011a), MO (Savicz & Savicz 1924, Yatsyna 2004, 2009b, 2013a), VI (Kreyer 1913, Tsetterman 1948, Golubkov 1991, 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2010f, 2011a, 2013a, 2017, Bely 2011a), no exact locality (Yatsyna 2009e): cor, lig, mus, ter Aln, Bet, Car, Pic, Pin, Pot.
161. **Cladonia cervicornis** (Ach.) Flot. – GR (Bachmann & Bachmann 1920), VI (Kreyer 1913): ter. – Note: The reports of *C. cervicornis* (Ach.) Flot. by Yatsyna (2008, 2011a, 2013a) are treated as referring *C. verticillata* (Hoffm.) Schaer. and thus included under that species.
162. **Cladonia chlorophaea** (Flörke ex Sommerf.) Spreng. – BR (Tsurykau & Golubkov 2015), GO (Tsurykau & Golubkov 2015, Tsurykau & Tsurikova 2017), GR (Tsurykau & Golubkov 2015), MI (Tsurykau & Golubkov 2015), MO (Tsurykau & Golubkov 2015), VI (Tsurykau & Golubkov 2015): cor, lig, sil, ter Aln, Bet, Lar, Pin, Pot, Qur, Sal, Sor, Til. – Note: Only records of *C. chlorophaea* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the *C. chlorophaea* group without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
163. **Cladonia coccifera** (L.) Willd. – BR (Golubkov 1987), GO (Savicz 1911, Wyssotzky et al. 1925, Gorbach 1973a, Golubkov 1992, Tsurykau & Khramchankova 2007), GR (Gilibert 1781, 1792, Golubkov 1992, 2014a, Kobzar 2006, Yatsyna 2013a), MI (Oksner 1924, Tsetterman 1948, Golubkov & Vynaev 1981, Golubkov 1992, Yatsyna 2009c, 2013a), MO (Tsetterman 1948, Yatsyna 2009b), VI (Kreyer 1913, Tsetterman 1948, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2010c, 2011a, Bely 2011a), no exact locality (Gorbach 1973b, Kobzar 1998, Yatsyna 2009e): lig, mus, ter.

164. **Cladonia coniocraea** (Flörke) Spreng. – BR (Golubkov 1987, Bely 2011a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Savicz 1910, Ljubitzkaja 1914, Ges 1960, Golubkov & Vynaev 1981, Golubkov 1992, 2011, Tsuryskau 2005, Golubkov et al. 2007a, Tsuryskau & Khramchankova 2007, 2008, 2015, Tsuryskau et al. 2009, 2012b, 2012c, 2016a, Bely 2010a, 2011a, Sobchanka et al. 2012.), GR (Golubkov 1987, 1992, 2014a, Kobzar 2006, Bely 2011a, Yatsyna 2016c), MI (Oksner 1924, Tsetterman 1948, Gorbach 1955, 1973b, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1992, Kobzar 1997, 2006, Chernyshov 2003, 2004a, 2004b, 2004c, Yatsyna & Stefanovich 2005, Yatsyna 2005, 2009c, 2012b, 2012c, 2013b, 2014a, 2015c, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013), MO (Kreyer 1913, Savicz 1925, Yatsyna 2004, 2009b, Bely 2011a), VI (Kreyer 1913, Tsetterman 1948, Gorbach 1965d, 1973b, Golubkov 1991, 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010f, 2011a, 2017, Bely 2011a, Yurchenko 2011), no exact locality (Belomesyatseva 2004): cal, cor, lig, mus, sil, ter Acp, Aln, Bet, Fre, Jun, Pic, Pin, Pot, Qur, Sor, Til, on *Lobaria pulmonaria*.
165. **Cladonia conista** (Nyl.) Robbins – BR (Tsuryskau & Golubkov 2015), GO (Tsuryskau & Golubkov 2015), MI (Tsuryskau & Golubkov 2015): cor, ter Pot.
166. **Cladonia cornuta** (L.) Hoffm. – BR (Krawiec 1938, Golubkov 1987, Bely 2011b, Yatsyna 2013a), GO (Savicz 1911, Wyssotzky et al. 1925, Gorbach 1973a, Golubkov & Vynaev 1981, Tsuryskau 2005, Tsuryskau et al. 2009, 2012b, 2012c, Golubkov 2011, Bely 2011a), GR (Gilibert 1781, 1792, Golubkov 1987, 1992, 2014a, Yatsyna 2010g, 2013a, 2016c), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz 1925, Tsetterman 1948, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1992, Chernyshov 2003, 2004a, 2004c, Yatsyna 2009c, 2010a, 2013a), MO (Savicz 1925, Tsetterman 1948, Yatsyna 2004, 2009b, 2013a), VI (Kreyer 1913, Tsetterman 1948, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010f, 2011a, 2013a), no exact locality (Gorbach 1973b, Kobzar 1998, Belomesyatseva 2004, Yatsyna 2009e): cor, lig, mus, sil, ter Bet, Jun, Pic, Pin, Pot.
167. **Cladonia crispata** (Ach.) Flot. – BR (Krawiec 1938, Golubkov 1987, Bely 2011a, Yatsyna 2013a), GO (Wyssotzky et al. 1925, Gorbach 1973a, Golubkov & Vynaev 1981, Tsuryskau & Khramchankova 2007, Tsuryskau et al. 2009, 2012c, Golubkov 2011, Bely 2011a), GR (Bachmann & Bachmann 1920, Golubkov 1987, 1992, 2014a, Yatsyna 2010g, 2016c), MI (Savicz 1925, Golubkov & Vynaev 1981, Golubkov 1992, Kobzar 2006, Yatsyna 2009c, 2010a, Yurchenko 2011, Bely 2011a), MO (Tsetterman 1948, Yatsyna 2004, 2009b), VI (Kreyer 1913, Tsetterman 1948, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a), no exact locality (Gorbach 1973b, Kobzar 1998, Yatsyna 2009e): cor, lig, mus, ter Bet, Pic, Pin.
168. **Cladonia cryptochlorophaea** Asahina – GO (Tsuryskau & Golubkov 2015), MI (Tsuryskau & Golubkov 2015): ter.
169. **Cladonia cyanipes** (Sommerf.) Nyl. – VI (Golubkov 2002): ter.
170. **Cladonia deformis** (L.) Hoffm. – BR (Krawiec 1938, Golubkov 1987, Yatsyna 2013a), GO (Wyssotzky et al. 1925, Ges 1960, Gorbach 1973a, Golubkov & Vynaev 1981, Tsuryskau 2005, Tsuryskau et al. 2009, 2012c, Golubkov 2011, Yatsyna 2013a), GR (Golubkov 1987, 1992, 2014a, Yatsyna 2013a), MI (Oksner 1924, Savicz & Savicz 1924, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1992, Chernyshov 2003, Yatsyna & Stefanovich 2005, Bely 2011a, Yatsyna 2013a), MO (Kreyer 1913, Yatsyna 2004, 2013a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2011a), no exact locality (Gorbach 1973b, Kobzar 1998, Yatsyna 2009e): cor, lig, mus, ter Bet, Pic, Pin.
171. **Cladonia digitata** (L.) Hoffm. – BR (Golubkov 1987, Bely 2011a, Tsuryskau et al. 2012c, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Wyssotzky et al. 1925, Ges 1960, Gorbach 1973a, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Golubkov 1992, 2011, Tsuryskau & Khramchankova 2007, Tsuryskau et al. 2009, 2012c, Bely 2010a, 2011a), GR (Golubkov 1987, 1992, 2014a, Yatsyna 2010g, Bely 2011a), MI (Bachmann & Bachmann 1920, Savicz 1925, Tsetterman 1948, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna & Stefanovich 2005, Yatsyna 2010a, 2010f, 2013a, 2014a, 2015c,

Yatsyna & Yurchenko 2013, Bely 2010c, 2011a), MO (Savicz & Savicz 1924, Savicz 1925, Tsetterman 1948, Yatsyna 2004, 2009b, 2012a, 2013a, Bely 2011a), VI (Kreyer 1913, Tsetterman 1948, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010f, 2011a, 2013a, 2017, Bely 2011a): cor, lig, mus, ter Bet, Pic, Pin, Qur.

172. **Cladonia fimbriata** (L.) Fr. – BR (Tessendorff 1922, Golubkov 1987, Bely 2011a, Yatsyna 2013a, Tsurykau & Golubkov 2015, Bely & Kudin 2016), GO (Savicz 1910, Wyssotzky et al. 1925, Ges 1960, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Golubkov et al. 2007a, Tsurykau & Khranchankova 2007, 2008, Tsurykau et al. 2009, 2012b, 2012c, Bely 2010a, Golubkov 2011, Bely 2011a, Sobchanka et al. 2012, Tsurykau & Golubkov 2015), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 1992, 2014a, Golubkov & Khartanovich 2004b, Yatsyna 2010g, Bely 2011a, Yatsyna 2013a, Tsurykau & Golubkov 2015), MI (Bachmann & Bachmann 1920, Savicz & Savicz 1924, Savicz 1925, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1992, Chernyshov 2003, 2004a, 2004c, Yatsyna 2005, 2009c, 2010a, 2013b, 2013c, 2015c, Bely 2010c, 2011a, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Tsurykau & Golubkov 2015), MO (Kreyer 1913, Savicz 1925, Yatsyna 2004, 2009b, 2013a, Bely 2011a, Tsurykau & Golubkov 2015), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, Bely 2011a, Tsurykau & Golubkov 2015), no exact locality (Tsetterman 1948, Gorbach 1973b, Kobzar 1998): cor, lig, mus, sil, ter Aln, Bet, Car, Fre, Pic, Pin, Pon, Pot, Qur, Til.
173. **Cladonia floerkeana** (Fr.) Flörke – BR (Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Wyssotzky et al. 1925, Ges 1960, Golubkov 1992, 2011, Tsurykau 2005, Bely 2010a, 2011a, Yatsyna 2013a), GR (Yatsyna 2010g, Golubkov 2014a), MI (Oksner 1924, Savicz 1925, Golubkov & Vynaev 1981, Chernyshov 2004a, 2004c, Yatsyna 2009c, 2010f, Bely 2011a), MO (Savicz & Savicz 1924, Tsetterman 1948, Yatsyna 2004), VI (Kreyer 1913, Tsetterman 1948, Golubkov 1992, Yatsyna 2010c, 2013a), no exact locality (Gorbach 1973b): cor, lig, mus, ter Car, Pic, Pin.
174. **Cladonia foliacea** (Huds.) Willd. – BR (Golubkov 2002, 2009a), GR (Golubkov 2009a, Yatsyna 2015d), MI (Yatsyna 2010a), MO (Yatsyna 2015e), VI (Yatsyna 2010c): mus, ter.
175. **Cladonia furcata** (Huds.) Schrad. ssp. **furcata** – BR (Krawiec 1938, Golubkov 1987, Yatsyna 2013a), GO (Savicz 1910, Ges 1960, Gorbach 1973a, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Tsurykau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsurykau et al. 2009, 2012c, Golubkov 2011, Bely 2011a, Sobchanka et al. 2012, Yatsyna 2014d), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a, 2016c), MI (Savicz & Savicz 1924, Savicz 1925, Tsetterman 1948, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna & Stefanovich 2005, Kobzar 2006, Yatsyna 2010a, 2013a, Yurchenko 2011, Bely 2011a), MO (Yatsyna 2009b, 2013a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c), no exact locality (Gorbach 1973b): lig, mus, ter Pin; ssp. **subrangiformis** (L. Scriba ex Sandst.) Pišút – BR (Krawiec 1938), GO (Tsurykau & Khranchankova 2007), GR (Bachmann & Bachmann 1920), MI (Bachmann & Bachmann 1920), MO (Kreyer 1913), VI (Kreyer 1913, Bachmann & Bachmann 1920, Golubkov 1992): ter.
176. **Cladonia glauca** Flörke – BR (Golubkov 1987, Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Golubkov 1992, Bely 2010a, 2011a), GR (Bachmann & Bachmann 1920, Golubkov 1987), MI (Gorbach 1965d, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Yatsyna 2009c), VI (Golubkov 1987, 1992), no exact locality (Gorbach 1965d): cor, lig, mus, ter Aln, Bet, Pin.
177. **Cladonia gracilis** (L.) Willd. – BR (Tessendorff 1922, Krawiec 1938, Golubkov 1987, Yurchenko 2011, Yatsyna 2013a), GO (Savicz 1911, Ljubitzkaja 1914, Wyssotzky et al. 1925, Ges 1960, Gorbach 1973a, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Tsurykau 2005, Golubkov et al. 2007a, Tsurykau et al. 2009, 2012c, Golubkov 2011, Bely 2011a, Yatsyna 2014d), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Kobzar 2006, Yatsyna 2010g, 2013a, 2016c), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Tsetterman 1948, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1992, Chernyshov 2003, Yatsyna & Stefanovich 2005, Kobzar 2006, Yatsyna 2010a, 2013a, Yurchenko 2011, Bely 2011a), MO (Savicz 1925, Tsetterman

1948, Yatsyna 2004, 2009b, 2013a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Tsetterman 1948, Gorbach & Mashenkova 1967, Golubkov 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a, Bely 2011a), no exact locality (Gorbach 1973b, Kobzar 1998, Yatsyna 2009e): cor, lig, mus, ter Bet, Pic, Pin.

178. **Cladonia grayi** G. Merr. ex Sandst. – BR (Tsurykau & Golubkov 2015), GO (Tsurykau & Golubkov 2015), GR (Tsurykau & Golubkov 2015), MI (Tsurykau & Golubkov 2015), MO (Tsurykau & Golubkov 2015, Tsurykau 2017a), VI (Tsurykau & Golubkov 2015, Tsurykau 2017a): cor, lig, ter Aln, Bet, Car, Jun, Pic, Pin, Qur. – Note: Only records of *C. grayi* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the *C. chlorophaea* group without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
179. **Cladonia homosekikaica** Nuno – MI (Tsurykau & Golubkov 2015): lig.
180. **Cladonia incrassata** Flörke – BR (Suza 1928, Bely 2011a, 2011b, Yatsyna 2013a), GO (Golubkov 1992, Bely 2010a, Tsurykau & Khranchankova 2010b, Yurchenko 2011), MI (Savicz & Savicz 1924, Savicz 1925, Tsetterman 1948, Golubkov 1992, Yatsyna 2009c, 2010f, Bely 2011a, Golubkov et al. 2013), MO (Yatsyna 2004, 2013a, Bely 2011a), VI (Golubkov 1992, Bely 2011a), no exact locality (Gorbach 1973b): cor, lig, roo, ter Pic, Pin.
181. **Cladonia macilenta** Hoffm. – BR (Błoński 1888, Golubkov 1987, Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Savicz 1911, Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Tsurykau & Khranchankova 2009b, 2015, Tsurykau et al. 2009, 2012b, 2012c, Bely 2010a, 2011a, Golubkov 2011, Yatsyna 2013a, 2014d), GR (Golubkov 1987, 2014a, Yatsyna 2010g, 2013a), MI (Bachmann & Bachmann 1920, Oksner 1924, Golubkov & Vynaev 1981, Chernyshov 2003, Kobzar 2006, Yatsyna 2009c, 2010a, 2010f, 2013a, 2015c, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Kreyer 1913, Savicz & Savicz 1924, Savicz 1925, Tsetterman 1948, Yatsyna 2004, 2009b, 2013a, Bely 2011a), VI (Kreyer 1913, Tsetterman 1948, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010f, 2011a, 2013a, 2017, Bely 2011a), no exact locality (Gorbach 1973b, Yatsyna 2009e): cor, lig, mus, ter Bet, Pic, Pin, Pot, Qur; var. **bacillaris** (Genth) Schaer. – BR (Krawiec 1938, Golubkov 1987, Bely 2011a, Bely & Kudin 2016), GO (Savicz 1911, Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Golubkov 1992, Tsurykau 2005, Golubkov et al. 2007a, Tsurykau et al. 2009, 2012c, Bely 2010a, 2011a), GR (Golubkov 1987, 1992), MI (Tsetterman 1948, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1992, Yatsyna & Stefanovich 2005, Bely 2011a), MO (Savicz & Savicz 1924, Tsetterman 1948, Yatsyna 2004), VI (Kreyer 1913, Tsetterman 1948, Golubkov 1987, 1992, Golubkov & Kobzar 2007, Bely 2011a), no exact locality (Tomin 1937, Kobzar 1998): cor, lig, mus, ter Bet, Pic, Pin, Qur.
182. **Cladonia macrophylla** (Schaer.) Stenh. – MI (Golubkov 1992): ter.
183. **Cladonia merochlorophaea** Asahina – BR (Tsurykau & Golubkov 2015), GO (Tsurykau & Golubkov 2015, Tsurykau 2017a), GR (Tsurykau & Golubkov 2015), MI (Tsurykau & Golubkov 2015): cor, lig, ter Bet, Jun, Pin.
184. **Cladonia monomorpha** Aptroot, Sipman & van Herk – BR (Tsurykau & Golubkov 2015), GO (Tsurykau & Golubkov 2015), GR (Tsurykau & Golubkov 2015), MI (Tsurykau & Golubkov 2015), VI (Tsurykau & Golubkov 2015): sil, ter.
185. **Cladonia novochlorophaea** (Sipman) Brodo & Ahti – GO (Tsurykau & Golubkov 2015): cor, ter Pin.
186. **Cladonia norvegica** Tønsberg & Holien – GO (Yatsyna 2012e), MI (Bely 2011a, Yatsyna 2011c, 2015c, Golubkov et al. 2013), MO (Yatsyna 2011c), VI (Bely 2011a): cor, lig, mus, ter Bet, Pin, Qur.
187. **Cladonia parasitica** (Hoffm.) Hoffm. – BR (Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Golubkov 1987, 1992, 2007, Bely 2010a), GR (Golubkov 1987, 2014a, Valko 2008, Yatsyna 2010g), MI

- (Gorbach 1965d, Golubkov & Vynaev 1981, Golubkov 1992, Bely 2011a, Golubkov et al. 2013), MO (Savicz 1925), VI (Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2011a), no exact locality (Gorbach 1965d): cor, lig, ter Bet, Pic, Pin, Qur.
188. **Cladonia phyllophora** Hoffm. – BR (Krawiec 1938, Golubkov 1987, Yatsyna 2013a), GO (Savicz 1911, 1925, Golubkov & Vynaev 1981, Tsurykau 2005, Tsurykau et al. 2009, 2012c, Golubkov 2011, Bely 2011a), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a), MI (Bachmann & Bachmann 1920, Savicz 1925, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Chernyshov 2003, Kobzar 2006, Yatsyna 2009c, 2010a, Yurchenko 2011, Bely 2011a), MO (Savicz 1925, Tsetterman 1948), VI (Kreyer 1913, Bachmann & Bachmann 1920, Tsetterman 1948, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2010c, 2011a): lig, mus, ter.
189. **Cladonia pleurota** (Flörke) Schaer. – BR (Krawiec 1938, Golubkov 1987, Yatsyna 2013a), GO (Gorbach 1973b, Lapitskaya et al. 1979, Golubkov 1992), GR (Yatsyna 2010g, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Savicz 1925, Tsetterman 1948, Yatsyna 2009c, 2010a, 2013a), MO (Yatsyna 2009b), VI (Bachmann & Bachmann 1920, Yatsyna 2008, 2010c, Yurchenko 2011, Bely 2011a): lig, ter Pin.
190. **Cladonia pocillum** (Ach.) O.J. Rich. – GR (Golubkov 1993, 2014a, Yatsyna 2013d), MI (Golubkov 1993), VI (Golubkov 1993): cal, mus, sil.
191. **Cladonia polydactyla** (Flörke) Spreng. – GR (Bachmann & Bachmann 1920), MI (Bachmann & Bachmann 1920, Yatsyna 2009c), VI (Golubkov 1992): ter.
192. **Cladonia portentosa** (Dufour) Coem. – BR (Krawiec 1938), GO (Golubkov 2011), GR (Bachmann & Bachmann 1920), MI (Yatsyna 2009c), MO (Tsetterman 1948, Yatsyna 2004), VI (Tsetterman 1948, Kobzar 2006, Yatsyna 2010f) no exact locality (Gorbach 1973b, Bely & Vashkevich 2017): ter.
193. **Cladonia pyxidata** (L.) Hoffm. – BR (Tsurykau & Golubkov 2015), GO (Tsurykau & Golubkov 2015), GR (Tsurykau & Golubkov 2015), MI (Tsurykau & Golubkov 2015), VI (Tsurykau & Golubkov 2015): sil, ter. – Note: Only records of *C. pyxidata* published subsequent to Tsurykau and Golubkov (2015) are included here as the species was historically confused with several other members of the genus. Earlier reports could refer to other taxa and thus require confirmation via examination of the supporting vouchers.
194. **Cladonia ramulosa** (With.) J.R. Laundon – BR (Krawiec 1938, Kobzar 2006), GO (Ljubitzkaja 1914, Golubkov 1992, Bely 2011a), GR (Bachmann & Bachmann 1920, Golubkov 1987, Yatsyna 2013a), MI (Yatsyna 2009c, 2010a, Bely 2011a), MO (Yatsyna 2013a), VI (Golubkov 1992, Yatsyna 2008, 2010c, 2011a), no exact locality (Yatsyna 2009e): lig, mus, ter.
195. **Cladonia rangiferina** (L.) F.H. Wigg. – BR (Tessendorff 1922, Kobzar 2006, Yatsyna 2013a), GO (Savicz 1911, Wyssotzky et al. 1925, Ges 1960, Gorbach 1973a, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Tsurykau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsurykau et al. 2009, 2012b, 2012c, Golubkov 2011, Tsurykau & Tsurikova 2017), GR (Gilibert 1792, Błoński 1889, Bachmann & Bachmann 1920, Yatsyna 2010g, 2013a, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Chernyshov 2004a, 2004c, Yatsyna & Stefanovich 2005, Kobzar 2006, Yatsyna 2010a, 2013a, Yurchenko 2011), MO (Downar 1861, Kreyer 1913, Savicz 1925, Yatsyna 2009b, 2013a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Scherbakova 1982, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2013a), no exact locality (Tsetterman 1948, Kobzar 1998, Yatsyna 2009e, 2010f, 2011a, Bely 2013): cor, lig, mus, ter Bet, Pin.
196. **Cladonia rangiformis** Hoffm. – BR (Krawiec 1938, Gorbach 1973b), GO (Gorbach 1973b), GR (Kobzar 2006, Yatsyna 2016c), MI (Tsetterman 1948, Golubkov 1993), MO (Yatsyna 2013a), VI (Gorbach 1973b): mus, ter.
197. **Cladonia rei** Schaer. – BR (Kobzar 2006), GO (Golubkov & Vynaev 1981, Golubkov 1992, 2007, 2011, Tsurykau 2005, Tsurykau & Khranchankova 2010b, Tsurykau et al. 2012c, Tsurykau & Tsurikova 2017),

- GR (Golubkov 1992, 2014a), MI (Tsetterman 1948, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2004b, Yatsyna 2009c, Yurchenko 2011), MO (Tsetterman 1948), VI (Kreyer 1913, Tsetterman 1948, Golubkov 1992, Golubkov & Kobzar 2007, Bely 2011a), no exact locality (Golubkov 1987, Yatsyna 2009e): lig, ter.
198. **Cladonia scabriuscula** (Delise) Leight. – BR (Golubkov 1987), GO (Golubkov 1987), MI (Bely 2011a): cor, lig, mus Pic.
199. **Cladonia squamosa** (Scop.) Hoffm. – BR (Golubkov 1987, Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Golubkov & Vynaev 1981, Golubkov 1992, 2007, 2011, Tsurykau 2005, Tsurykau et al. 2009, 2012c, Bely 2010a), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a), MI (Bachmann & Bachmann 1920, Savicz & Savicz 1924, Savicz 1925, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Kobzar 2006, Yatsyna 2009c, 2010a, Bely 2011a), MO (Yatsyna 2004), VI (Kreyer 1913, Bachmann & Bachmann 1920, Tsetterman 1948, Insarov & Pchelkin 1982, Golubkov 1987, 1992, Golubkov & Kobzar 2007, Yatsyna 2011a, 2013a, Bely 2011a), no exact locality (Gorbach 1965d): cor, lig, mus, sil, ter Bet, Pic, Pin, Qur.
200. **Cladonia symphycarpia** (Flörke) Fr. – GR (Yatsyna 2015d): cal, mus.
201. **Cladonia stellaris** (Opiz) Pouzar & Vězda – BR (Kobzar 2006, Yatsyna 2013a), GO (Kobzar 2006, Golubkov 2007, Yatsyna 2013a), GR (Yatsyna 2013a), MI (Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Golubkov & Vynaev 1981, Yatsyna & Stefanovich 2005, Kobzar 2006, Yurchenko 2011, Yatsyna 2013a), MO (Kobzar 2006, Yatsyna 2009b), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Scherbakova 1982, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, Yurchenko 2011), no exact locality (Tsetterman 1948, Golubkov 1987, Kobzar 1998, Yatsyna 2009e, 2011a, Bely & Vashkevich 2017): mus, ter.
202. **Cladonia stygia** (Fr.) Ruoss – VI (Yatsyna 2011e): mus, ter.
203. **Cladonia subulata** (L.) Weber ex F.H. Wigg. – BR (Krawiec 1938, Golubkov 1987, Yatsyna 2013a), GO (Ges 1960, Golubkov & Vynaev 1981, Tsurykau 2005, Golubkov 2007, 2011, Tsurykau & Khranchankova 2009a, Tsurykau et al. 2009, 2012c, Bely 2011a, Tsurykau & Tsurikova 2017), GR (Gilbert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a), MI (Oksner 1924, Tsetterman 1948, Golubkov & Vynaev 1981, Chernyshov 2003, Kobzar 2006, Yatsyna 2009c, 2010a, 2013a, Yurchenko 2011, Bely 2011a), MO (Kreyer 1913, Yatsyna 2004, 2009b, 2013a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a), no exact locality (Yatsyna 2009e): cor, lig, mus, ter Pic.
204. **Cladonia sulphurina** (Michx.) Fr. – MI (Tsetterman 1948, Golubkov 1993), VI (Golubkov 1993): lig, ter.
205. **Cladonia tenuis** (Flörke) Harm. – GO (Tsurykau 2005), GR (Bachmann & Bachmann 1920), MI (Bachmann & Bachmann 1920, Golubkov & Yesis 1997a, Yatsyna 2009c, Yurchenko 2011), MO (Yatsyna 2004), VI (Scherbakova 1982, Kobzar 2006), no exact locality (Tomin 1937, Tsetterman 1948, Gorbach 1965d): ter, lig Pic.
206. **Cladonia turgida** (Ehrh.) Hoffm. – BR (Kobzar 2006, Yatsyna 2013a), GO (Tsurykau 2005, Tsurykau et al. 2009, 2012c, Yatsyna 2013a), GR (Bachmann & Bachmann 1920, Gorbach 1973a, Yatsyna 2013a, Golubkov 2014a), MI (Oksner 1924, Savicz 1925, Tsetterman 1948, Golubkov & Vynaev 1981, Kobzar 2006, Yatsyna 2009c, 2010a, 2013a), MO (Kreyer 1913, Tsetterman 1948, Kobzar 2006, Yatsyna 2009b, 2013a), VI (Kreyer 1913, Gorbach 1965d, Golubkov 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a, Bely 2011a), no exact locality (Golubkov 1987, Yatsyna 2009e): ter.
207. **Cladonia uncialis** (L.) F.H. Wigg. ssp. **uncialis** – BR (Golubkov 1987, Yatsyna 2013a), GO (Ges 1960, Golubkov 1992, 2007, Tsurykau 2005, Tsurykau et al. 2009, 2012c, Yatsyna 2013a), GR (Gilbert 1781, 1792, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a), MI (Bachmann & Bachmann 1920, Tsetterman 1948, Gorbach 1955, Golubkov & Vynaev 1981, Yatsyna & Stefanovich 2005, Yatsyna 2010a, 2013a),

MO (Tsetterman 1948, Yatsyna 2004, 2009b, 2013a), VI (Tsetterman 1948, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2013a), no exact locality (Kobzar 1998, Yatsyna 2009e, 2011a, Bely 2013): lig, ter; ssp. **biuncialis** (Hoffm.) M. Choisy – BR (Golubkov 1987), GR (Golubkov 1987, 2014a): ter.

208. **Cladonia verticillata** (Hoffm.) Schaer. – BR (Krawiec 1938, Golubkov 1987, Bely & Kudin 2016), GO (Savicz 1910, Wyssotzky et al. 1925, Gorbach 1973a, Golubkov & Vynaev 1981, Tsurykau 2005, Tsurykau et al. 2009, 2012c, Bely 2010a, 2011a, Yurchenko 2011, Golubkov 2011, Yatsyna 2013a), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g), MI (Bachmann & Bachmann 1920, Savicz & Savicz 1924, Savicz 1925, Golubkov & Vynaev 1981, Golubkov 1987, Chernyshov 2003, 2004a, Yatsyna 2009c, 2010a, 2013a, Bely 2011a), VI (Bachmann & Bachmann 1920, Golubkov 1987, 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a), no exact locality (Tsetterman 1948, Yatsyna 2009e): cor, lig, mus, ter Bet. – Note: All reports of *C. cervicornis* (Ach.) Flot. by Yatsyna (2008, 2011a, 2013a) are treated as referring *C. verticillata*.
209. **Clauzadea monticola** (Ach. ex Schaer.) Hafellner & Bellem. – GR (Bachmann & Bachmann 1920), VI (Kreyer 1913): cal, sil.
210. **Cliostomum corrugatum** (Ach.: Fr.) Fr. – GO (Yatsyna 2012e), GR (Yatsyna 2013d), MI (Yatsyna 2013c, 2014a, 2015c), no exact locality (Oksner 1968): cor Acp, Fre, Qur, Til.
211. **Cliostomum griffithii** (Sm.) Coppins – VI (Kobzar 2006, Yatsyna 2012g), no exact locality (Oksner 1968): cor Pin.
212. **Cliostomum leprosum** (Räsänen) Holien & Tønsberg – GO (Tsurykau & Khramchankova 2013), MI (Golubkov & Kukwa 2006): cor Pin.
213. **Coenogonium pineti** (Ach.) Lücking & Lumbsch – BR (Golubkov & Gagarina 2010, Bely 2011a, Yatsyna 2014d, Bely & Kudin 2016), GO (Tsurykau & Khramchankova 2009b, 2015, Bely 2010a, 2011a, Golubkov 2011), GR (Golubkov & Gagarina 2010, Bely 2011a, Yatsyna 2016c), MI (Gorbach 1955, Golubkov & Vynaev 1981, Golubkov & Gagarina 2010, Bely 2011a, Yatsyna 2011c, 2012b, 2012c, 2013b, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Bely 2011a, Yatsyna 2011c), VI (Gorbach & Osmolovskaya 1965, Yatsyna 2010c, 2017, Bely 2011a): cor, lig, mus Aln, Bet, Car, Pic, Pin, Pis, Qur, Sal, Sam, Til, Ulm.
214. **Collema flaccidum** (Ach.) Ach. – GR (Makarevicz 1960, Yurchenko 2011), MI (Golubkov 1987, Yurchenko 2011), VI (Yatsyna 2011e): cor, mus Pot, Qur.
215. **Collema nigrescens** (Huds.) DC. – BR (Krawiec 1938): cor Sal.
216. **Collema subflaccidum** Degel. – GR (Golubkov & Bludov 2005, Yatsyna 2015d): cal.
217. **Cresponea chloroconia** (Tuck.) Egea & Torrente – VI (Kreyer 1913): cor, lig Pic, Pin.
218. **Cyphelium notarisii** (Tul.) Blomb. & Forssell – GO (Tsurykau & Khramchankova 2009b, Golubkov 2011): cor, lig Pin.
219. **Cyphelium tigillare** (Ach.) Ach. – GO (Wyssotzky et al. 1925, Yatsyna & Motiejūnaite 2015), MI (Bachmann & Bachmann 1920, Yatsyna 2009d), MO (Yatsyna 2012a, 2013d), VI (Yatsyna 2011e): lig.
220. **Dermatocarpon miniatum** (L.) W. Mann. – MI (Golubkov & Yesis 1997a, Yatsyna & Motiejūnaite 2015), no exact locality (Gorbach 1965d): cal, sil.
221. **Dibaeis baemyces** (L. f.) Rambold & Hertel – BR (Krawiec 1938), GO (Savicz 1910, Golubkov 1992, 2011, Golubkov et al. 2007a), GR (Gilibert 1792, Bachmann & Bachmann 1920, Golubkov 2014a, Yatsyna 2010b), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Golubkov & Vynaev 1981, Golubkov 1992, Kobzar 2006, Yatsyna 2010b, 2010h, Golubkov et al. 2013), MO (Downar

- 1862), VI (Kreyer 1913, Golubkov 1992, Golubkov & Kobzar 2007, Bely 2011a, 2011e), no exact locality (Tomin 1937, Kobzar 1998): ter.
222. **Dimelaena oreina** (Ach.) Norman – GO (Yatsyna & Motiejūnaite 2015), no exact locality (Novruzov 1990): sil.
223. **Diploschistes muscorum** (Scop.) R. Sant. – GO (Golubkov 1993, Tsurykau 2011), GR (Golubkov 2011, Yatsyna 2013d), MI (Yurchenko 2011), VI (Golubkov 1993, 2011): cal, cor, mus, sil, ter Fre, Qur, on *Cladonia* spp.
224. **Diploschistes scruposus** (Schreb.) Norman – GO (Savicz 1911, Palamarchuk et al. 1975, Golubkov 1992), GR (Bachmann & Bachmann 1920, Golubkov 1992, 1997), MI (Golubkov & Vynaev 1981, Golubkov 1992), VI (Kobzar 1983, Golubkov 1996): sil, ter.
225. **Diplotomma alboatrum** (Hoffm.) Flot. – GR (Golubkov 1987), MI (Yatsyna & Yurchenko 2013), VI (Kreyer 1913, Yatsyna 2011e): cal, cor Acn, Pot.
226. **Diplotomma epipolium** (Ach.) Arnold – GO (Kobzar 2006), VI (Kobzar 2006): sil.
227. **Dufourea ligulata** (Körb.) Frödén, Arup & Søchting – GR (Golubkov 2013a), MI (Golubkov 2013a): cor Bet, Pon.
228. **Enchylium bachmanianum** (Fink) Otálora, P. M. Jørg. & Wedin – GO (Tsurykau 2017c): ter.
229. **Enchylium limosum** (Ach.) Otálora, P. M. Jørg. & Wedin – GO (Golubkov 2006), MI (Golubkov 2006), VI (Bachmann & Bachmann 1920, Golubkov 1993, Yatsyna 2010d, Yurchenko 2011): mus, ter.
230. **Enchylium tenax** (Sw.) Gray – GO (Golubkov 2006), GR (Golubkov 2006, Yatsyna 2016c), MI (Golubkov 2006, Yatsyna 2010a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Golubkov 1996, Yatsyna 2010c, 2010d): mus, ter.
231. **Endocarpon pusillum** Hedw. – VI (Golubkov 1993), MI (Yatsyna 2010a): mus, ter.
232. **Evernia divaricata** (L.) Ach. – BR (Krawiec 1938, Golubkov 1987, Kobzar 2006, Bely 2011a), GO (Golubkov 1992, Kravchuk 2000), MI (Bachmann & Bachmann 1920, Gorbach 1965d, Golubkov & Vynaev 1981, Golubkov & Yesis 1997a, Yatsyna 2010h, Yatsyna 2013e), MO (Savicz & Savicz 1924), VI (Kreyer 1913, Gorbach 1965d, Gorbach & Mashenkova 1967, Golubkov 1987, 1992, Bely 2008b, Yatsyna 2009e), no exact locality (Tomin 1937, Gorbach 1962, Golubkov 1992, Kravchuk 2001): cor Acp, Aln, Bet, Pic, Pin, Sal.
233. **Evernia mesomorpha** Nyl. – BR (Bely 2011b, Yatsyna 2013a), GO (Savicz 1911, Golubkov & Vynaev 1981, Golubkov 1992, 2011, Kravchuk 2001, Tsurykau 2005, Kobzar 2006, Tsurykau & Khramchankova 2008, Tsurykau et al. 2009, 2013b, Bely 2011a, Tsurykau & Tsurikova 2017), MI (Savicz 1925, Gorbach 1961, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna 2009d, 2010a, 2010f, 2013a, Bely 2011a, 2012c), MO (Kreyer 1913, Savicz 1925, Yatsyna 2004, 2009b, 2012a, 2013a), VI (Kreyer 1913, Gorbach 1965d, Golubkov 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010f, 2011a, 2017, Bely & Golubkov 2009b, Yurchenko 2011, Bely 2011a), no exact locality (Gorbach 1956, Golubkov 1992): cor, lig, ter Acp, Aln, Bet, Car, Fre, Pic, Pin, Pot, Qur, Sal, Sor, Til.
234. **Evernia prunastri** (L.) Ach. – BR (Tessendorff 1922, Golubkov 1987, Kobzar 2006, Bely 2011a, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Ges 1960, Palamarchuk et al. 1975, Gorbach & Getko 1978, Golubkov & Vynaev 1981, Kravchuk 2000, 2001, Tsurykau 2004, 2005, 2010, Timoshenkova & Tsurykau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, 2010a, 2015, Tsurykau et al. 2009, 2012b, 2013b, Bely 2010a, 2011a, Golubkov 2011, Sobchanka et al. 2012, Yatsyna 2014d, Tsurykau & Tsurikova 2017), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Kravchuk 2001, Golubkov & Khartanovich 2004a, 2004b, 2005, Kobzar

- 2006, Andreeva et al. 2006, Yatsyna 2010g, 2013a, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Kravchuk & Kakareka 1995, Kobzar 1997, Chernyshov 2003, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, Kobzar 2006, Bely 2010c, 2011a, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013), MO (Downar 1861, Kreyer 1913, Savicz & Savicz 1924, Savicz 1925, Kravchuk & Kakareka 1998, Yatsyna 2004, 2009b, Kobzar 2006, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Gorbach et al. 1982, Insarov & Pchelkin 1982, Golubkov 1991, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957, 1973b, Yatsyna 2009e): cor, fol, lig, sil Acd, Acp, Acr, Acs, Act, Ahi, Aln, Bet, Car, Coa, Fre, Jun, Lar, Mal, Pce, Pdi, Pdo, Pic, Pin, Poa, Pob, Poc, Pon, Pot, Ppa, Pyr, Qup, Qur, Sal, Sor, Til, Ulm, on *Lobaria pulmonaria*.
235. **Felipes leucopellaeus** (Ach.) Frisch & G. Thor – GR (Golubkov 1987), MI (Yatsyna 2014a), MO (Tomin 1956), VI (Yatsyna 2010c, Yurchenko 2011): cor Aln, Fre, Til.
236. **Fellhanera bouteillei** (Desm.) Vězda – GR (Bely & Golubkov 2012), MI (Bely 2011a, Yatsyna 2012d), MO (Savicz & Savicz 1924, Bely 2011a), VI (Bely 2011a, Yatsyna 2011e, 2017): cor, fol Pic.
237. **Fellhanera gyrophorica** Sérus., Coppins, Diederich & Scheid. – BR (Golubkov & Kukwa 2006), GR (Yatsyna 2016c), MI (Yatsyna 2014a), VI (Yatsyna 2017): cor Acp, Aln, Qur.
238. **Fellhanera subtilis** (Vězda) Diederich & Sérus. – BR (Yatsyna & Motiejūnaite 2015), GR (Yatsyna 2016c), MI (Bely 2011a, Yatsyna & Motiejūnaite 2015), VI (Yatsyna 2011a, Gapienko et al. 2014, Yatsyna 2017): cor, fol, mus Pic, Vac.
239. **Flavoparmelia caperata** (L.) Hale – BR (Golubkov 1987, Kobzar 2006, Bely 2011a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Ges 1960, Palamarchuk et al. 1975, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Golubkov 1987, 2011, Tsurykau 2004, 2005, 2017a, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, 2010a, 2015, Tsurykau et al. 2009, 2013b, Bely 2010a, 2011a, Yurchenko 2011, Yatsyna 2014d), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 1992, 2014a, Yatsyna 2016c), MI (Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1987, 1992, Kobzar 2006, Yatsyna 2006a, 2014a, 2015c, Bely 2010c, Golubkov et al. 2013), MO (Kreyer 1913, Savicz & Savicz 1924, Savicz 1925, Kobzar 2006, Yatsyna 2009b, 2012a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Gorbach 1978, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2010c, 2010d), no exact locality (Gorbach 1956, 1957, Golubkov 1992, Yatsyna 2009e): cor, mus Acp, Aln, Bet, Car, Coa, Fre, Pic, Pin, Pot, Qup, Qur, Sal, Sor, Til, Ulm.
240. **Flavoplaca citrina** (Hoffm.) Arup, Frödén & Søchting – GO (Tsurykau & Khramchankova 2011a), GR (Golubkov 1987, 1992, Yatsyna 2016c), MI (Yatsyna & Golubkov 2009, Yatsyna 2012b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013), VI (Golubkov 1987, 1991, 1992), no exact locality (Golubkov 1992): cal.
241. **Flavoplaca flavocitrina** (Nyl.) Arup, Frödén & Søchting – GO (Tsurykau & Kondratyuk 2011), GR (Yatsyna 2016c): cal.
242. **Fuscidea arboricola** Coppins & Tønsberg – GO (Tsurykau et al. 2014a): cor Pin.
243. **Fuscidea pusilla** Tønsberg – GO (Tsurykau et al. 2016a): cor Pin.
244. **Graphis scripta** (L.) Ach. – BR (Golubkov 1987, Kobzar 2006, Bely 2012b, 2016a, Yatsyna 2014d, Bely & Kudin 2016), GO (Savicz 1911, Wyssotzky et al. 1925, Ges 1960, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Tsurykau 2004, 2005, Golubkov et al. 2007a, Bely & Golubkov 2009a, Tsurykau et al. 2009, Bely 2010a, 2011a, Yurchenko 2011, Golubkov 2011), GR (Gilibert 1792, Golubkov 1987, 2014a, Kobzar 2006, Yatsyna 2010g, 2016c, Yurchenko 2011, Bely 2011a), MI (Bachmann & Bachmann 1920, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Yatsyna 2005, 2010a, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c,

- Kobzar 2006, Bely 2010c, 2011a, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Kobzar 2006, Yatsyna 2009b, 2012a, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Kobzar 2006, Yatsyna 2008, 2010c, 2010d, 2011a, 2011e, 2017, Bely & Golubkov 2009a, Yurchenko 2011, Bely 2011a), no exact locality (Gorbach 1956, 1957): cor Abi, Acp, Aln, Bet, Car, Coa, Fre, Pot, Qur, Sal, Sor, Til, Ulm.
245. **Gyalecta derivata** (Nyl.) H. Olivier – GO (Golubkov & Gagarina 2010): cor Pon, Sal.
246. **Gyalecta truncigena** (Ach.) Hepp – GR (Makarevicz 1960), VI (Yatsyna 2017): cor Pot.
247. **Gyalecta fagicola** (Hepp) Kremp. – MI (Yatsyna 2012c): cor Acp.
248. **Gyalolechia flavorubescens** (Huds.) Søchting, Frödén & Arup – GR (Yatsyna 2013d), VI (Bely 2015b): cor Pot.
249. **Gyalolechia flavovirescens** (Wulfen) Søchting, Frödén & Arup – GO (Golubkov 2007, Tsurykau & Khranchankova 2010b), GR (Yatsyna 2016c), MI (Golubkov & Vynaev 1981, Yatsyna 2014a), VI (Kreyer 1913, Gapienko et al. 2014): cal, sil.
250. **Haematomma ochroleucum** (Neck.) J.R. Laundon – VI (Insarov & Pchelkin 1982): cor Qur.
251. **Hazslinszkyia gibberulosa** (Ach.) Körb. – GO (Tsurykau & Khranchankova 2009b), no exact locality (Makarevicz 1977b): cor Acp.
252. **Hertelidea botryosa** (Fr.) Printzen & Kantvilas – VI (Insarov & Pchelkin 1982): cor Pin.
253. **Heterodermia speciosa** (Wulfen) Trevis. – VI (Kreyer 1913, Bely & Golubkov 2009b): cor, mus Acp, Pot. – Note: The report of this species by Golubkov and Kobzar (1996) is erroneous following Bely and Golubkov (2009b).
254. **Hydropunctaria rheitrophila** (Zschacke) C. Keller, Gueidan & Thüs – (Yatsyna 2013f): sil.
255. **Hypocenomyce scalaris** (Ach. ex Lilj.) M. Choisy – BR (Golubkov 1987, Kobzar 2006, Bely 2011a, 2012a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Ges 1960, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Kravchuk 2001, Tsurykau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khranchankova 2008, 2015, Tsurykau et al. 2009, 2012b, Bely 2010a, 2011a, Yurchenko 2011, Golubkov 2011, Sobchanka et al. 2012, Yatsyna 2014d, Tsurykau & Czarnota 2014, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Kravchuk 2001, Kobzar 2006, Yatsyna 2010g, Bely 2011a), MI (Bachmann & Bachmann 1920, Golubkov & Vynaev 1981, Kravchuk & Kakareka 1995, Kobzar 1997, 2006, Yatsyna 2005, 2009d, 2010a, 2010f, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Kravchuk & Kakareka 1998, Yatsyna 2004, 2009b, 2012a, 2013a, Kobzar 2006, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1978, Insarov & Pchelkin 1982, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2010f, 2011a, Bely 2011a): cor, lig Aln, Bet, Car, Lar, Pic, Pin, Pon, Pot, Qup, Qur, Til.
256. **Hypogymnia farinacea** Zopf – BR (Golubkov 1985, 1987), GO (Tsurykau 2017c), GR (Bachmann & Bachmann 1920), MI (Golubkov et al. 2007b), VI (Golubkov & Kobzar 2007, Golubkov et al. 2007b): cor, lig Aln, Bet, Pin, Qur.
257. **Hypogymnia physodes** (L.) Nyl. – BR (Tessendorff 1922, Suza 1928, Krawiec 1938, Golubkov 1987, Busko et al. 1995, Sidorovich & Gorbach 1998, Yurchenko & Golubkov 2003, Kobzar 2006, Bely 2011a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Savicz 1909, 1911, Kreyer 1913, Ljubitskaja 1914, Wysotsky et al. 1925, Ges 1960, Palamarchuk et al. 1975, Gorbach & Getko 1978, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Kiselev et al. 1986, Busko et al. 1995, Kravchuk 2000, 2001, Yurchenko & Golubkov 2003, Tsurykau 2004, 2005, 2010, Timoshenkova & Tsurykau 2005, Kobzar 2006, Golubkov et

- al. 2007a, Tsurykau & Khramchankova 2008, 2010a, 2014, 2015, Tsurykau et al. 2009, 2012b, 2013b, Bely 2010a, 2011a, Golubkov 2011, Sobchanka et al. 2012, Tsurykau & Czarnota 2014), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Gorbach & Getko 1978, Golubkov 1987, 2014a, Busko et al. 1995, Kravchuk 2001, Golubkov & Khartanovich 2004a, 2005, Kobzar 2006, Andreeva et al. 2006, Valko 2008, Yatsyna 2010g, 2013a, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Gorbach 1955, 1961, Boiko et al. 1981, Golubkov & Vynaev 1981, Kiselev et al. 1983, Shukanov et al. 1986, Golubkov & Rykovsky 1988, Busko et al. 1995, Kravchuk & Kakareka 1995, Vyazovskaya & Golubkov 1997, Kobzar 1997, 2006, Yurchenko & Golubkov 2003, Chernyshov 2003, 2004a, Yatsyna & Stefanovich 2005, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013a, 2013c, 2014a, 2014b, 2015c, Mavrishev & Dyukova 2008a, Bely 2010c, 2011a, Yurchenko 2011, Bely & Patapovich 2012, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Kreyer 1913, Savicz & Savicz 1924, Savicz 1925, Busko et al. 1995, Kravchuk & Kakareka 1998, Yatsyna 2004, 2009b, 2012a, 2013a, Kobzar 2006, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Gorbach & Getko 1978, Insarov & Pchelkin 1982, Kiselev et al. 1986, Golubkov 1991, Busko et al. 1995, Yurchenko & Golubkov 2003, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2010f, 2011a, 2013a, 2017, Bely & Golubkov 2008, Yurchenko 2011, Bely 2011a), no exact locality (Gorbach 1956, 1973b, Belomesyatseva 2004, Yatsyna 2009e): cal, cor, fol, lig, mus, sil, ter Abi, Acp, Acs, Act, Ahi, Aln, Bet, Car, Coa, Fre, Jun, Mal, Pce, Pdo, Pic, Pin, Poa, Pob, Poc, Pon, Pot, Ppa, Pyr, Qup, Qur, Sal, Sor, Til, Ulm, on *Lobaria pulmonaria*.
258. **Hypogymnia tubulosa** (Schaer.) Hav. – BR (Golubkov 1987, Bely 2011a, 2011b, Bely & Kudin 2016), GO (Savicz 1911, Golubkov & Vynaev 1981, Golubkov et al. 2007a, Tsurykau & Khramchankova 2007, 2008, 2010a, 2015, Tsurykau et al. 2009, 2013b, Bely 2010a, 2011a, Golubkov 2011), GR (Bachmann & Bachmann 1920, Golubkov et al. 2007b, Yatsyna 2010g, 2013a, Bely 2011a, Golubkov 2014a), MI (Gorbach 1955, Golubkov & Vynaev 1981, Kobzar 2006, Bely 2010c, 2011a, Yurchenko 2011, Yatsyna 2012c, 2013c, 2014a, 2015c, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Yatsyna 2009b, 2010a, Bely 2011a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Insarov & Pchelkin 1982, Golubkov 1991, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a, 2017, Bely & Golubkov 2008, Yurchenko 2011, Bely 2011a), no exact locality (Tomlin 1937, Gorbach 1956, 1957, Yatsyna 2009e): cor, lig, sil Acp, Acs, Aln, Bet, Car, Coa, Mal, Pdo, Pic, Pin, Pon, Pot, Ppa, Pyr, Qup, Qur, Sal, Sor, Til, Ulm.
259. **Hypogymnia vittata** (Ach.) Parrique – GR (Bachmann & Bachmann 1920), MI (Gorbach 1962), MO (Savicz 1925, Yatsyna 2004), VI (Insarov & Pchelkin 1982, Kravchuk 2001, Yatsyna 2013a, 2017): cor Aln, Bet, Pic, Pin.
260. **Hypotrachyna revoluta** (Flörke) Hale – BR (Tsurykau et al. 2015), GO (Tsurykau et al. 2015), GR (Tsurykau et al. 2015), MI (Tsurykau et al. 2015), VI (Tsurykau et al. 2015): cor Aln, Bet, Car, Pic, Pot, Qur, Sor. – Note: Only records of *H. revoluta* published subsequent to Tsurykau et al. (2015) are included here as the species was historically confused with *H. afrorevoluta*. Earlier reports could refer to either species and require confirmation via examination of the supporting vouchers.
261. **Hypotrachyna afrorevoluta** (Krog & Swinscow) Krog & Swinscow – BR (Tsurykau et al. 2015), GO (Tsurykau et al. 2015), GR (Tsurykau et al. 2015), MI (Tsurykau et al. 2015), VI (Tsurykau et al. 2015): cor Aln, Bet, Qur.
262. **Icmadophila ericetorum** (L.) Zahlbr. – BR (Błoński 1888), GO (Golubkov 1992), GR (Gilibert 1781, Błoński 1889), MI (Savicz & Savicz 1924, Savicz 1925, Golubkov 1987, 1992, Bely & Golubkov 2008), MO (Savicz 1925), VI (Kobzar 2006, Bely & Golubkov 2008, Bely 2011a): lig, mus, ter Qur.
263. **Imshaugia aleurites** (Ach.) S.F. Mey. – BR (Golubkov 1987, Bely 2011a, Yatsyna 2013a, Tsurykau et al. 2013b, Bely & Kudin 2016), GO (Ges 1960, Golubkov & Vynaev 1981, Golubkov 1992, 2007, Kravchuk 2001, Golubkov et al. 2007b, Tsurykau & Khramchankova 2007, Tsurykau et al. 2009, 2013b, Bely 2010a, 2011a, Yurchenko 2011, Yatsyna 2014d, Tsurykau & Tsurikova 2017), GR (Golubkov 1987, 2014a, Golubkov et al. 2007b, Yatsyna 2010g, Bely 2011a), MI (Savicz 1925, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna 2005, 2009d, 2010a, 2013a, 2015c, Bely 2010c, 2011a), MO (Savicz 1925, Yatsyna 2004, 2009b, 2013a), VI (Kreyer 1913, Gorbach 1965d, Insarov & Pchelkin 1982,

- Golubkov 1991, 1992, Kravchuk 2001, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2010f, 2011a, 2013a, 2017, Bely 2011a), no exact locality (Tomin 1937, Gorbach 1965d, Yatsyna 2009e): cor, lig Aln, Bet, Jun, Pic, Pin, Pot.
264. **Inoderma byssaceum** (Weigel) Gray – BR (Yatsyna 2014d), GR (Tomin 1956, Yatsyna 2016c), MI (Yatsyna 2014a, 2015c), MO (Kobzar 2006), VI (Yatsyna 2011e), no exact locality (Gorbach 1962): cor Acp, Qur, Til.
265. **Jamesiella anastomosans** (P. James & Vězda) Lücking, Sérus. & Vězda – MO (Yatsyna & Motiejūnaite 2015): lig.
266. **Lathagrium auriforme** (With.) Otálora, P.M. Jørg. & Wedin – VI (Bachmann & Bachmann 1920): ter.
267. **Lathagrium cristatum** (L.) Otálora, P.M. Jørg. & Wedin – GR (Yatsyna 2015d): cal.
268. **Lecania cyrtella** (Ach.) Th. Fr. – BR (Bely 2011a, Yatsyna 2014d), GO (Savicz 1911, Wyssotzky et al. 1925, Tsurukau & Khramchankova 2009b, Golubkov 2011), GR (Bachmann & Bachmann 1920, Golubkov & Khartanovich 2005, Golubkov 2014a), MI (Savicz 1925, Gorbach 1955, 1965b, Chernyshov 2003, Yurchenko 2011, Yatsyna 2012b, 2013b, 2013c, 2014a, 2014b, 2015c, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Savicz & Savicz 1924, Savicz 1925), VI (Kreyer 1913, Yatsyna 2011a, 2011e, 2017, Bely 2011a), no exact locality (Gorbach 1956, Makarevicz 1960): cor, lig Acp, Ahi, Aln, Bet, Fre, Pot, Qur, Til.
269. **Lecania cyrtellina** (Nyl.) Sandst. – GO (Golubkov 2011), MI (Yatsyna 2012d): cor Aln, Pot, Qur, Sal.
270. **Lecania dubitans** (Nyl.) A. L. Sm. – BR (Golubkov 1987), GO (Savicz 1911, Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Golubkov 2011), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a), MI (Savicz 1925, Gorbach 1955, 1965b, Golubkov & Vynaev 1981), MO (Savicz & Savicz 1924, Savicz 1925), VI (Kreyer 1913, Kobzar 2006), no exact locality (Gorbach 1956, Makarevicz 1960): cor Aln, Bet, Car, Pon, Pot, Pyr, Qup, Sal.
271. **Lecania erysibe** (Ach.) Mudd – MI (Yatsyna 2012d): cal.
272. **Lecania fuscella** (Schaer.) Körb. – VI (Kreyer 1913), MI (Gorbach 1955): cor, lig Pot.
273. **Lecania hutchinsiae** (Nyl.) A.L. Sm. – VI (Yatsyna 2013f): cor Aln.
274. **Lecania koerberiana** J. Lahm – GO (Savicz 1911, Wyssotzky et al. 1925, Golubkov 2011), MI (Savicz 1925, Gorbach 1955), MO (Savicz 1925): cor Pot.
275. **Lecania naegelii** (Hepp) Diederich & van den Boom – GO (Savicz 1910, Golubkov 1992, Golubkov et al. 2007a), GR (Golubkov 1987, Golubkov & Khartanovich 2005), MI (Gorbach 1955, Golubkov & Yesis 1997b, Kobzar 2006, Bely 2011a, Bely & Nikolaichuk 2012, Yatsyna 2012c, 2014a, Yatsyna & Yurchenko 2013), MO (Kreyer 1913), VI (Golubkov 1992, Gapienko et al. 2014): cor Acp, Coa, Fre, Pic, Pot, Qur, Sal.
276. **Lecania sylvestris** (Arnold) Arnold – GR (Yatsyna 2016c), MI (Yatsyna 2012d): cal.
277. **Lecanora albella** (Pers.) Ach. – BR (Golubkov 1987, Kobzar 2006), GO (Savicz 1911, Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Golubkov 1992), GR (Bachmann & Bachmann 1920), MI (Bachmann & Bachmann 1920, Gorbach 1955, 1965b, Golubkov 1987, 1992), MO (Savicz 1925), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2010c), no exact locality (Gorbach 1956): cor Acp, Aln, Bet, Car, Fre, Pin, Pot, Qur, Sal, Sor, Til.

278. **Lecanora albellula** Nyl. – GO (Tsurukau & Khramchankova 2007, Golubkov 2011), GR (Bachmann & Bachmann 1920, Makarevicz 1960): cor Pic, Pin.
279. **Lecanora allophana** Nyl. f. **allophana** – BR (Golubkov 1987, Kobzar 2006, Yatsyna 2013a, Bely 2016a, Bely & Kudin 2016), GO (Savicz 1909, Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Kravchuk 2001, Tsurukau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsurukau & Khramchankova 2009a, Tsurukau et al. 2009, Bely 2010a, 2011a, Golubkov 2011, Sobchanka et al. 2012, Yatsyna 2014d), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Golubkov & Khartanovich 2004a, 2005, Yatsyna 2010g, 2016c), MI (Savicz 1909, Bachmann & Bachmann 1920, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Golubkov 1992, Kravchuk & Kakareka 1995, Kobzar 1997, 2006, Kravchuk 2001, Chernyshov 2003, 2004a, Yatsyna 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Savicz & Savicz 1924, Savicz 1925, Kravchuk 2001, Yatsyna 2009b), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Insarov & Pchelkin 1982, Golubkov 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a, 2017, Bely 2015b), no exact locality (Gorbach 1956, 1957, Golubkov 1992): cor Acn, Acp, Aln, Bet, Car, Euo, Fre, Pic, Pin, Poc, Pon, Pot, Qur, Sal, Sor, Til, Ulm. f. **sorediata** Vain. – GO (Golubkov 2011): cor Qur. – Note: The report on calcareous stone by Yatsyna (2005) likely refers to another taxon and the supporting voucher should be reexamined.
280. **Lecanora argentata** (Ach.) Malme – BR (Gorbach 1970, Golubkov 1987, 2011, Yurchenko & Golubkov 2003), GO (Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Kobzar 2006, Tsurukau & Khramchankova 2007, Golubkov 2011, Yatsyna 2013a), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yurchenko & Golubkov 2003, Golubkov & Khartanovich 2004b, 2005), MI (Bachmann & Bachmann 1920, Gorbach 1955, 1965b, Golubkov & Vynaev 1981, Golubkov 1992, Kobzar 1997, 2006, Chernyshov 2004a, Yatsyna 2005), MO (Savicz 1925), VI (Gorbach 1978, Insarov & Pchelkin 1982, Golubkov 1992, Kobzar 2006, Yurchenko 2011, Bely 2011a), no exact locality (Makarevicz 1960, Golubkov 1992): cor, lig Acn, Acp, Aln, Bet, Car, Coa, Fre, Lon, Pic, Pin, Pon, Pot, Qup, Qur, Sor, Til.
281. **Lecanora carpinea** (L.) Vain. – BR (Krawiec 1938, Golubkov 1987, Kobzar 2006, Bely 2011a, Yatsyna 2014d, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Kravchuk 2001, Kobzar 2006, Golubkov et al. 2007a, Tsurukau & Khramchankova 2007, 2009a, Bely 2010a, 2011a, Golubkov 2011, Sobchanka et al. 2012, Tsurukau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Kravchuk 2001, Golubkov & Khartanovich 2004a, 2004b, 2005, Andreeva et al. 2006, Yatsyna 2010g, 2016c, Yurchenko 2011, Bely 2011a, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1992, Kobzar 1997, 2006, Kravchuk 2001, Chernyshov 2003, 2004a, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Bely 2010c, 2011a, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Kravchuk 2001, Kobzar 2006, Yatsyna 2009b, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1978, Insarov & Pchelkin 1982, Golubkov 1991, 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a, Yurchenko 2011, Bely 2011a), no exact locality (Gorbach 1956, 1957, 1962, Golubkov 1992): cor, lig Abi, Acp, Ahi, Aln, Bet, Car, Coa, Fre, Mal, Pce, Pic, Pin, Poa, Pon, Pot, Ppa, Pse, Pyr, Sal, Sor, Til, Qur, Ulm.
282. **Lecanora chlarotera** Nyl. – BR (Gorbach 1970, Golubkov 1987, Kobzar 2006, Yatsyna 2014d), GO (Golubkov & Vynaev 1981, Golubkov 1992, 2007, 2011, Kravchuk 2001, Kobzar 2006, Tsurukau & Khramchankova 2007), GR (Golubkov 1987, 2014a, Golubkov & Khartanovich 2004a, 2004b, 2005, Yatsyna 2010g), MI (Gorbach 1955, 1961, 1965b, 1970, Tomin 1956, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, 2004a, Yatsyna 2005, 2010a, 2012b, 2013b, 2014a, 2014b, 2015c, Kobzar 2006, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Gorbach 1970, Yatsyna 2009b, 2013a), VI (Gorbach & Mashenkova 1967, Gorbach 1978, Insarov & Pchelkin 1982, Golubkov 1991, 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2010c, 2017), no exact locality (Gorbach 1956, 1957, 1962, Golubkov 1992): cor Acp, Ahi, Aln, Bet, Car, Fre, Lon, Pic, Pin, Pon, Pot, Ppa, Qur, Sal, Sor, Til, Ulm.

283. **Lecanora compallens** van Herk & Aptroot – GO (Tsurykau et al. 2014a, Tsurykau & Czarnota 2014, Tsurykau & Khranchankova 2015, Tsurykau & Tsurikova 2017): cor Acp, Pin.
284. **Lecanora conizaeoides** Nyl. ex Cromb. – BR (Golubkov 1987), GO (Tsurykau & Khranchankova 2007), GR (Golubkov & Khartanovich 2004a), MI (Shukanov et al. 1986, Yatsyna 2013c): cor, lig Aln, Poc.
285. **Lecanora expallens** Ach. – BR (Gorbach 1973b), GO (Golubkov 1992, Kravchuk 2000, 2001, Tsurykau & Khranchankova 2015), MI (Shukanov et al. 1986, Kravchuk & Kakareka 1995, Kobzar 2006), MO (Kravchuk & Kakareka 1998), VI (Gorbach 1973b, Golubkov & Kobzar 1996), no exact locality (Tomin 1956, Gorbach 1962): cor Aln, Bet, Pin, Poc.
286. **Lecanora glabrata** (Ach.) Malme – BR (Golubkov 1987), GO (Wyssotzky et al. 1925, Ges 1960, Golubkov 1992), GR (Golubkov 1987, Yatsyna 2016c), MI (Kobzar 2006), MO (Savicz & Savicz 1924, Savicz 1925), VI (Golubkov 1992), no exact locality (Gorbach 1956, 1973b, Golubkov 1992): cor Acp, Car, Coa, Fre.
287. **Lecanora impudens** Degel. – BR (Golubkov 1987, Yurchenko 2011), GO (Golubkov 1992), GR (Golubkov 1987, 1992, Yurchenko 2011), MI (Golubkov 1992, Golubkov & Yesis 1997b), VI (Insarov & Pchelkin 1982): cor Aln, Bet, Pin, Pot, Ppa.
288. **Lecanora intumescens** (Rebent.) Rabenh. – GO (Golubkov 2011), GR (Bachmann & Bachmann 1920), VI (Golubkov 1992): cor Aln, Qur.
289. **Lecanora leptyroides** (Nyl.) G.B.F. Nilsson – BR (Gorbach 1973b), MI (Gorbach 1955, 1973b, Tomin 1956), VI (Gorbach & Mashenkova 1967, Gorbach 1973b, Kobzar 2006), no exact locality (Gorbach 1962): cor Aln, Bet, Pic, Pot, Qur, Til, Ulm.
290. **Lecanora phaeostigma** (Körb.) Almb. – GO (Golubkov 2011), GR (Bachmann & Bachmann 1920), VI (Golubkov 1992): cor Pin.
291. **Lecanora polytropia** (Hoffm.) Rabenh. – BR (Golubkov 1987), GO (Golubkov & Vynaev 1981), GR (Bachmann & Bachmann 1920, Yatsyna 2016c), MI (Oksner 1925, Golubkov & Vynaev 1981, Golubkov 1997, Chernyshov 2003), MO (Savicz 1925), VI (Kreyer 1913, Bachmann & Bachmann 1920, Golubkov 1992, Yurchenko 2011): sil.
292. **Lecanora populicola** (DC.) Duby – BR (Golubkov 1987), GO (Savicz 1911, Wyssotzky et al. 1925, Ges 1960, Golubkov 1992, 2011, Tsurykau & Khranchankova 2007), GR (Andreeva et al. 2006, Yurchenko 2011, Golubkov 2014a), MI (Gorbach 1955, 1965b, Golubkov 1992), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Gorbach 1978, Yatsyna 2017), no exact locality (Gorbach 1956, 1957, 1973b): cor Acp, Aln, Bet, Car, Pot, Qur, Sal, Sor.
293. **Lecanora pulicaris** (Pers.) Ach. – BR (Krawiec 1938, Golubkov 1987, Kobzar 2006, Bely 2011a, 2012b), GO (Savicz 1911, Kreyer 1913, Golubkov & Vynaev 1981, Golubkov 1992, Kravchuk 2001, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khranchankova 2007, 2015, Bely 2011a, Tsurykau et al. 2012b, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Yatsyna 2010g, Bely 2011a, Golubkov 2014a), MI (Savicz & Savicz 1924, Savicz 1925, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov 1992, Kravchuk & Kakareka 1995, Kobzar 1997, 2006, Kravchuk 2001, Chernyshov 2003, 2004a, Yatsyna 2009d, 2012b, 2013b, 2014a, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Kobzar 2006, Yatsyna 2004, Bely 2011a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Gorbach 1973b, 1978, Insarov & Pchelkin 1982, Golubkov 1991, 1992, Kobzar 2006, Golubkov & Kobzar 2007, Bely 2011a, Yatsyna 2017): cor, lig Acp, Aln, Bet, Fre, Jun, Pic, Pin, Pot, Pyr, Qup, Qur, Sal, Sor.
294. **Lecanora rupicola** (L.) Zahlbr. – BR (Golubkov 1987), GR (Golubkov 1992), MI (Golubkov 1987), VI (Golubkov 1987, Yatsyna 2011e): sil.

295. **Lecanora saligna** (Schrad.) Zahlbr. – VI (Yatsyna 2011a): lig. – Note: The reports of *Lecanora saligna* (Schrad.) Zahlbr. prior to Yatsyna (2011a) probably do not belong to that species as they were collected on *Alnus glutinosa* bark, and have a positive K⁺ yellow reaction (Gorbach 1970, Golubkov 2011). This species has negative spot reactions and is confined to lignum (Edwards et al. 2009). The specimens that serve as the basis for earlier reports should be reexamined to determine their current taxonomic status.
296. **Lecanora thysanophora** R.C. Harris – GO (Golubkov & Kukwa 2006, Tsurukau & Tsurikova 2017), GR (Golubkov & Kukwa 2006): cor Ahi, Aln, Qur, Til.
297. **Lecanora umbrina** (Ach.) A. Massal. – BR (Golubkov 1987), GO (Savicz 1909, Golubkov 1992), GR (Golubkov & Khartanovich 2004b), MI (Golubkov & Yesis 1997b, Chernyshov 2004a, Yatsyna 2013c), MO (Savicz & Savicz 1924, Savicz 1925), VI (Bachmann & Bachmann 1920, Kreyer 1913, Golubkov 1992): cal, cor, lig Aln, Pot, Sal, Sor.
298. **Lecanora varia** (Hoffm.) Ach. – BR (Suza 1928, Krawiec 1938, Golubkov 1987, Kobzar 2006, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Savicz 1910, Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Kobzar 2006, Golubkov et al. 2007a, Tsurukau & Khramchankova 2009a, Golubkov 2011), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g), MI (Bachmann & Bachmann 1920, Savicz 1925, Gorbach 1955, 1965b, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna 2009d, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2015c, Bely 2011a), MO (Savicz 1925, Yatsyna 2009b, 2012a, 2013a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Golubkov 1991, 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a, 2017): cor, lig Aln, Bet, Car, Lar, Mal, Pic, Pin, Pot, Pyr, Til, Qur, Sal.
299. **Lecidea fuscoatra** (L.) Ach. – BR (Golubkov 1987), GR (Yatsyna 2016c), MI (Golubkov et al. 2013), VI (Golubkov 1997): sil.
300. **Lecidea nylanderii** (Anzi) Th. Fr. – GO (Tsurukau 2013b, Tsurukau & Czarnota 2014, Tsurukau & Khramchankova 2015), VI (Insarov & Pchelkin 1982): cor Pin.
301. **Lecidea sphaerella** Hedl. – MI (Kobzar 2006), VI (Golubkov 1992): cor Pot.
302. **Lecidea turgidula** Fr. – MI (Yatsyna 2013a), no exact locality (Tomin 1939): lig.
303. **Lecidella anomaloides** (A. Massal.) Hertel & H. Kiliass – GO (Golubkov 2007), GR (Yurchenko 2011), MI (Golubkov & Vynaev 1981, Chernyshov 2003), VI (Bachmann & Bachmann 1920, Yurchenko 2011): sil.
304. **Lecidella carpathica** Körb. – VI (Kreyer 1913): sil.
305. **Lecidella elaeochroma** (Ach.) M. Choisy – BR (Bely 2011a, 2011b, Yatsyna 2013a, 2014d), GO (Golubkov et al. 2007a, Tsurukau & Khramchankova 2009a, Golubkov 2011), GR (Bachmann & Bachmann 1920, Golubkov & Khartanovich 2004a, 2004b, 2005, Golubkov 2014a, Yatsyna 2013a, 2016c), MI (Bachmann & Bachmann 1920, Yatsyna 2010a, 2012b, 2012c, 2013a, 2013b, 2013c, 2014a, 2014b, 2015c, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Bely 2011a, Yatsyna 2013a), VI (Bachmann & Bachmann 1920, Yurchenko 2011, Bely 2011a, Yatsyna 2013a, 2011e, 2017): cor Abi, Acp, Aln, Bet, Fre, Pic, Pon, Pot, Ppa, Pyr, Qur, Sor, Til, Pot.
306. **Lecidella euphorea** (Flörke) Hertel – BR (Suza 1928, Kobzar 2006, Bely 2011a, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Ges 1960, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Kravchuk 2001, Kobzar 2006, Tsurukau & Khramchankova 2009a, Tsurukau et al. 2009, Bely 2010a, 2011a, Tsurukau & Tsurikova 2017), GR (Golubkov & Khartanovich 2004a, Yurchenko 2011, Bely 2011a), MI (Gorbach 1955, 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Kravchuk & Kakareka 1995, Kobzar 1997, 2006, Chernyshov 2003, 2004a, Yatsyna 2005, Bely 2011a, Bely & Nikolaichuk 2012), MO (Savicz 1925, Kravchuk 2001, Kobzar 2006, Yatsyna 2009b, Bely 2011a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Gorbach 1978, Golubkov 1991, Kobzar 2006, Yatsyna 2008, 2010c, Bely

- 2011a), no exact locality (Gorbach 1956, 1957): cor, lig Acp, Aln, Bet, Car, Coa, Fre, Pic, Poa, Poc, Pon, Pot, Qur, Sal, Sor, Til, Ulm.
307. **Lecidella flavosorediata** (Vězda) Hertel & Leuckert – VI (Gapienko et al. 2014): cor Fre.
308. **Lecidella laureri** (Hepp) Körb. – BR (Golubkov 1987), GR (Golubkov 1987), MI (Golubkov 1987): cor, lig Car, Fre, Pot.
309. **Lecidella stigmatea** (Ach.) Hertel & Leuckert – GR (Yatsyna 2016c), MI (Gorbach 1970), VI (Kreyer 1913): cal, sil.
310. **Leimonis erratica** (Körb.) R. C. Harris & Lendemer – BR (Golubkov 1987), GR (Bachmann & Bachmann 1920), VI (Bachmann & Bachmann 1920): sil.
311. **Lepra albescens** (Huds.) Hafellner – BR (Tessendorff 1922, Golubkov 1987, Kobzar 2006, Bely 2011a, Bely & Kudin 2016), GO (Savicz 1909, Wyssotzky et al. 1925, Ges 1960, Gorbach 1973b, Golubkov & Vynaev 1981, Tsuryskau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsuryskau & Khramchankova 2009a, Tsuryskau et al. 2009, Bely 2010a, 2011a, Golubkov 2011, Yatsyna 2014d, Tsuryskau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Gorbach 1973b, Golubkov 1987, 2014a, Golubkov & Khartanovich 2004a, Bely 2011a), MI (Bachmann & Bachmann 1920, Gorbach 1961, 1965c, 1973b, Golubkov & Vynaev 1981, Chernyshov 2003, Yatsyna 2005, 2010a, 2013b, 2013c, 2014a, 2014b, 2015c, Kobzar 2006, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Yatsyna 2009b), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Gorbach 1978, Yatsyna 2008, 2010c, 2017, Bely 2011a), no exact locality (Gorbach 1973b, Yatsyna 2009e): cal, cor, mus Acp, Aln, Bet, Car, Fre, Pic, Pot, Qur, Sal, Sor, Til, Ulm.
312. **Lepra amara** (Ach.) Hafellner – BR (Golubkov 1987, Kobzar 2006, Yurchenko 2011, Bely 2011a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Savicz 1911, Wyssotzky et al. 1925, Ges 1960, Palamarchuk et al. 1975, Golubkov & Vynaev 1981, Kravchuk 2001, Tsuryskau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsuryskau et al. 2009, Bely 2010a, 2011a, Golubkov 2011, Tsuryskau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g, 2016c, Bely 2011a), MI (Gorbach 1955, 1961, Golubkov & Vynaev 1981, Kravchuk & Kakareka 1995, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Kobzar 2006, Bely 2010c, 2011a, Yurchenko 2011, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Yatsyna 2009b, 2012a, Bely 2011a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Gorbach 1978, Insarov & Pchelkin 1982, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010a, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957, 1973b): cor Acp, Aln, Bet, Car, Coa, Fre, Pic, Pin, Pot, Qur, Sal, Sor, Til, Ulm.
313. **Lepra multipuncta** (Turner) Hafellner – BR (Golubkov 1987), GO (Wyssotzky et al. 1925, Golubkov 2011, Tsuryskau et al. 2016a), GR (Golubkov 1987), MI (Bachmann & Bachmann 1920), MO (Savicz 1925), VI (Golubkov 1987), no exact locality (Gorbach 1973b): cor, mus Aln, Bet, Car, Sor, Til.
314. **Lepra ophthalmiza** (Nyl.) Hafellner – VI (Golubkov 1992): not indicated.
315. **Lepra trachythallina** (Erichsen) Lendemer & R.C. Harris – GO (Wyssotzky et al. 1925), MO (Savicz 1925), VI (Gorbach 1973b, Golubkov 1992), no exact locality (Gorbach 1956, 1957): cor Bet, Car, Fre.
316. **Lepraria eburnea** J.R. Laundon – BR (Golubkov & Kukwa 2006, Tsuryskau et al. 2016b), GR (Tsuryskau et al. 2016b): cor, ter Aln, Qur. – Note: Only records of *L. eburnea* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the genus without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
317. **Lepraria ecorticata** (J.R. Laundon) Kukwa – BR (Tsuryskau et al. 2016b), GO (Tsuryskau et al. 2016b), GR (Tsuryskau et al. 2016b): cor Fre, Pot, Til. – Note: Only records of *L. ecorticata* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the genus

without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.

318. **Lepraria elobata** Tønsberg – BR (Tsurykau et al. 2016b), GO (Tsurykau & Khramchankova 2011a, 2015, Tsurykau et al. 2012b, 2016b, Tsurykau & Tsurikova 2017), GR (Czyżewska & Kukwa 2005, Tsurykau et al. 2014b, 2016b), MI (Golubkov & Kukwa 2006, Tsurykau et al. 2016b), MO (Tsurykau et al. 2016b), VI (Golubkov & Kukwa 2006, Tsurykau et al. 2016b): cor, lig Bet, Pic, Pin, Pot, Qur. – Note: Only records of *L. elobata* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the genus without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
319. **Lepraria finkii** (B. de Lesd.) R.C. Harris – BR (Bely 2011a, Tsurykau et al. 2016b, Bely & Kudin 2016) GO (Bely 2010a, 2011a, Tsurykau 2013a, Tsurykau & Khramchankova 2015, Tsurykau et al. 2016b, Tsurykau & Tsurikova 2017), GR (Tsurykau et al. 2016b), MI (Bely 2011a, Tsurykau et al. 2016b), MO (Bely 2011a, Tsurykau et al. 2016b), VI (Bely 2011a, Tsurykau et al. 2016b): cor, cal, lig, ter Acp, Aln, Bet, Pic, Pin, Qur, Sor. – Note: Only records of *L. finkii* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the genus without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
320. **Lepraria incana** (L.) Ach. – BR (Golubkov & Kukwa 2006, Tsurykau et al. 2016b, Bely & Kudin 2016), GO (Golubkov & Kukwa 2006, Tsurykau & Khramchankova 2011a, 2015, Tsurykau et al. 2012b, 2016b, Tsurykau & Tsurikova 2017), GR (Golubkov & Kukwa 2006, Tsurykau et al. 2014b, 2016b), MI (Czyżewska & Kukwa 2005, Tsurykau et al. 2016b), MO (Tsurykau et al. 2016b), VI (Tsurykau et al. 2016b): cor, lig Abi, Acp, Aln, Bet, Car, Coa, Pic, Pin, Pot, Pyr, Qur, Sor, Til. – Note: Only records of *L. incana* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the genus without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
321. **Lepraria jackii** Tønsberg – BR (Golubkov & Kukwa 2006, Tsurykau et al. 2016b, Bely & Kudin 2016), GO (Tsurykau & Khramchankova 2011a, 2015, Tsurykau et al. 2012b, 2016b), GR (Golubkov & Kukwa 2006, Tsurykau et al. 2016b), MI (Golubkov & Kukwa 2006, Tsurykau et al. 2016b), MO (Tsurykau et al. 2016b), VI (Golubkov & Kukwa 2006, Tsurykau et al. 2016b): cor, lig Pic, Pin, Qur. – Note: Only records of *L. jackii* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the genus without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
322. **Lepraria neglecta** (Nyl.) Erichsen – VI (Golubkov & Kukwa 2006): sil. – Note: Only records of *L. neglecta* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the genus without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
323. **Lepraria rigidula** (B. de Lesd.) Tønsberg – GO (Tsurykau et al. 2016b): cor, ter Pin. – Note: Only records of *L. rigidula* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the genus without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
324. **Lepraria vouauxii** (Hue) R.C. Harris – BR (Tsurykau et al. 2016b), GO (Tsurykau et al. 2014a, 2016b), GR (Tsurykau et al. 2014b): cor Acp, Aln, Fre, Mal, Qur. – Note: Only records of *L. vouauxii* published with TLC data are included here as the species cannot be distinguished with certainty from other members of the genus without chemical analysis. Reports based on specimens that were not explicitly stated to have been studied with TLC require verification.
325. **Leptogium cyanescens** (Rabenh.) Körb. – MI (Yatsyna 2013b), no exact locality (Golubkov & Kobzar 2005): cor Til.

326. **Leptogium rivulare** (Ach.) Mont. – GO (Golubkov 1992): cor, lig Qur, Sal.
327. **Leptogium saturninum** (Dicks.) Nyl. – GR (Błoński 1889), MI (Bachmann & Bachmann 1920), MO (Savicz & Savicz 1924, Savicz 1925), VI (Kreyer 1913, Yatsyna 2017): cor Acp, Ber, Pot.
328. **Leptorhaphis atomaria** (Ach.) Szatala – GR (Bachmann & Bachmann 1920), VI (Yatsyna 2011a): cor Qur, Pot.
329. **#Leptorhaphis epidermidis** (Ach.) Th. Fr. – GO (Savicz 1911, Golubkov 1992, Yurchenko 2011), GR (Bachmann & Bachmann 1920), MI (Gorbach 1973b, Yatsyna 2015c), VI (Kreyer 1913, Kobzar 1983, Golubkov & Kobzar 2007): cor Bet.
330. **Leptorhaphis lucida** Körb. – VI (Kreyer 1913), no exact locality (Gorbach 1962): cor Bet, Pot.
331. **Lichenomphalia umbellifera** (L.: Fr.) Redhead, Lutzoni, Monclavo & Vilgalys – BR (Serzhanina 1984), GO (Serzhanina 1984, Bely & Yatsyna 2013), MI (Kuprevich 1931, Serzhanina 1984, Yatsyna & Golubkov 2009, Bely 2011a), VI (Bely 2011a, Yatsyna 2011e, 2017, Bely & Yatsyna 2013): lig, mus, roo, ter Pic.
332. **Lobaria pulmonaria** (L.) Hoffm. – BR (Tessendorff 1922, Golubkov 1987, Golubkov & Yatsyna 2010, Yatsyna 2013e, 2015e), GO (Wyssotzky et al. 1925, Ges 1960, Palamarchuk et al. 1975, Golubkov & Vynaev 1981, Golubkov 1992, 2010, Tsurykau & Khramchankova 2006, Golubkov & Yatsyna 2010, Yatsyna 2011d, 2015e), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 1992, 2014a, Yatsyna 2013e), MI (Oksner 1924, Savicz 1925, Gorbach 1955, 1961, 1965b, Golubkov & Vynaev 1981, Yatsyna 2006a, Golubkov & Yatsyna 2010, Yatsyna 2010h, 2015e, Bely 2010b), MO (Meier 1901, Savicz & Savicz 1924, Savicz 1925, Golubkov 1987, 1992, Yatsyna 2009b, Golubkov & Yatsyna 2010), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov & Kobzar 2005, Bely 2008b, Golubkov & Yatsyna 2010, Yatsyna 2011a, 2013e, 2015e, 2017), no exact locality (Gorbach 1957, 1973b): cor, lig, ter Acp, Aln, Bet, Car, Coa, Fre, Pic, Pot, Qup, Qur, Sal, Til, Ulm.
333. **Lobaria scrobiculata** (Scop.) DC. – MO (Savicz & Savicz 1924), no exact locality (Gorbach 1956, 1957): cor Acp, Car, Pic, Sal, Ulm. – Note: *Lobaria scrobiculata* was also reported by Palamarchuk et al. (1975) from Pripyatsky national park. However the report did not include any specific data, and no voucher has been found in GSU. Therefore the report seems to be doubtful and it is not included in the present list.
334. **Loxospora elatina** (Ach.) A. Massal. – GO (Golubkov 2011), MI (Tomin 1956), VI (Tomin 1956, Golubkov & Kukwa 2006, Bely 2011a): cor Bet, Fre, Pic.
335. **Megalospora sanguinaria** (L.) A. Massal. – GR (Gilibert 1781, 1792), VI (Tomin 1956, Golubkov 1993, Golubkov & Kobzar 2007, Bely 2011a, Yatsyna 2011e): cor, lig Pin.
336. **Megaspora verrucosa** (Ach.) Hafellner & V. Wirth – MI (Gorbach 1962), VI (Kreyer 1913): cor Pot.
337. **Melanelixia glabra** (Schaer.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch – GO (Tsurykau & Khramchankova 2008, 2010a), MI (Yatsyna 2012b, 2013b, 2014a): cor Acp, Fre, Til.
338. **Melanelixia glabratula** (Lamy) Sandler & Arup – BR (Golubkov 1987, Yurchenko & Golubkov 2003, Kobzar 2006, Bely 2011a, Tsurykau et al. 2013b, Yatsyna 2014d, Bely & Kudin 2016), GO (Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Golubkov 1987, 1992, 2007, 2011, Kravchuk 2001, Tsurykau 2005, Golubkov et al. 2007b, Tsurykau & Khramchankova 2008, Tsurykau et al. 2009, 2013b, Bely 2010a, 2011a), GR (Bachmann & Bachmann 1920, Golubkov 1992, 2014a, Golubkov & Khartanovich 2004b, Golubkov et al. 2007b, Yatsyna 2010g, 2016c, Bely 2011a), MI (Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1987, 1992, Kravchuk 2001, Chernyshov 2003, Mavrishev & Dyukova 2008b, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013), MO (Savicz & Savicz 1924, Savicz 1925, Kravchuk 2001, Kobzar 2006, Yatsyna 2009b, 2012a, Bely 2011a), VI (Gorbach & Mashenkova 1967,

Golubkov 1987, 1991, 1992, Kravchuk 2001, Golubkov & Kobzar 2007, Yatsyna 2010c, 2011a, 2017, Bely 2011a, Gapienko et al. 2014), no exact locality (Gorbach 1956, 1957): cor Acp, Acs, Aln, Bet, Car, Coa, Fre, Mal, Pdo, Pic, Pin, Pon, Pot, Qur, Sal, Sor, Til. – Note: Many of the records of *M. glabratula* included here were originally reported as *M. fuliginosa* because the two species were previously considered to be synonymous by many authors. Following Arup and Sandler Berlin (2011) the material is referred to *M. glabratula*.

339. **Melanelixia subargentifera** (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch – BR (Golubkov 1987, Yatsyna 2014d), GO (Savicz 1909, Kreyer 1913, Ges 1960, Golubkov 1987, 1992, Kravchuk 2001, Golubkov et al. 2007b, Tsurykau & Khramchankova 2007, 2008, Bely 2011a, Tsurykau et al. 2013b), GR (Golubkov 1987, 1992, 2014a, Golubkov & Khartanovich 2005, Yatsyna 2016c), MI (Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1987, 1992, Golubkov & Yesis 1997b, Chernyshov 2003, Yurchenko 2011, Yatsyna 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Golubkov et al. 2007b, Yatsyna 2009b, Bely 2011a), VI (Kreyer 1913, Golubkov 1992, Kravchuk 2001, Kobzar 2006, Yatsyna 2010c, 2011a, Gapienko et al. 2014), no exact locality (Gorbach 1956, Golubkov 1992, Yatsyna 2009e): cor, lig Acp, Aln, Ahi, Bet, Car, Fre, Mal, Pce, Pic, Poa, Poc, Pon, Pot, Qur, Sal, Til, Ulm.
340. **Melanelixia subaurifera** (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch – BR (Suza 1928, Krawiec 1938, Golubkov 1987, Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khramchankova 2007, 2008, 2010a, 2015, Tsurykau et al. 2009, 2013b, Bely 2010a, 2011a, Tsurykau 2010, Yurchenko 2011, Golubkov 2011), GR (Bachmann & Bachmann 1920, Golubkov & Khartanovich 2004a, 2005, Yatsyna 2010g, 2013a, 2016c, Bely 2011a, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna 2005, 2010a, 2014a, 2015c, Kobzar 2006, Bely 2010c, 2011a, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Yatsyna 2009b, Bely 2011a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1991, 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2009a, 2010c, 2010d, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957, Golubkov 1992, Yatsyna 2009e): cor, lig Acd, Acp, Acs, Ahi, Aln, Bet, Car, Coa, Fre, Jun, Lar, Mal, Pce, Pdo, Pic, Pin, Pob, Poc, Pon, Pot, Ppa, Pyr, Qup, Qur, Sal, Sor, Til, Ulm, on *Lobaria pulmonaria*.
341. **Melanohalea elegantula** (Zahlbr.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch – BR (Bely 2011b), MI (Bely 2011a, Yatsyna 2014a), VI (Insarov & Pchelkin 1982, Bely 2011a): cor Pic, Poa, Qur.
342. **Melanohalea exasperata** (De Not.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch – BR (Filipowicz 1881, Suza 1928, Krawiec 1938, Golubkov 1987), GO (Savicz 1909, Kreyer 1913, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Golubkov 1992, Kravchuk 2001, Tsurykau & Khramchankova 2007, 2008, 2010a, Tsurykau et al. 2009, 2013b, Yatsyna 2013a), GR (Bachmann & Bachmann 1920, Golubkov 1987, 1992, 2014a), MI (Bachmann & Bachmann 1920, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1992, Mavrishev & Dyukova 2008a, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Kobzar 2006, Yatsyna 2009b, Bely 2011a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1992, Kravchuk 2001, Yatsyna 2010c, 2011a, Bely 2011a), no exact locality (Gorbach 1956, 1957, Yatsyna 2009e): cor, lig Acp, Acs, Aln, Bet, Car, Fre, Pic, Pin, Poa, Pon, Pot, Pyr, Qur, Sal, Sor, Til, Ulm.
343. **Melanohalea exasperatula** (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch – BR (Golubkov 1987, Yurchenko & Golubkov 2003, Yurchenko 2011, Bely 2011a, Yatsyna 2014d, Bely & Kudin 2016), GO (Savicz 1911, Kreyer 1913, Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Golubkov 1987, 2011, Kravchuk 2001, Tsurykau 2005, 2010, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, 2010a, 2015, Tsurykau et al. 2009, 2013b, Bely 2010a, 2011a), GR (Bachmann & Bachmann 1920, Golubkov 1992, 2014a, Kravchuk 2001, Yurchenko & Golubkov 2003, Golubkov & Khartanovich 2004a, Andreeva et al. 2006, Golubkov et al. 2007b, Yatsyna 2010g, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz 1925, Gorbach 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Golubkov 1987, 1992, Kravchuk & Kakareka 1995, Yurchenko & Golubkov 2003, Chernyshov

2003, 2004a, Yatsyna & Stefanovich 2005, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Bely 2010c, 2011a, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Savicz & Savicz 1924, Savicz 1925, Kravchuk 2001, Yatsyna 2009b, 2013a, Bely 2011a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1992, Yurchenko & Golubkov 2003, Kobzar 2006, Yatsyna 2008, 2010c, 2010d, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1957, 1962, Yatsyna 2009e): cor, fol, lig, met, sil Acd, Acp, Acs, Ahi, Aln, Bet, Car, Euo, Fre, Lar, Mal, Mas, Pce, Pdi, Pdo, Pic, Pin, Poa, Pob, Poc, Pon, Pot, Qur, Sal, Sor, Til, Ulm, on *Lobaria pulmonaria*.

344. **Melanohalea olivacea** (L.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch – BR (Krawiec 1938, Kobzar 2006), GO (Savicz 1909, Ges 1960, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Kravchuk 2001, Kobzar 2006, Tsurykau & Khramchankova 2007, 2008, 2010a, Tsurykau et al. 2009, 2013b, Yurchenko 2011, Golubkov 2011, Yatsyna 2014d), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Yatsyna 2010g, 2013a, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1992, Kobzar 2006, Mavrishev & Dyukova 2008a, Bely 2011a), MO (Savicz 1925, Yatsyna 2009b, 2013a) VI (Kreyer 1913, Gorbach & Mashenkova 1967, Inсарov & Pchelkin 1982, Golubkov 1991, 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957, 1962, Golubkov 1992, Yatsyna 2009e): cor, ter Acp, Acs, Aln, Bet, Car, Fre, Mal, Pce, Pic, Pon, Pot, Pyr, Qur, Sal, Sor, Til, Ulm. – Note: The report on stone by Bachmann and Bachmann (1920) likely refers to another taxon. As the Bachmann herbarium was destroyed during World War II, there is no chance to reexamine the supporting voucher and thus the report is not included in the present list.
345. **Melanohalea septentrionalis** (Lyngé) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch – VI (Bely 2011a): cor Bet.
346. **Menegazzia terebrata** (Hoffm.) A. Massal. – BR (Golubkov 1986, Yatsyna 2013e, 2014d), GO (Wyssotzky et al. 1925, Golubkov 1986, Yatsyna 2011d), GR (Golubkov 1986, 2014a, Yatsyna 2009e), MI (Gorbach 1965d, Golubkov 1987, 1992, Bely 2010b, 2011a, 2014, Yatsyna 2013e, 2015c, Golubkov et al. 2013), MO (Savicz & Savicz 1924, Savicz 1925, Golubkov 1992), VI (Golubkov 1986, 1987, Golubkov & Kobzar 2007, Bely 2008b, 2010b, Yatsyna 2013e, 2017), no exact locality (Gorbach 1957, 1962): cor Aln, Bet, Car, Pic, Pin, Pon, Pot, Qur.
347. **Micarea cinerea** (Schaer.) Hedl. – GO (Golubkov & Vynaev 1981), GR (Bachmann & Bachmann 1920), MI (Golubkov & Yesis 1997a): cor Pin, Sor.
348. **Micarea denigrata** (Fr.) Hedl. – GO (Yatsyna 2013d, Tsurykau & Czarnota 2014), GR (Bachmann & Bachmann 1920, Makarevicz 1960), MI (Bachmann & Bachmann 1920, Yatsyna & Yurchenko 2013): cor, lig Pin, Jun.
349. **Micarea elachista** (Körb.) Coppins & R. Sant. – GO (Tsurykau & Czarnota 2014): cor Pin.
350. **Micarea lynceola** (Th. Fr.) Palice – GR (Bachmann & Bachmann 1920): sil.
351. **Micarea melaena** (Nyl.) Hedl. – BR (Bely 2011a), GO (Tsurykau & Czarnota 2014), MI (Yatsyna 2015c), MO (Yatsyna 2013a), VI (Bely 2011a, Yatsyna 2017): cor, lig Pic, Pin.
352. **Micarea micrococca** (Körb.) Gams ex Coppins – GO (Tsurykau & Czarnota 2014), VI (Gapienko et al. 2014): cor Pin.
353. **Micarea misella** (Nyl.) Hedl. – GO (Tsurykau & Czarnota 2014), VI (Gapienko et al. 2014, Yatsyna 2017): cor, lig Pic, Pin.
354. **Micarea nitschkeana** (J. Lahm ex Rabenh.) Harm. – GO (Golubkov 2011, Tsurykau 2017b), GR (Bachmann & Bachmann 1920), MI (Bachmann & Bachmann 1920, Savicz 1925): cor Aln, Bet, Pin, Pot.
355. **Micarea peliocarpa** (Anzi) Coppins – GO (Yatsyna 2012d), MI (Yatsyna 2012d): cor Pin.

356. **Micarea prasina** Fr. – BR (Golubkov 1987), GO (Golubkov & Vynaev 1981, Tsurykau & Khranchankova 2011a), MI (Yatsyna 2010f, 2015c, Yatsyna & Yurchenko 2013), MO (Yatsyna 2013a), VI (Kobzar 2006, Yatsyna 2010c, 2011a, 2017, Yurchenko 2011, Bely 2011a): cor, lig Fre, Jun, Pic, Pin, Qur.
357. **#Microcalicium arenarium** (Hampe ex A. Massal.) Tibell – BR (Golubkov 1987): roo.
358. **#Microcalicium disseminatum** (Ach.) Vain. – BR (Golubkov 1987), GR (Golubkov 1987), MI (Golubkov 1987, Yatsyna 2010f), VI (Golubkov 1987, Yatsyna 2017): cor, lig Pic, Pin, Qur.
359. **Montanelia soreliata** (Ach.) Divakar, A. Crespo, Wedin & Essl. – BR (Golubkov 1992), GO (Kobzar 2006), GR (Golubkov & Kobzar 2005), MI (Bachmann & Bachmann 1920, Gorbach 1973b, Golubkov 1992, Chernyshov 2003, Golubkov et al. 2007b, Yurchenko 2011), MO (Savicz 1925), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Bely 2008b), no exact locality (Golubkov 1992): sil.
360. **Mycobilimbia carnealbida** (Müll. Arg.) S. Ekman & Printzen – BR (Yatsyna 2013f), GR (Yatsyna 2013f, 2016c), MI (Yatsyna 2010a), VI (Kreyer 1913, Yatsyna 2011a, 2013f): mus, ter, on *Peltigera rufescens*.
361. **Mycobilimbia pilularis** (Körb.) Hafellner & Türk – BR (Kobzar 2006), MI (Golubkov & Vynaev 1981), VI (Golubkov 1992): cor, ter Acp.
362. **+Mycocalicium subtile** (Pers.) Szatala – BR (Bely & Golubkov 2009a, Bely 2011b), GO (Golubkov 1992, Yatsyna 2012e), GR (Kobzar 2006), MI (Golubkov & Vynaev 1981, Golubkov & Yesis 1997a, Kobzar 2006, Yatsyna 2009d, 2014a, 2015c, Bely & Golubkov 2009a), VI (Kreyer 1913, Bely & Golubkov 2009a, Yatsyna 2010c, 2017, Bely 2011a), no exact locality (Golubkov & Titov 1990): lig Pic, Pin.
363. **+Mycomicrothelia melanospora** (Hepp) D. Hawksw. – VI (Kreyer 1913, Yatsyna 2011e): cor Bet.
364. **Myriolecis crenulata** (Ach.) Śliwa, Zhao Xin & Lumbsch – BR (Golubkov 1987, Yatsyna 2014d), GO (Tsurykau & Khranchankova 2007, 2009a, Golubkov 2011, Sobchanka et al. 2012, Tsurykau & Tsurikova 2017), GR (Golubkov 1987, 2014a, Yatsyna 2016c), MI (Golubkov & Vynaev 1981, Golubkov 1992, 1997, Chernyshov 2003, 2004a, Yatsyna 2007a, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013), VI (Kreyer 1913, Golubkov 1992, Yatsyna 2008, 2011a, 2011e, Yurchenko 2011): cal, sil. – Note: The report on lignum by Kreyer (1913) likely refers to another taxon and the supporting voucher should be reexamined.
365. **Myriolecis dispersa** (Pers.) Śliwa, Zhao Xin & Lumbsch – BR (Golubkov 1987), GO (Savicz 1911, Golubkov et al. 2007a, Tsurykau & Khranchankova 2007, 2009a, Golubkov 2011, Sobchanka et al. 2012, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Yatsyna 2010g, Golubkov 2014a), MI (Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2004a, Yatsyna 2012b, 2012c), MO (Yatsyna 2009b), VI (Kobzar 1983, Kravchuk 2001, Yatsyna 2011a, 2011e): cal, sil, ter.
366. **Myriolecis hagenii** (Ach.) Śliwa, Zhao Xin & Lumbsch – GO (Kravchuk 2000, 2001, Golubkov 2007, Tsurykau & Khranchankova 2007, 2009a, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, Kravchuk 2001, Golubkov & Khartanovich 2004a, 2004b, 2005), MI (Kravchuk & Kakareka 1995, Chernyshov 2003, 2004a, Bely 2011a, Bely & Nikolaichuk 2012), MO (Kravchuk & Kakareka 1998), VI (Bachmann & Bachmann 1920, Kobzar 1983, Golubkov 1987, 1992): cor, lig Abi, Acp, Ahi, Aln, Fre, Pic, Pon, Pot, Qur, Sor, Til, Ulm.
367. **Myriolecis sambuci** (Pers.) Clem. – MI (Yatsyna 2005), VI (Kreyer 1913), no exact locality (Gorbach 1962): cor, lig Pot.
368. **#Naetrocymbe punctiformis** (Pers.) R. C. Harris – GR (Bachmann & Bachmann 1920), MI (Gorbach 1955), MO (Kreyer 1913), VI (Kreyer 1913, Yurchenko 2011, Yatsyna 2011e): cor Aln, Bet, Pot, Qur.

369. **Nephroma arcticum** (L.) Torss. – MI (Golubkov & Kobzar 2005): ter.
370. **Nephroma bellum** (Spreng.) Tuck. – MI (Savicz 1925): cor Pic.
371. **Nephroma parile** (Ach.) Ach. – MI (Savicz 1925): cor Qur.
372. **Nephroma resupinatum** (L.) Ach. – MI (Savicz 1925): cor Pic. – Note: The report by Yatsyna (2009b) may be erroneous because the species was not listed in later papers (e.g. Yatsyna 2015e). The supporting voucher should be reexamined before the report is included here.
373. **Nephromopsis chlorophylla** (Willd.) Divakar, Crespo & Lumbsch – BR (Krawiec 1938, Golubkov 1987, Bely 2011a, Yatsyna 2011b, Tsurikova 2013, Bely & Kudin 2016), GO (Savicz 1911, Ges 1960, Golubkov & Vynaev 1981, Kravchuk 2001, Tsurykau & Khranchankova 2007, 2008, Tsurykau et al. 2009, Yatsyna 2011b, Golubkov 2011, Tsurikova 2013), GR (Bachmann & Bachmann 1920, Yatsyna 2009e, 2010g, 2011b, 2016c, Bely 2011a, Golubkov 2014a), MI (Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1992, Vyazovskaya & Golubkov 1997, Kravchuk 2001, Chernyshov 2003, Yatsyna 2005, 2010a, 2011b, 2014a, 2015c, Bely 2010c, 2011a, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013), MO (Savicz & Savicz 1924, Savicz 1925, Kravchuk 2001, Yatsyna 2009b, 2011b), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov & Kobzar 2007, Yatsyna 2008, 2009e, 2010c, 2010d, 2011a, 2011b, 2017, Bely 2011a): cor, lig, ter Abi, Acp, Aln, Bet, Car, Jun, Pce, Pic, Pin, Pon, Pot, Pyr, Qup, Qur, Sal, Til.
374. **Nephromopsis ciliaris** (Ach.) Hue – no exact locality (Tomin 1937): cor.
375. **Ochrolechia alboflavescens** (Wulfen) Zahlbr. – GR (Kukwa 2011), MI (Kukwa 2011), VI (Kukwa 2011): cor Bet, Pin, Qur.
376. **Ochrolechia arborea** (Kreyer) Almb. – BR (Golubkov 1987), GO (Kreyer 1913, Ljubitzkaja 1914, Ges 1960, Golubkov 2011, Bely 2011a, Tsurykau et al. 2014a), GR (Golubkov 2014a), MI (Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1992, Bely 2011a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1992), no exact locality (Gorbach 1956, 1957): cor, lig Acp, Aln, Car, Fre, Pic, Pin, Pot, Qur, Sal, Sor, Til.
377. **Ochrolechia bahusiensis** H. Magn. – MI (Tsurykau et al. 2014a): cor Bet.
378. **Ochrolechia microstictoides** Räsänen – GO (Tsurykau 2017c), MI (Tomin 1956), VI (Gorbach 1973b): cor Bet, Pin.
379. **Ochrolechia pallescens** (L.) A. Massal. – BR (Golubkov 1987), GO (Savicz 1911, Wyssotzky et al. 1925, Yurchenko 2011, Tsurykau et al. 2014a), GR (Golubkov 1987, Yurchenko & Golubkov 2003), VI (Kreyer 1913, Golubkov 1992, Golubkov & Kobzar 2007): cor, lig Aln, Bet, Pin, Qur, Til.
380. **Opegrapha herbarum** Mont. – GO (Tsurykau 2012): cor Pin.
381. **Opegrapha niveoatra** (Borrer) J.R. Laundon – BR (Golubkov 1987), GR (Golubkov 1987), no exact locality (Gorbach 1973b): cor Car, Pot, Qur, Sal, Sor.
382. **Opegrapha vermicellifera** (Kunze) J.R. Laundon – BR (Golubkov 1987), GR (Golubkov 1987), MI (Yatsyna 2012c), no exact locality (Gorbach 1973b): cor Acp, Car, Fre, Qur, Sal, Ulm.
383. **Opegrapha vulgata** (Ach.) Ach. – BR (Golubkov 1987): cor Acp, Aln, Car.
384. **Palicella filamentosa** (Stirt.) Rodr. Flakus & Printzen – BR (Filipowicz 1881, Suza 1928, Golubkov 1987, Kobzar 2006, Yurchenko 2011, Bely 2011a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Savicz 1911, Kreyer 1913, Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Tsurykau &

- Khramchankova 2007, 2009a, Tsurukau et al. 2009, Bely 2010a, 2011a, Golubkov 2011, Sobchanka et al. 2012, Yatsyna 2013a, Tsurukau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Golubkov & Khartanovich 2004a, 2004b, 2005, Andreeva et al. 2006, Yatsyna 2010g, Bely 2011a), MI (Bachmann & Bachmann 1920, Gorbach 1961, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, 2004a, 2004c, Yatsyna 2005, 2009d, 2012b, 2012c, 2013b, 2013c, 2014a, 2015c, Kobzar 2006, Yurchenko 2011, Bely 2011a, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Yatsyna 2009b, 2012a, Bely 2011a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Gorbach 1978, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2010c, 2010f, 2011a, 2017, Yurchenko 2011, Bely 2011a), no exact locality (Belomesyatseva 2004): cor, lig Aln, Bet, Car, Coa, Fre, Jun, Pic, Pin, Pot, Pyr, Sal, Sor, Qur, Til, Ulm.
385. **Parmelia fraudans** (Nyl.) Nyl. – GR (Golubkov 1993, Golubkov et al. 2007b), MI (Golubkov 1993, Yatsyna 2010a), VI (Golubkov & Kobzar 1996, Golubkov et al. 2007b): sil.
386. **Parmelia saxatilis** (L.) Ach. – GO (Gorbach 1973b), GR (Gilibert 1781, Bachmann & Bachmann 1920), MI (Bachmann & Bachmann 1920, Yatsyna & Stefanovich 2005), MO (Savicz 1925), VI (Kreyer 1913, Bachmann & Bachmann 1920, Golubkov 1996, Yatsyna 2011c): sil. – Note: Ongoing revision of specimens previously identified as *P. saxatilis* has revealed that all corticolous records belong to other species (Tsurukau et al. in prep.).
387. **Parmelia serrana** A. Crespo, M.C. Molina & D. Hawksw. – BR (Yatsyna 2013d, Bely 2016c), GR (Yatsyna 2013d), MI (Yatsyna 2014a), MO (Yatsyna 2013d), VI (Yatsyna 2013d, Bely 2016c): cor, lig Car, Pic, Til.
388. **Parmelia sulcata** Taylor – BR (Tessendorff 1922, Krawiec 1938, Golubkov 1987, Yurchenko & Golubkov 2003, Kobzar 2006, Bely 2011a, Tsurikova 2013, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Ges 1960, Danilchuk et al. 1976, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Kravchuk 2001, Yurchenko & Golubkov 2003, Tsurukau 2004, 2005, 2010, Kobzar 2006, Golubkov et al. 2007a, Tsurukau & Khramchankova 2008, 2009a, 2010a, 2015, Tsurukau et al. 2009, 2012b, 2013a, Bely 2010a, 2011a, Golubkov 2011, Sobchanka et al. 2012, Tsurikova 2013), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Golubkov & Khartanovich 2004a, 2004b, 2005, Kobzar 2006, Andreeva et al. 2006, Valko 2008, Yatsyna 2010g, 2013a, 2016c, Yurchenko 2011, Bely 2011a, Tsurukau 2017a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Golubkov 1992, Kravchuk & Kakareka 1995, Kobzar 1997, 2006, Yurchenko & Golubkov 2003, Chernyshov 2003, 2004a, Yatsyna 2005, 2009d, 2010a, 2010f, 2012b, 2012c, 2013b, 2013c, 2014c, 2014b, Mavrishev & Dyukova 2008a, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Savicz & Savicz 1924, Savicz 1925, Kravchuk & Kakareka 1998, Kobzar 2006, Yatsyna 2009b, 2012a, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Gorbach et al. 1982, Insarov & Pchelkin 1982, Golubkov 1991, 1992, Yurchenko & Golubkov 2003, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a, 2013a, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957, Golubkov 1992, Yatsyna 2009e): cal, cor, fol, lig, sil, ter Acd, Acn, Acp, Acr, Acs, Act, Ahi, Aln, Bet, Car, Coa, Euo, Fre, Frp, Lar, Mal, Mas, Pce, Pdi, Pdo, Pic, Pin, Pma, Poa, Pob, Poc, Pon, Pot, Ppa, Pyr, Qur, Qup, Rob, Sal, Sor, Til, Ulm, on *Lobaria pulmonaria*.
389. **Parmelina tiliacea** (Hoffm.) Hale – BR (Golubkov 1987, Kobzar 2006, Bely 2011a, Yatsyna 2014d, Bely & Kudin 2016), GO (Savicz 1909, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Golubkov 1992, 2011, Tsurukau 2005, Golubkov et al. 2007a, Tsurukau & Khramchankova 2008, 2010a, Bely 2010a, 2011a), GR (Golubkov 1992, Golubkov & Khartanovich 2004b, Golubkov et al. 2007b, Yatsyna 2016c), MI (Gorbach 1961, Golubkov & Vynaev 1981, Golubkov 1992, Kobzar 2006, Yatsyna 2006b, 2010a, 2012b, 2012c, 2013b, 2013c, 2014c, 2014b, 2015c, Yatsyna & Yurchenko 2013), MO (Kobzar 2006, Yatsyna 2009b, 2012a), VI (Kreyer 1913, Golubkov 1987, 1992, Golubkov & Kobzar 2007, Yatsyna 2010c), no exact locality (Gorbach 1962): cor, lig, met, sil Acp, Ahi, Aln, Bet, Car, Fre, Mal, Poa, Pob, Pon, Pot, Qur, Sal, Til, Ulm.

390. **Parmeliopsis ambigua** Nyl. – BR (Golubkov 1987, Golubkov et al. 2007b, Bely 2011a, Yatsyna 2013a), GO (Wyssotzky et al. 1925, Ges 1960, Golubkov & Vynaev 1981, Golubkov 1992, Tsurukau & Khramchankova 2007, Tsurukau et al. 2009, Bely 2011a, Tsurikova 2013, Yatsyna 2013a, 2014d, Tsurukau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a, Bely 2011a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna 2009d, 2010a, 2010f, 2013a, 2015c, Bely 2010c, 2011a), MO (Savicz & Savicz 1924, Savicz 1925, Yatsyna 2009b, 2013a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1965d, Insarov & Pchelkin 1982, Golubkov 1991, 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2010f, 2011a, 2013a, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957, Yatsyna 2009e): cor, lig, roo Aln, Bet, Fre, Jun, Pic, Pin, Pot, Qur, Til.
391. **Parmeliopsis hyperopta** (Ach.) Arnold – BR (Golubkov & Kobzar 2005), GO (Palamarchuk et al. 1975, Golubkov 1992, Tsurukau & Khramchankova 2007), MI (Gorbach 1955, Golubkov & Vynaev 1981, Golubkov & Yesis 1997a, Bely 2010c, 2011a, Golubkov et al. 2013), VI (Gorbach & Mashenkova 1967, Gorbach 1978, Insarov & Pchelkin 1982, Golubkov 1992, Golubkov & Kobzar 2007, Bely 2008b, 2014, Yatsyna 2010c), no exact locality (Gorbach 1957, Belomesyatseva 2004): cor, lig Bet, Jun, Pic, Pin, Pot, Qur. – Note: This species was reported by Tomin (1937) without additional information or specific citation of a source. Furthermore, the species was not located in any of his previously published contributions. Therefore, the report seems to be doubtful and it is not included in the present list.
392. **Parmotrema perlatum** (Huds.) M. Choisy – GR (Gilibert 1792), GR (Tsurukau et al. 2015), VI (Motiejūnaitė & Grochowski 2014): not indicated.
393. **Parmotrema stuppeum** (Taylor) Hale – BR (Golubkov & Kobzar 2005, Bely 2016b), GO (Golubkov 1986, 2010, Tsurukau & Khramchankova 2006, Tsurukau et al. 2009, 2015, Yatsyna 2011d, Bely 2016b), MO (Yatsyna 2012a, Tsurukau et al. 2015), no exact locality (Rassadina 1971): cor Acp, Aln, Car, Fre, Pic, Pot, Qur.
394. **Peltigera apthosa** (L.) Willd. – GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920), MI (Gorbach 1955, Golubkov & Vynaev 1981, Golubkov et al. 2013), MO (Kreyer 1913), VI (Kreyer 1913, Gapienko et al. 2014), no exact locality (Gorbach 1957, 1962): cor, ter Aln, Car, Pic, Pot, Qur.
395. **Peltigera canina** (L.) Willd. – BR (Golubkov 1987, Yatsyna 2013a), GO (Savicz 1910, Wyssotzky et al. 1925, Ges 1960, Gorbach 1973a, Danilchuk et al. 1976, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Tsurukau 2005, Golubkov et al. 2007a, Tsurukau et al. 2009, Golubkov 2011, Tsurukau & Tsurikova 2017), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Kobzar 2006, Yatsyna 2010g, Yurchenko 2011, Bely 2011a, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Yatsyna & Stefanovich 2005, Yatsyna 2005, 2014a, 2013a, Kobzar 2006, Bely 2010c), MO (Kreyer 1913, Savicz & Savicz 1924, Kobzar 2006, Yatsyna 2009b), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Golubkov 1992, Yatsyna 2008, 2010c, Bely 2011a), no exact locality (Gorbach 1957, 1962, Kobzar 1998): cor, mus, lig, roo, ter Acp, Aln, Bet, Car, Pic, Pin, Pot, Qur, Til.
396. **Peltigera didactyla** (With.) J.R. Laundon – BR (Suza 1928, Golubkov 1987, Bely 2011a, Yatsyna 2013a), GO (Savicz 1910, Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Tsurukau 2005, Golubkov et al. 2007a, Tsurukau & Khramchankova 2009a, Golubkov 2011, Bely 2011a, Sobchanka et al. 2012, Tsurukau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Golubkov & Kochan 2007, Yatsyna 2010g, 2013a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz 1925, Golubkov & Vynaev 1981, Chernyshov 2003, Kobzar 2006, Yatsyna 2010a, 2013a, 2013b, Bely 2010c, 2011a, Yurchenko 2011), MO (Kreyer 1913, Yatsyna 2009b, 2013a, Yurchenko 2011), VI (Kreyer 1913, Bachmann & Bachmann 1920, Golubkov 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a, Bely 2011a), no exact locality (Tomin 1937): lig, mus, roo, ter Sal.
397. **Peltigera extenuata** (Nyl. ex Vain.) Lojka – MI (Bely 2011a), VI (Bely & Golubkov 2009a): ter.

398. **Peltigera horizontalis** (Huds.) Baumg. – BR (Yatsyna 2013e), GO (Gorbach 1970), GR (Golubkov 1985, Golubkov & Kochan 2007), MI (Golubkov 1992, Yatsyna 2013e): cor, mus, ter Pic.
399. **Peltigera hymenina** (Ach.) Delise – GO (Tsurykau 2017c), MI (Golubkov & Zavarzin 2010), VI (Kreyer 1913, Bely 2011a): cor, lig, mus, ter Pot.
400. **Peltigera lepidophora** (Nyl. ex Vain.) Bitter – BR (Golubkov & Kobzar 2005), GO (Savicz 1910, Golubkov 1992), GR (Golubkov 1992), MI (Kreyer 1913, Golubkov & Vynaev 1981, Kobzar 2006), VI (Kreyer 1913), no exact locality (Gorbach 1962): cor, mus, ter Fre.
401. **Peltigera leucophlebia** (Nyl.) Gyeln. – MI (Kobzar 2006), MO (Golubkov & Kobzar 2005, Kobzar 2006), VI (Golubkov & Kobzar 2005, Kobzar 2006): cor, mus Pot.
402. **Peltigera malacea** (Ach.) Funck – BR (Golubkov 1987, Kobzar 2006, Yatsyna 2013a), GO (Savicz 1911, Ges 1960, Golubkov 1992, Kobzar 2006, Tsurykau & Khramchankova 2007, Tsurykau et al. 2009), GR (Bachmann & Bachmann 1920, Kobzar 2006, Yatsyna 2010g, 2013a, Golubkov 2014a), MI (Oksner 1924, Savicz 1925, Golubkov & Vynaev 1981, Kobzar 2006, Yatsyna 2007a, 2013a, 2015c), MO (Yatsyna 2013a), VI (Kreyer 1913, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2011a, 2013f), no exact locality (Bely 2015a): lig, mus, ter.
403. **Peltigera membranacea** (Ach.) Nyl. – BR (Bely 2011a, 2011b), GR (Yatsyna 2016c), VI (Bely & Golubkov 2008, Yatsyna 2017): cor, mus Aln, Pic, Pot, Qur.
404. **Peltigera neckeri** Hepp ex Müll. Arg. – BR (Bely & Golubkov 2008), GO (Bely & Golubkov 2008), GR (Golubkov & Kochan 2007, Bely & Golubkov 2008), MI (Bely & Golubkov 2008, Yatsyna 2010a, Golubkov et al. 2013), MO (Bely 2011a), VI (Bely & Golubkov 2008, Yatsyna 2017): cor, mus, ter Pot, Qur.
405. **Peltigera neopolydactyla** (Gyeln.) Gyeln. – BR (Bely 2011b), GO (Bely & Golubkov 2009a), GR (Yatsyna 2016c), MI (Bely & Golubkov 2009a, Golubkov et al. 2013), VI (Bely & Golubkov 2009a): cor, lig, mus, ter Pot, Qur.
406. **Peltigera polydactylon** (Neck.) Hoffm. – BR (Bely 2011a, 2011b), GO (Tsurykau & Khramchankova 2007, Golubkov 2011), GR (Golubkov & Kochan 2007, Bely 2011a), MI (Bely 2011a, 2012c, Golubkov et al. 2013), VI (Golubkov & Kobzar 2007, Bely 2011a): cor, mus, ter Qur. – Note: The distribution of *P. polydactylon* in Belarus is unclear as herbarium specimens identified as “*P. polydactyla*” mainly belong to other species of the *P. polydactylon* group (e.g. Golubkov & Zavarzin 2010); therefore, all historical reports as well as these published by Yatsyna (2008, 2010a, 2010c, 2010g, 2011a, 2014d) are treated as referring to the complex of species and thus require further study.
407. **Peltigera ponojensis** Gyeln. – BR (Golubkov & Zavarzin 2010), GR (Bely 2011a, Bely & Golubkov 2012, Yatsyna 2016c), MI (Yatsyna 2014a), VI (Bely 2011a): lig, mus, ter.
408. **Peltigera praetextata** (Flörke ex Sommerf.) Zopf – BR (Golubkov 1987, Kobzar 2006, Bely 2011a, Yatsyna 2014d), GO (Savicz 1911, Wyssotzky et al. 1925, Golubkov 1992, Kobzar 2006, Tsurykau & Khramchankova 2007, Tsurykau et al. 2009, Bely 2011a, Tsurykau 2017a, Tsurykau & Tsurikova 2017), GR (Kobzar 2006, Golubkov & Kochan 2007, Yatsyna 2010g, 2016c, Golubkov 2014a), MI (Savicz 1925, Golubkov 1992, Kobzar 2006, Yatsyna 2010a, 2013c, 2014a, 2015c, Bely 2011a, Golubkov et al. 2013), MO (Savicz 1925, Yatsyna 2009b, 2012a), VI (Kreyer 1913, Golubkov 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a, 2017, Bely 2011a), no exact locality (Tomin 1937, Gorbach 1957): cor, lig, mus, ter Car, Fre, Pic, Pot, Qup, Qur, Til.
409. **Peltigera rufescens** (Weiss) Humb. – BR (Tessendorff 1922, Krawiec 1938, Golubkov 1987, Kobzar 2006, Yatsyna 2013a), GO (Ljubitzkaja 1914, Gorbach 1973a, Palamarchuk et al. 1975, Golubkov 1992, Tsurykau 2005, Timoshenkova & Tsurykau 2005, Tsurykau et al. 2009, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Kobzar 2006, Golubkov & Kochan 2007, Yatsyna 2010g, Yurchenko

- 2011, Golubkov 2014a), MI (Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Yatsyna & Stefanovich 2005, Kobzar 2006, Yatsyna 2010a, 2013a, 2014b, Yurchenko 2011), MO (Kobzar 2006, Yatsyna 2009b, 2013a), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1992, Kobzar 2006, Yatsyna 2008, 2010c, 2010d, 2011a, Bely 2011a), no exact locality (Kobzar 1998, Yatsyna 2009e): cor, mus, ter Car, Pot.
410. **Pertusaria alpina** Hepp ex Ahles – BR (Golubkov 1987), GO (Gorbach 1973b, Danilchuk et al. 1976, Golubkov & Vynaev 1981), GR (Golubkov 1987), VI (Gorbach 1973b, Golubkov 1992), no exact locality (Tomin 1956, Gorbach 1956, 1957): cor Car, Coa, Fre, Pot, Til.
411. **Pertusaria coccodes** (Ach.) Nyl. – BR (Golubkov 1987), GO (Golubkov & Vynaev 1981, Golubkov 1992), GR (Golubkov 1987, 2014a), MI (Golubkov & Vynaev 1981, Yatsyna 2005, 2012b, 2012c, 2013b, Kobzar 2006, Bely 2010c, 2011a, Yurchenko 2011), MO (Kobzar 2006, Yurchenko 2011, Bely 2011a), VI (Gorbach 1973b, 1978, Golubkov 1992, Bely 2011a), no exact locality (Gorbach 1973b): cor, lig, sil Acp, Car, Poa, Pot, Qup, Qur, Til, Ulm.
412. **Pertusaria constricta** Erichsen – BR (Gorbach 1970): cor Car.
413. **Pertusaria coronata** (Ach.) Th. Fr. – BR (Golubkov 1987), GO (Wyssotzky et al. 1925), GR (Golubkov 1987, Golubkov & Kukwa 2006), MO (Savicz 1925), VI (Gorbach 1981): cor Aln, Car, Fre, Til.
414. **Pertusaria flavida** (DC.) J.R. Laundon – BR (Golubkov 1987), GR (Golubkov 1987), no exact locality (Tomin 1956): cor Aln, Fre, Qur.
415. **Pertusaria leioplaca** DC. – BR (Golubkov 1987, Yatsyna 2014d), GO (Wyssotzky et al. 1925, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Golubkov 1992, 2011, Yurchenko 2011), GR (Golubkov 1987), MI (Golubkov & Vynaev 1981, Golubkov 1992, Bely 2011a, Yatsyna 2014a, 2015c), MO (Savicz 1925, Yatsyna 2009b, 2012a), VI (Kreyer 1913, Kobzar 2006, Yatsyna 2010c, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1973b): cor Acp, Aln, Bet, Car, Coa, Fre, Pot, Qur, Sor, Til.
416. **Pertusaria pertusa** (Weigel.) Tuck. – BR (Golubkov 1987), GO (Savicz 1911, Wyssotzky et al. 1925, Golubkov 1992), GR (Yurchenko 2011), MI (Golubkov & Vynaev 1981, Golubkov 1992, Golubkov & Yesis 1997a, Yatsyna 2010a), MO (Savicz 1925), VI (Golubkov 1987, Bely 2011a), no exact locality (Gorbach 1957, 1973b, Golubkov 1992): cor Acp, Aln, Car, Coa, Fre, Pot, Qur, Sor, Til.
417. **+Phaeocalicium polyporaecum** (Nyl.) Tibell – BR (Yatsyna 2013d): on *Trichaptum bifforme*.
418. **Phaeophyscia ciliata** (Hoffm.) Moberg – BR (Golubkov 1987, Bely 2011a, Bely & Kudin 2016), GO (Savicz 1911, Oksner 1925, Wyssotzky et al. 1925, Ges 1960, Golubkov 1992, 2011, Tsurykau & Khramchankova 2007, 2008, Tsurykau et al. 2009, Bely 2010a, 2011a, Sobchanka et al. 2012), GR (Yatsyna 2010g, 2013a, Golubkov 2014a), MI (Gorbach 1955, 1961, 1965d, Golubkov & Vynaev 1981, Golubkov 1987, Kravchuk 2001, Yatsyna & Yurchenko 2013, Yatsyna 2014a), MO (Savicz & Savicz 1924, Yatsyna 2009b), VI (Kreyer 1913, Golubkov 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1957, 1962, Yatsyna 2009e): cor Acn, Acp, Ahi, Aln, Bet, Fre, Pic, Pin, Pob, Pon, Pot, Qur, Sal, Sor, Til.
419. **Phaeophyscia nigricans** (Flörke) Moberg – BR (Golubkov 1987, Yatsyna 2014d), GO (Kravchuk 2001, Tsurykau & Khramchankova 2007, 2008, 2010a, Golubkov 2011, Sobchanka et al. 2012, Tsurykau & Tsurikova 2017), GR (Golubkov 1987, 2014a, Golubkov & Khartanovich 2004a, 2004b, 2005, Yatsyna 2010g, 2016c), MI (Oksner 1925, Gorbach 1965c, Golubkov & Vynaev 1981, Golubkov 1992, Kravchuk 2001, Yatsyna 2007b, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Mavrishev & Dyukova 2008a, Bely 2011a, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Golubkov et al. 2013, Dobysh & Gaevskii 2016), MO (Kravchuk 2001, Yatsyna 2009b), VI (Kreyer 1913, Golubkov 1992, Kravchuk 2001, Golubkov & Kobzar 2007, Yurchenko 2011, Yatsyna 2008, 2010c, 2011a, 2017): cal, cor, lig, sil, ter Acd, Acn, Acp, Acr, Acs, Act, Ahi, Aln, Bet, Car, Fre, Jug, Mal, Pce, Pdi, Pdo, Pob, Pon, Pot, Pyr, Qur, Rob, Sal, Sor, Til, Ulm.

420. **Phaeophyscia orbicularis** (Neck.) Moberg – BR (Golubkov 1987, Bely 2011a, Yatsyna 2014d, Bely & Kudin 2016), GO (Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Golubkov 1992, 2011, Kravchuk 2000, 2001, Yurchenko & Golubkov 2003, Tsuryskau 2005, 2010, 2017a, Tsuryskau & Khramchankova 2008, Tsuryskau et al. 2009, 2013a, Bely 2010a, 2011a, Sobchanka et al. 2012, Tsuryskau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 1992, 2014a, Kravchuk 2001, Golubkov & Khartanovich 2004a, 2004b, 2005, Andreeva et al. 2006, Valko 2008, Yatsyna 2010g, 2013a, 2016c, Bely 2011a), MI (Oksner 1924, Gorbach 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Golubkov 1987, 1992, Kravchuk & Kakareka 1995, Yurchenko & Golubkov 2003, Chernyshov 2003, 2004c, Yatsyna & Stefanovich 2005, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, Mavrishev & Dyukova 2008a, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Savicz 1925, Kravchuk & Kakareka 1998, Yurchenko & Golubkov 2003, Yatsyna 2009b, Tsuryskau et al. 2016a, Bely 2011a), VI (Kreyer 1913, Golubkov 1987, 1991, 1992, Yurchenko & Golubkov 2003, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2017, Yurchenko 2011, Bely 2011a), no exact locality (Yatsyna 2009e): cal, cor, lig, met, sil Abi, Acd, Acn, Acp, Acr, Acs, Act, Ahi, Aln, Bet, Car, Fre, Jug, Mal, Pce, Pdi, Pdo, Pic, Poa, Pob, Poc, Pon, Pot, Ppa, Pse, Pyr, Qur, Rob, Sal, Sor, Thu, Til, Ulm.
421. **Phaeophyscia pusilloides** (Zahlbr.) Essl. – BR (Yatsyna 2014d), MI (Yatsyna & Golubkov 2009, Bely 2010c), VI (Bely & Golubkov 2012): cor Car, Pot.
422. **Phaeophyscia sciastra** (Ach.) Moberg – BR (Golubkov 1987), GO (Golubkov 2011), GR (Golubkov 1987), MI (Golubkov 1992): cal, sil.
423. **Phlyctis agelaea** (Ach.) Flot. – GO (Wyssotzky et al. 1925), GR (Golubkov 1987, Bely 2011a), MI (Golubkov & Yesis 1997b, Chernyshov 2003, Bely 2011a), MO (Savicz 1925), VI (Golubkov 1987, 1992, Golubkov & Kobzar 2007, Bely 2011a): cor Car, Coa, Fre, Pot, Qur.
424. **Phlyctis argena** (Spreng.) Flot. – BR (Golubkov 1987, Bely 2011a, Bely & Kudin 2016), GO (Ges 1960, Golubkov 1992, 2007, 2011, Tsuryskau & Khramchankova 2009a, Tsuryskau et al. 2009, Bely 2010a, 2011a, Yatsyna 2014d, Tsuryskau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov & Khartanovich 2004a, 2004b, 2005, Andreeva et al. 2006, Bely 2011a, Golubkov 2014a, Yatsyna 2016c), MI (Gorbach 1955, 1961, Golubkov & Vynaev 1981, Kobzar 1997, 2006, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Yatsyna 2009b, Bely 2011a), VI (Gorbach & Mashenkova 1967, Gorbach 1978, Insarov & Pchelkin 1982, Golubkov 1991, Yatsyna 2010c, 2017, Yurchenko 2011, Bely 2011a), no exact locality (Gorbach 1956, 1957): cor, lig Acp, Aln, Bet, Car, Coa, Fre, Pic, Pin, Poa, Pot, Ppa, Qur, Sal, Sor, Thu, Ulm.
425. **Physcia adscendens** (Fr.) H. Olivier – BR (Suza 1928, Krawiec 1938, Golubkov 1987, Bely 2011a, Yatsyna 2014d, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Ges 1960, Golubkov 1992, 2011, Kravchuk 2001, Yurchenko & Golubkov 2003, Tsuryskau & Khramchankova 2007, 2008, 2010a, Tsuryskau et al. 2009, 2013a, Bely 2010a, 2011a, Tsuryskau 2010, Sobchanka et al. 2012, Tsuryskau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Kravchuk 2001, Golubkov & Khartanovich 2004a, 2004b, 2005, Valko 2008, Yatsyna 2010g, 2013a, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz 1925, Golubkov 1992, Kravchuk 2001, Yurchenko & Golubkov 2003, Chernyshov 2003, Mavrishev & Dyukova 2008a, Yatsyna 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Savicz 1925, Kravchuk 2001, Yatsyna 2009b, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Golubkov 1987, 1991, 1992, Yurchenko & Golubkov 2003, Yatsyna 2008, 2010c, 2010d, 2011a, 2017, Bely 2011a), no exact locality (Yatsyna 2009e): cal, cor, lig, met, sil Abi, Acd, Acn, Acp, Acr, Acs, Act, Ahi, Aln, Bet, Car, Fre, Jug, Mal, Pce, Pdi, Pdo, Pic, Pin, Poa, Pob, Pon, Pot, Ppa, Pse, Pyr, Qur, Rob, Sal, Sor, Thu, Til, Ulm.
426. **Physcia aipolia** (Ehrh. ex Humb.) Fűrnr. – BR (Krawiec 1938, Golubkov 1987, Kobzar 2006, Bely 2011a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Savicz 1911, Wyssotzky et al. 1925, Ges 1960,

Golubkov & Vynaev 1981, Kravchuk 2001, Tsurykau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, Tsurykau et al. 2009, Bely 2010a, 2011a, Golubkov 2011, Tsurykau & Tsurikova 2017), GR (Golubkov 1987, 2014a, Golubkov & Khartanovich 2005, Yatsyna 2010g, 2013a, 2016c), MI (Bachmann & Bachmann 1920, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Golubkov 1992, Kravchuk & Kakareka 1995, Yatsyna 2005, 2010a, 2013b, 2013c, 2014a, 2014b, Kobzar 2006, Mavrishev & Dyukova 2008a, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Yatsyna 2009b, 2013a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a, 2017, Yurchenko 2011, Bely 2011a), no exact locality (Gorbach 1956, 1957, Yatsyna 2009e): cal, cor, lig Acp, Aln, Bet, Car, Fre, Mal, Pic, Pin, Poa, Pob, Poc, Pon, Pot, Pyr, Qur, Sal, Sor, Til, Ulm.

427. **Physcia alnophila** (Vain.) Loht., Moberg, Myllys & Tehler – VI (Bely & Golubkov 2009a, Yatsyna 2011a, 2017): cor Pot.
428. **Physcia caesia** (Hoffm.) Fűrnr. – BR (Golubkov 1987, Bely & Golubkov 2008, Yatsyna 2014d), GO (Savicz 1911, Palamarchuk et al. 1975, Golubkov & Vynaev 1981, Tsurykau & Khramchankova 2007, 2010a, Golubkov 2011, Sobchanka et al. 2012), GR (Golubkov 1987, 2014a, Bely & Golubkov 2008, Yatsyna 2010g, 2016c), MI (Gorbach 1965d, Golubkov & Vynaev 1981, Kravchuk & Kakareka 1995, Bely & Golubkov 2008, Yatsyna 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Savicz 1925, Yatsyna 2009b), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1965d, Golubkov 1987, 1992, Kravchuk 2001, Bely & Golubkov 2008, Yatsyna 2010c, 2010d, 2011a): cal, cor, lig, met, mus, sil Acp, Acs, Ahi, Bet, Car, Fre, Jug, Pin, Pdo, Pob, Pot, Qur, Rob, Sal, Sor, Til.
429. **Physcia clementei** (Turner) Maas Geest. – BR (Kobzar 2006), GO (Kobzar 2006), MI (Kobzar 2006), no exact locality (Gorbach 1957): cor Acp, Qur.
430. **Physcia dimidiata** (Arnold) Nyl. – VI (Yatsyna 2010c, 2011a): sil.
431. **Physcia dubia** (Hoffm.) Lettau – BR (Golubkov 1987, Yurchenko & Golubkov 2003, Bely 2011a, Bely & Kudin 2016), GO (Golubkov 1992, 2011, Kravchuk 2001, Tsurykau & Khramchankova 2007, 2008, 2010a, Tsurykau et al. 2009, Bely 2010a, 2011a, Tsurykau 2010, Sobchanka et al. 2012, Tsurykau & Tsurikova 2017), GR (Golubkov 1987, Yurchenko & Golubkov 2003, Golubkov & Khartanovich 2004a, 2005), MI (Golubkov 1992, Golubkov & Yesis 1997a, Kravchuk 2001, Yurchenko & Golubkov 2003, Chernyshov 2003, Yatsyna & Stefanovich 2005, Mavrishev & Dyukova 2008a, Bely 2011a, Bely & Nikolaichuk 2012, Yatsyna 2012b, 2012c, 2013c, 2014a, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Kravchuk 2001, Bely 2011a), VI (Golubkov 1992, Yatsyna 2011a): cor Acd, Aen, Acp, Acr, Acs, Act, Ahi, Aln, Bet, Car, Fre, Frp, Jug, Mal, Mas, Pce, Pce, Pdi, Pdo, Pic, Pob, Pon, Pot, Pyr, Qur, Rob, Sal, Sor, Til, Ulm.
432. **Physcia leptalea** (Ach.) DC. – GR (Bachmann & Bachmann 1920), no exact locality (Yatsyna 2009e): cor, lig, sil Aln, Bet, Pin.
433. **Physcia stellaris** (Ach.) Nyl. – BR (Suza 1928, Krawiec 1938, Bely 2011a, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Kravchuk 2000, 2001, Tsurykau 2005, 2010, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, 2010a, Tsurykau et al. 2009, 2013a, Bely 2010a, 2011a, Golubkov 2011, Sobchanka et al. 2012, Tsurykau & Tsurikova 2017), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Gorbach 1978, Golubkov 1987, 2014a, Kravchuk 2001, Yurchenko & Golubkov 2003, Golubkov & Khartanovich 2004a, 2004b, 2005, Valko 2008, Yatsyna 2010g, 2013a, 2016c, Yurchenko 2011, Bely 2011a), MI (Savicz 1909, Bachmann & Bachmann 1920, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Golubkov 1992, Kravchuk & Kakareka 1995, Kobzar 1997, 2006, Yurchenko & Golubkov 2003, Chernyshov 2003, Yatsyna & Stefanovich 2005, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Savicz & Savicz 1924, Savicz 1925, Kravchuk & Kakareka 1998, Yurchenko & Golubkov 2003, Kobzar 2006, Yatsyna 2009b, Bely 2011a), VI (Kreyer 1913, Bachmann &

Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957, Yatsyna 2009e): cal, cor, lig, sil Abi, Acd, Acn, Acp, Acr, Acs, Act, Ahi, Aln, Bet, Car, Fra, Fre, Jug, Mal, Pce, Pdi, Pdo, Pic, Pin, Pob, Poc, Pon, Pot, Pse, Pyr, Qur, Rob, Sal, Sor, Til, Ulm.

434. **Physcia tenella** (Scop.) DC. – BR (Krawiec 1938, Golubkov 1987, Kobzar 2006, Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Golubkov & Vynaev 1981, Kravchuk 2000, 2001, Yurchenko & Golubkov 2003, Tsurykau 2005, 2010, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, 2010a, Tsurykau et al. 2009, 2013a, 2016a, Bely 2010a, 2011a, Golubkov 2011, Sobchanka et al. 2012, Yatsyna 2014d, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Kravchuk 2001, Golubkov & Khartanovich 2004a, 2004b, 2005, Yatsyna 2010g, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Golubkov 1992, Kravchuk & Kakareka 1995, Kobzar 1997, Yurchenko & Golubkov 2003, Chernyshov 2003, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, Kobzar 2006, Mavrishev & Dyukova 2008a, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Savicz & Savicz 1924, Savicz 1925, Kravchuk & Kakareka 1998, Kobzar 2006, Yatsyna 2009b, Bely 2011a), VI (Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Golubkov 1991, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a, 2017, Yurchenko 2011, Bely 2011a, Tsurykau et al. 2016a), no exact locality (Gorbach 1957, 1962, Yatsyna 2009e): cal, cor, fol, lig, met, sil Acd, Acn, Acp, Acs, Act, Ahi, Aln, Bet, Car, Coa, Fre, Jug, Lar, Mal, Pce, Pdi, Pdo, Pic, Pin, Poa, Pob, Poc, Pon, Pot, Ppa, Pyr, Qur, Rob, Sal, Sor, Til, Ulm.
435. **Physcia tribacia** (Ach.) Nyl. – BR (Golubkov 1987, Bely 2011a, Bely & Kudin 2016), GO (Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Kravchuk 2000, 2001, Tsurykau & Khramchankova 2009a, Bely 2010a, 2011a, Golubkov 2011), GR (Golubkov & Kravchuk 2001, Golubkov & Khartanovich 2004a, 2004b, 2005, Bely 2010c, 2011a, Yatsyna 2010g, Yurchenko 2011, Golubkov 2014a), MI (Oksner 1924, Golubkov & Vynaev 1981, Shukanov et al. 1986, Golubkov 1992, 1997, Kravchuk & Kakareka 1995, Chernyshov 2003, Yatsyna & Stefanovich 2005, Yatsyna 2007b, 2010a, 2014b, Yurchenko 2011, Bely 2011a, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Kravchuk & Kakareka 1998, Bely 2011a), VI (Kreyer 1913, Golubkov 1987, 1992, 1997, Golubkov & Kobzar 2007, Yatsyna 2010c, 2011a, Bely 2011a), no exact locality (Yatsyna 2009e): cal, cor, lig, sil Abi, Acp, Ahi, Aln, Bet, Car, Pic, Pma, Poc, Pon, Pot, Qur, Sal, Til.
436. **Physciella chloantha** (Ach.) Essl. – GR (Bachmann & Bachmann 1920): cor Pot.
437. **Physconia detersa** (Nyl.) Poelt – BR (Golubkov 1987, Bely 2011a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Ljubitzkaja 1914, Wyssotzky et al. 1925, Golubkov 1992, Bely & Golubkov 2008, Tsurykau & Khramchankova 2008, Bely 2010a, 2011a, Yurchenko 2011, Yatsyna 2012e, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987, Yatsyna 2010g, 2016c, Bely 2011a), MI (Oksner 1924, Bely & Golubkov 2008, Yatsyna 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Yurchenko 2011, Bely 2012c, Yatsyna & Yurchenko 2013), MO (Savicz 1925, Yatsyna 2009b, Bely 2011a), VI (Bely & Golubkov 2008, Yatsyna 2010c, 2010d, 2017, Bely 2011a), no exact locality (Yatsyna 2009e): cor, lig, mus Acn, Acp, Aln, Bet, Car, Coa, Euo, Fre, Poa, Pot, Qur, Sor, Til.
438. **Physconia distorta** (With.) J.R. Laundon – BR (Golubkov 1987, Kobzar 2006, Bely 2011a, Yatsyna 2013a, 2014d, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Ges 1960, Palamarchuk et al. 1975, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Golubkov 1992, 2011, Kravchuk 2001, Yurchenko & Golubkov 2003, Tsurykau 2005, 2010, 2017a, Golubkov et al. 2007a, Tsurykau & Khramchankova 2007, 2008, 2010a, Tsurykau et al. 2009, Bely 2010a, 2011a, Yurchenko 2011, Yatsyna 2014d), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1987, 1992, Kravchuk & Kakareka 1995, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Kobzar 2006, Dyukova 2008, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Downar 1861, Kreyer 1913, Savicz 1925, Kravchuk 2001, Kobzar 2006, Yatsyna 2009b, 2012a, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920,

Gorbach & Mashenkova 1967, Gorbach 1978, Golubkov 1987, 1991, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a, 2017, Yurchenko 2011, Bely 2011a), no exact locality (Gorbach 1956, 1957, Yatsyna 2009e): cor, sil Acn, Acp, Acs, Ahi, Aln, Bet, Car, Euo, Fre, Jug, Mal, Poa, Pob, Pon, Pot, Pyr, Qur, Rob, Sal, Sor, Til, Ulm.

439. **Physconia enteroxantha** (Nyl.) Poelt – BR (Golubkov 1987, Bely 2011a, Yatsyna 2014d, Bely & Kudin 2016), GO (Golubkov 1992, 2007, 2011, Tsurukau 2005, 2010, Bely & Golubkov 2008, Tsurukau & Khramchankova 2008, 2010a, Tsurukau et al. 2009, Bely 2010a, 2011a, Tsurukau & Tsurikova 2017), GR (Golubkov 1987, 2014a, Golubkov & Khartanovich 2004a, 2004b, 2005, Yurchenko 2011, Yatsyna 2016c), MI (Golubkov 1987, Golubkov & Yesis 1997a, Yurchenko 2011, Bely 2011a, Bely & Nikolaichuk 2012, Yatsyna 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Golubkov et al. 2013), MO (Bely 2011a), VI (Bely & Golubkov 2008, Yatsyna 2010c, 2010d, 2011a, 2017), no exact locality (Yatsyna 2009e): cor Acn, Acp, Acs, Ahi, Aln, Bet, Car, Fre, Jug, Pce, Poa, Pob, Pon, Pot, Pyr, Qur, Rob, Sal, Sor, Til, Ulm.
440. **Physconia grisea** (Lam.) Poelt – BR (Krawiec 1938, Kobzar 2006, Bely 2011a), GO (Ges 1960, Golubkov & Vynaev 1981, Golubkov 1992, 2007, 2011, Kravchuk 2001, Kobzar 2006, Tsurukau & Khramchankova 2007, 2008, 2010a, Tsurukau & Tsurikova 2017), GR (Golubkov 1987, 2014a, Golubkov & Khartanovich 2004b, 2005, Kobzar 2006, Yatsyna 2016c), MI (Gorbach 1955, 1961, Golubkov & Vynaev 1981, Kravchuk & Kakareka 1995, Kobzar 2006, Mavrishev & Dyukova 2008a, Yatsyna 2012b, 2013b, 2013c, 2014a, 2014b, Golubkov et al. 2013, Dobysh & Gaevskii 2016), MO (Kravchuk & Kakareka 1998, Kobzar 2006), VI (Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Golubkov 1991), no exact locality (Gorbach 1956, 1957, 1962): cor, lig Acn, Acp, Acs, Ahi, Aln, Bet, Car, Fre, Pic, Poa, Pon, Pot, Ppa, Pyr, Qur, Sal, Sor, Til, Ulm.
441. **Physconia muscigena** (Ach.) Poelt – no exact locality (Yatsyna & Merzhvinsky 2012): not indicated.
442. **Physconia perisidiosa** (Erichsen) Moberg – BR (Yatsyna 2014d), GO (Tsurukau & Khramchankova 2007, Yurchenko 2011, Golubkov 2011, Bely 2011a), GR (Golubkov & Khartanovich 2005, Yatsyna 2010g, 2016c, Golubkov 2014a), MI (Golubkov & Yesis 1997a, Yatsyna & Golubkov 2009, Yatsyna 2010a, 2012b, 2013b, 2013c, 2014a, 2014b, 2015c, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Yatsyna 2009b), VI (Bely & Golubkov 2008, Yatsyna 2010c, Gapienko et al. 2014), no exact locality (Golubkov 1987): cor Acp, Bet, Fre, Pot, Qur, Til.
443. **Piccolia ochrophora** (Nyl.) Hafellner – GO (Golubkov 2011): cor Sal.
444. **Placidium squamulosum** (Ach.) Breuss – GR (Golubkov 2013b, Yatsyna 2016c), VI (Golubkov 1996): cal, ter.
445. **Placynthiella dasaea** (Stirt.) Tønsberg – GO (Bely 2011a), VI (Bely 2011a), no exact locality (Makarova 2003): lig.
446. **Placynthiella hyporhoda** (Th. Fr.) Coppins & P. James – GO (Golubkov 2011, Yatsyna 2013a), MI (Yatsyna 2013a), MO (Yatsyna 2013a), VI (Kreyer 1913, Yatsyna 2010c, 2011a): ter.
447. **Placynthiella icmalea** (Ach.) Coppins & P. James – BR (Bely 2012a), GO (Bely 2011a, Tsurukau & Tsurikova 2017), GR (Yatsyna 2010g), MI (Bely 2011a, Yatsyna 2013a, 2014a), MO (Yatsyna 2013a), VI (Yatsyna 2010c, 2011a, 2017), no exact locality (Makarova 2003): lig, roo, ter Pic, Pin.
448. **Placynthiella oligotropha** (J.R. Laundon) Coppins & P. James – GO (Golubkov 2011, Bely 2011a), MI (Bely 2011a, Yatsyna 2013a), MO (Yatsyna 2009b), VI (Golubkov 1992, Yatsyna 2010c): lig, roo, ter Pic.
449. **Placynthiella uliginosa** (Schrad.) Coppins & P. James – BR (Filipowicz 1881, Golubkov 1987, Yurchenko 2011, Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Bely 2010a, Golubkov 2011, Yatsyna 2013a), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a), MI (Savicz & Savicz 1924, Savicz 1925, Golubkov & Vynaev 1981,

Golubkov 1992, Golubkov & Yesis 1997b, Chernyshov 2003, Yatsyna 2009d, 2010a, 2013a, 2017, Bely 2011a), MO (Yatsyna 2013a), VI (Yatsyna 2010c, 2013a, Bely 2011a): lig, mus, ter Pic, Pin.

450. **Placynthium nigrum** (Huds.) Gray – GR (Golubkov 2013b, Yatsyna 2013d), MI (Golubkov 2013b), VI (Yatsyna 2011e): cal.
451. **Platismatia glauca** (L.) W. L. Culb. & C. F. Culb. – BR (Krawiec 1938, Golubkov 1987, Bely 2011a, Yatsyna 2013a, Tsurikova 2013), GO (Savicz 1911, Ges 1960, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Golubkov 1992, Tsurykau 2005, Tsurykau et al. 2009, Bely 2011a, Tsurikova 2013, Yatsyna 2014d), GR (Błoński 1889, Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2010g, 2013a, Bely 2011a), MI (Bachmann & Bachmann 1920, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov 1992, Kobzar 1997, Yatsyna 2005, 2010a, 2010f, 2013a, 2013c, 2014a, Bely 2010c, 2011a, Yurchenko 2011), MO (Yatsyna 2009b, 2013a, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1978, Insarov & Pchelkin 1982, Golubkov 1991, 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a, 2013a, 2017, Bely 2011a), no exact locality (Gorbach 1957, Yatsyna 2009e): cor, lig Acp, Aln, Bet, Car, Jun, Mal, Pce, Pic, Pin, Pot, Pyr, Qur, Sal, Ulm.
452. **Pleurosticta acetabulum** (Neck.) Elix & Lumbsch – BR (Golubkov et al. 2007b), GO (Kreyer 1913, Ljubitskaja 1914, Golubkov & Vynaev 1981, Golubkov 1992, Kravchuk 2001, Tsurykau 2005, Tsurykau & Khramchankova 2008, 2010a, Tsurykau et al. 2009, Bely 2011a, Tsurikova 2013), GR (Golubkov 1987, 1992, 2014a, Golubkov & Khartanovich 2004a, Golubkov et al. 2007b, Yatsyna 2010g, 2016c), MI (Bachmann & Bachmann 1920, Gorbach 1965d, Golubkov & Vynaev 1981, Golubkov 1992, Yatsyna 2005, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Kobzar 2006, Yatsyna & Yurchenko 2013), MO (Yatsyna 2009b), VI (Kreyer 1913, Golubkov 1987, 1992, Kravchuk 2001, Yatsyna 2010c, 2011a, Yurchenko 2011): cor Acn, Acp, Bet, Fre, Poa, Pob, Pon, Pot, Qur, Til.
453. **Polycauliona candelaria** (L.) Frödén, Arup & Søchting – BR (Krawiec 1938, Yatsyna 2010e, Yatsyna & Kondratyuk 2013), GO (Wyssotzky et al. 1925, Golubkov 1992, Kravchuk 2001, Tsurykau & Khramchankova 2008, 2010a, Tsurykau & Tsurikova 2017), GR (Gilibert 1781, 1792, Yatsyna 2010e, 2010g, 2016c, Yatsyna & Kondratyuk 2013, Golubkov 2014a), MI (Golubkov & Vynaev 1981, Golubkov 1992, Kravchuk & Kakareka 1995, Kobzar 2006, Yatsyna 2010a, 2010e, 2012b, 2013b, 2013c, 2014a, 2014b, Bely 2011a, Yatsyna & Kondratyuk 2013, Yatsyna & Yurchenko 2013), MO (Yatsyna 2010e, Yatsyna & Kondratyuk 2013), VI (Golubkov 1992, Kravchuk 2001, Golubkov & Kobzar 2007, Yatsyna 2010c, 2011a, Yatsyna & Kondratyuk 2013), no exact locality (Gorbach 1965d): cor Acp, Act, Ahi, Aln, Bet, Fre, Pon, Qur, Sal, Til, Ulm.
454. **Polycauliona phlogina** (Ach.) Arup, Frödén & Søchting – no exact locality (Kondratyuk et al. 2004): not indicated.
455. **Polycauliona polycarpa** (Hoffm.) Frödén, Arup & Søchting – BR (Krawiec 1938, Golubkov 1987, Kobzar 2006, Yatsyna 2010e, 2014d, Bely 2011a, Bely & Kudin 2016), GO (Ljubitskaja 1914, Wyssotzky et al. 1925, Ges 1960, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Kravchuk 2000, 2001, Yurchenko & Golubkov 2003, Tsurykau 2005, 2010, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, 2010a, Bely 2010a, 2011a, Yatsyna 2010e, Yurchenko 2011, Golubkov 2011, Sobchanka et al. 2012, Tsurykau et al. 2013a, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Kravchuk 2001, Golubkov & Khartanovich 2004a, 2004b, 2005, Kobzar 2006, Yatsyna 2010e, 2010g, 2016c, Yurchenko 2011, Bely 2011a, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Savicz 1925, Gorbach 1955, 1965b, Golubkov & Vynaev 1981, Shukanov et al. 1986, Kravchuk & Kakareka 1995, Vyazovskaya & Golubkov 1997, Yurchenko & Golubkov 2003, Chernyshov 2003, Yatsyna 2005, 2010a, 2010e, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Mavrishev & Dyukova 2008a, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Dobysh & Gaevskii 2016), MO (Savicz 1925, Kravchuk & Kakareka 1998, Yatsyna 2009b, 2010e, Bely 2011a), VI (Kreyer 1913, Gorbach 1965d, Golubkov 1987, 1991, 1992, Yurchenko & Golubkov 2003, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2010e, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957, Golubkov 2000): cor, lig, sil Abi, Acd, Acn, Acp, Acr, Acs, Act, Ahi, Aln, Bet, Car, Fre, Jug, Lar, Mal, Pce, Pdi, Pdo, Pic, Pma, Poa, Pob, Poc, Pon, Pot, Ppa, Pse, Pyr, Qur, Rib, Rob, Sal, Sor, Til, Ulm.

456. **Polycauliona ucrainica** (S.Y. Kondr.) Frödén, Arup & Søchting – BR (Yatsyna & Kondratyuk 2013), GO (Golubkov 2011, 2013a), GR (Golubkov 2013a, Yatsyna & Kondratyuk 2013, Yatsyna 2016c), MI (Yatsyna 2010a, 2010e, 2012b, 2013c, 2014b, 2015c, Yatsyna & Kondratyuk 2013, Golubkov 2013a), MO (Yatsyna & Kondratyuk 2013), VI (Yatsyna 2010e, 2013f, Golubkov 2013a, Yatsyna & Kondratyuk 2013), no exact locality (Kondratyuk 2004): cor, lig Acp, Aln, Bet, Lar, Pic, Pis, Pon, Pot, Qur, Sor, Til. – Note: The report by Tsurykau & Khramchankova (2008) is erroneous and belongs to *P. candelaria* (see, Tsurykau 2013a).
457. **Polysporina simplex** (Davies) Vězda – BR (Golubkov 1987), GR (Yurchenko 2011), VI (Golubkov 1996): cal.
458. **Porpidia cinereoatra** (Ach.) Hertel & Knoph – GO (Kobzar 2006), VI (Kreyer 1913): sil.
459. **Porpidia crustulata** (Ach.) Hertel & Knoph – BR (Krawiec 1938, Yurchenko 2011), GO (Savicz 1911, Golubkov 1992), GR (Bachmann & Bachmann 1920, Golubkov 2014a), MI (Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Chernyshov 2004c, Yurchenko 2011, Yatsyna 2013a), VI (Kreyer 1913, Golubkov 1992, Bely & Golubkov 2012): sil.
460. **Porpidia macrocarpa** (DC.) Hertel & A. J. Schwab – GR (Bachmann & Bachmann 1920), MI (Golubkov & Yesis 1997b, Yatsyna & Stefanovich 2005): sil.
461. **Porpidia soresidzodes** (Lamy) J.R. Laundon – BR (Golubkov 1987): sil.
462. **Protoblastenia rupestris** (Scop.) J. Steiner – GR (Golubkov 2008, 2013b, Yatsyna 2016c), MI (Golubkov 2013b): cal.
463. **Protoparmelia badia** (Hoffm.) Hafellner – GR (Yatsyna 2015d): sil.
464. **Protoparmelia hypotremella** van Herk, Spier & V. Wirth – GO (Tsurykau et al. 2016a): cor Pin.
465. **Protoparmeliopsis muralis** (Schreb.) M. Choisy – BR (Golubkov 1987), GO (Savicz 1911, Golubkov & Vynaev 1981, Tsurykau & Khramchankova 2009a, Golubkov 2011), GR (Bachmann & Bachmann 1920, Golubkov 1987, 1997, 2014a, Yatsyna 2010g, 2016c), MI (Golubkov & Vynaev 1981, Yatsyna 2010a, 2012b, 2013c, 2013b, 2014a, 2014b, 2015c, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013, Golubkov et al. 2013), MO (Savicz 1925, Yatsyna 2009b), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Golubkov 1991, 1992, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a, Yurchenko 2011): cal, lig, sil.
466. **Pseudevernia furfuracea** (L.) Zopf – BR (Tessendorff 1922, Golubkov 1987, Kobzar 2006, Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Savicz 1909, Wyssotzky et al. 1925, Ges 1960, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Golubkov 1992, 2011, Kravchuk 2000, Tsurykau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, Tsurykau et al. 2009, Bely 2010a, 2011a, Tsurikova 2013, Yatsyna 2014d, Tsurykau & Tsurikova 2017), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Kravchuk 2001, Kobzar 2006, Yatsyna 2010g, 2013a, Bely 2011a), MI (Bachmann & Bachmann 1920, Savicz & Savicz 1924, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1992, Kobzar 1997, 2006, Kravchuk 2001, Chernyshov 2003, Yatsyna 2005, 2009d, 2010a, 2010f, 2012b, 2013a, 2013b, 2013c, 2014a, 2014b, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013), MO (Kreyer 1913, Savicz 1925, Kravchuk & Kakareka 1998, Yatsyna 2004, 2009b, 2013a, Kobzar 2006), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Gorbach & Getko 1978, Insarov & Pchelkin 1982, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2010f, 2011a, 2013a, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957, Yatsyna 2009e): cor, lig, mus, sil Acp, Aln, Bet, Car, Fre, Pce, Pic, Pin, Pis, Poa, Pon, Pot, Pyr, Qur, Sal, Sor, Til, Ulm.

467. **Pseudosagedia aenea** (Wallr.) Hafellner & Kalb – BR (Makarevich 1960, Bely 2011a, Yatsyna 2014d), MI (Bely 2011a, Yatsyna 2013c, 2014a, 2015c), VI (Gapienko et al. 2014, Yatsyna 2017): cor Acp, Aln, Car, Coa, Pic, Pot.
468. **Pseudoschismatomma rufescens** (Pers.) Ertz & Tehler – BR (Gorbach 1973b, Golubkov 1987, Yatsyna 2014d, Bely & Kudin 2016), GO (Golubkov & Vynaev 1981, Golubkov 1992, Tsurukau & Khranchankova 2009b, Bely 2010a), GR (Bachmann & Bachmann 1920, Yatsyna 2016c), MI (Bachmann & Bachmann 1920, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov 1992, Yatsyna 2012b, 2013b, 2013c, 2014a, 2014b, 2015c), MO (Kobzar 2006), VI (Gorbach & Mashenkova 1967, Golubkov 1992, Yatsyna 2010d, 2011e, Bely 2011a), no exact locality (Tomin 1939, Gorbach 1956, 1957, Golubkov 1992): cor Acp, Aln, Bet, Car, Coa, Fre, Pin, Pot, Qur, Til, Ulm.
469. **Psilolechia clavulifera** (Nyl.) Coppins – MI (Yatsyna & Motiejūnaite 2015), VI (Yatsyna 2017): roo Pic.
470. **Psilolechia lucida** (Ach.) M. Choisy – GO (Bely 2011a, Yatsyna 2012e, Tsurukau & Tsurikova 2017), MI (Kobzar 2006, Bely 2011a, Yatsyna 2011c, 2013b), MO (Yatsyna 2011c), VI (Bely 2011a, Yatsyna 2011e, 2017): cal, cor, lig, roo Car, Pic, Pin.
471. **Psoroglaena dictyospora** (Orange) H. Harada – MI (Yatsyna 2014a): cor Fre.
472. **Punctelia subrudecta** (Nyl.) Krog – BR (Golubkov 1985), GO (Golubkov 1986, 1992, 2010, Bely 2010a, Yatsyna 2011d, Tsurukau et al. 2015), VI (Yatsyna 2011d): cor Aln, Fre, Qur, Sal.
473. **Punctelia jeckeri** (Roum.) Kalb – GO (Tsurukau et al. 2015): cor Aln, Qur.
474. **Pycnora sorophora** (Vain.) Hafellner – GO (Tsurukau et al. 2012, Yatsyna 2012d, Tsurukau & Khranchankova 2015), MI (Yatsyna 2012d, 2015c), MO (Yatsyna 2012d), VI (Yatsyna 2012d): cor Pin.
475. **Pycnothelia papillaria** Dufour – GO (Golubkov 1992, 2011), GR (Golubkov 2014a), MI (Bachmann & Bachmann 1920, Tseterman 1948, Golubkov 1992, Yurchenko 2011), VI (Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007), no exact locality (Gorbach 1965d, Golubkov 1992, Bely 2015a): ter.
476. **Pyrenula coryli** (Nyl.) A. Massal. – VI (Kreyer 1913, Kobzar 1983), no exact locality (Gorbach 1956, 1957, 1962): cor Car, Coa, Sor, Ulm.
477. **Pyrenula laevigata** (Pers.) Arnold – BR (Golubkov 1987), VI (Kreyer 1913, Insarov & Pchelkin 1982, Kobzar 2006, Bely 2011a), no exact locality (Gorbach 1956, 1957): cor Acp, Bet, Car, Fre, Pin, Pot.
478. **Pyrenula nitida** (Weigel) Ach. – BR (Golubkov 1987, Yatsyna 2014d), GO (Wyssotzky et al. 1925, Golubkov & Vynaev 1981), GR (Golubkov 1992), MI (Golubkov & Vynaev 1981, Yatsyna 2012b, 2013b, 2014a, 2015c), MO (Yatsyna 2012a), VI (Yatsyna 2010c, 2011a), no exact locality (Gorbach 1956, 1957): cor Car, Coa, Fre, Poa, Ulm.
479. **Pyrenula nitidella** (Flörke ex Schaer.) Müll. Arg. – BR (Golubkov 1987), GO (Wyssotzky et al. 1925, Golubkov 1992, Yurchenko 2011), GR (Golubkov 1987), MI (Golubkov 1992, Golubkov & Yesis 1997a), MO (Bely & Golubkov 2009a), VI (Kobzar 2006, Bely & Golubkov 2009a), no exact locality (Gorbach 1956, 1957, Golubkov 1992): cor Acp, Car, Coa, Fre.
480. **Pyrrhospora quernea** (Dicks.) Körb. – VI (Insarov & Pchelkin 1982), MI (Yatsyna 2013b, 2013c, Yatsyna & Yurchenko 2013): cor Lar, Pin, Til.
481. **Ramalina baltica** Lettau – BR (Gorbach 1973b), GO (Wyssotzky et al. 1925, Golubkov & Vynaev 1981, Golubkov 1992, 2011, Tsurukau & Khranchankova 2007, Tsurukau et al. 2009, Bely 2011a), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Yatsyna 2016b, 2016c), MI (Bachmann & Bachmann 1920, Oksner 1924, Golubkov & Vynaev 1981, Kobzar 2006, Yatsyna 2012c, 2013b, 2013c,

- 2016b, Golubkov et al. 2013), MO (Savicz & Savicz 1924, Savicz 1925), VI (Gorbach & Mashenkova 1967, Golubkov 1987, Kobzar 2006, Yurchenko 2011, Yatsyna 2011e, 2016b, Bely 2015b), no exact locality (Golubkov 1992): cor, lig Acp, Aln, Car, Fre, Lar, Mal, Pic, Pot, Pyr, Qur, Sal, Sor, Til.
482. **Ramalina calicaris** (L.) Fr. – GO (Wyssotzky et al. 1925, Yatsyna 2016b), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Yatsyna 2016b), MI (Oksner 1924, Gorbach 1955, Bely & Golubkov 2012, Yatsyna 2013a, 2016b, Golubkov et al. 2013), VI (Bely 2011a, Bely & Golubkov 2012, Gapienko et al. 2014), no exact locality (Gorbach 1956, 1957): cor Acp, Aln, Bet, Car, Fre, Pic, Pin, Pot, Qur, Sal, Sor, Til.
483. **Ramalina dilacerata** (Hoffm.) Hoffm. – GO (Ljubitskaja 1914), VI (Kreyer 1913, Bely & Golubkov 2009a, Bely 2011a): cor Pic, Qur, Sor.
484. **Ramalina elegans** (Bagl. & Carestia) Stizenb. – MI (Golubkov & Kobzar 2005, Yatsyna 2010a, Bely & Golubkov 2012), VI (Bely 2011a): cor Pot, Sal.
485. **Ramalina farinacea** (L.) Ach. – BR (Gorbach 1963, Golubkov 1987, Kobzar 2006, Yurchenko 2011, Bely 2011a, Yatsyna 2013a, 2014d, 2016b, Bely & Kudin 2016), GO (Savicz 1909, Wyssotzky et al. 1925, Ges 1960, Gorbach 1965d, Palamarchuk et al. 1975, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Kravchuk 2000, Tsurykau 2005, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, 2010a, Tsurykau et al. 2009, Bely 2010a, 2011a, Golubkov 2011, Yatsyna 2014d, 2016b), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Golubkov & Khartanovich 2004a, 2004b, Kobzar 2006, Andreeva et al. 2006, Yatsyna 2010g, 2013a, 2016b, 2016c, Yurchenko 2011, Bely 2011a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz 1925, Gorbach 1955, 1961, 1963, Golubkov & Vynaev 1981, Shukanov et al. 1986, Kravchuk & Kakareka 1995, Kobzar 1997, 2006, Yatsyna 2005, 2010a, 2012b, 2012c, 2013a, 2013b, 2013c, 2014a, 2014b, 2015c, 2016b, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Downar 1861, Kreyer 1913, Savicz & Savicz 1924, Savicz 1925, Gorbach 1963, Kravchuk & Kakareka 1998, Yatsyna 2009b, 2012a, 2016b, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1963, 1973b, 1978, Gorbach & Mashenkova 1967, Golubkov 1991, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2011a, 2016b, 2017, Bely & Golubkov 2008, Bely 2011a), no exact locality (Gorbach 1956, 1957): cor Acp, Aln, Bet, Car, Coa, Fre, Mal, Pic, Pin, Poa, Poc, Pon, Pot, Pyr, Qup, Qur, Sal, Sor, Til, Ulm, on Lobaria pulmonaria.
486. **Ramalina fastigiata** (Pers.) Ach. – BR (Golubkov 1987, Yatsyna 2013a), GO (Golubkov 2011), GR (Bachmann & Bachmann 1920, Golubkov 1992, 2014a, Yurchenko 2011, Yatsyna 2016b, 2016c), MI (Bachmann & Bachmann 1920, Golubkov & Vynaev 1981, Golubkov & Yesis 1997b, Yatsyna 2005, 2010a, 2012b, 2013b, 2013c, 2014a, 2014b, 2015c, Kobzar 2006, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Downar 1861, Kreyer 1913, Yatsyna 2009b), VI (Kreyer 1913, Bachmann & Bachmann 1920, Golubkov 1987, 1992, Golubkov & Kobzar 2007, Bely 2011a, Gapienko et al. 2014), no exact locality (Gorbach 1973b, Golubkov 1992): cor, lig Acp, Fre, Pic, Poa, Pon, Pot, Qur, Sal, Til, Ulm.
487. **Ramalina fraxinea** (L.) Ach. – BR (Krawiec 1938, Golubkov 1987, Kobzar 2006, Yatsyna 2013a, 2014d, 2016b, Bely & Kudin 2016), GO (Savicz 1909, Wyssotzky et al. 1925, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Tsurykau 2005, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, Tsurykau et al. 2009, Bely 2010a, Golubkov 2011, Yatsyna 2016b), GR (Gilibert 1781, Bachmann & Bachmann 1920, Gorbach 1978, Golubkov 1987, 2014a, Golubkov & Khartanovich 2004a, 2004b, 2005, Kobzar 2006, Yatsyna 2010g, 2016b, 2016c, Yurchenko 2011), MI (Bachmann & Bachmann 1920, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Kobzar 1997, 2006, Chernyshov 2003, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, 2016c, Yurchenko 2011, Bely 2011a, Yatsyna & Yurchenko 2013), MO (Downar 1861, Kreyer 1913, Savicz & Savicz 1924, Savicz 1925, Yatsyna 2009b, 2012a, 2016b, Bely 2011a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1963, Gorbach & Mashenkova 1967, Golubkov 1991, Yatsyna 2010c, 2010d, 2011a, 2016b, 2017, Bely 2011a), no exact locality (Gorbach 1956, 1957): cor Acp, Aln, Bet, Car, Fre, Mal, Pic, Poa, Poc, Pon, Pot, Pyr, Qur, Rob, Sal, Sor, Til, Ulm.
488. **Ramalina pollinaria** (Westr.) Ach. – BR (Golubkov 1987, Yurchenko 2011, Bely 2011a, Yatsyna 2014d, 2016b, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, 1914, Wyssotzky et al. 1925, Ges 1960,

- Danilchuk et al. 1976, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Tsurykau 2005, 2017a, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, Tsurykau et al. 2009, Bely 2010a, 2011a, Golubkov 2011, Yatsyna 2014d), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Golubkov & Khartanovich 2004a, Kobzar 2006, Andreeva et al. 2006, Yatsyna 2016b, 2016c), MI (Oksner 1924, Savicz 1925, Gorbach 1955, 1961, 1963, Golubkov & Vynaev 1981, Yatsyna 2005, 2010a, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, 2016b, Kobzar 2006, Yatsyna & Yurchenko 2013), MO (Savicz & Savicz 1924, Savicz 1925, Gorbach 1963, Kobzar 2006, Yatsyna 2009b, 2016b), VI (Kreyer 1913, 1914, Gorbach & Mashenkova 1967, Gorbach 1978, Golubkov 1991, Golubkov & Kobzar 2007, Yatsyna 2010c, 2010d, 2016b, 2017), no exact locality (Gorbach 1956): cal, cor, lig Acp, Acs, Aln, Bet, Car, Fre, Pic, Pon, Pot, Pyr, Qup, Qur, Sal, Sor, Til.
489. **Ramalina sinensis** Jatta – BR (Gorbach 1963, Yatsyna 2016b), no exact locality (Gorbach 1962): cor Acp, Car, Qur.
490. **Ramalina subfarinacea** (Nyl. ex Cromb.) Nyl. – VI (Yatsyna 2013f): sil. – Note: Reports by Bely (2010a, 2011a) are erroneous and belong to *R. farinacea* (Bely, pers. comm.). Also the report on *Picea abies* bark by Oksner (1925) seems to be doubtful given that the species is typically saxicolous.
491. **Ramalina thrausta** (Ach.) Nyl. – BR (Krawiec 1938, Gorbach 1973b, Golubkov 1987), GO (Golubkov & Kobzar 2005), MI (Savicz 1925, Golubkov & Vynaev 1981, Yatsyna 2016b), MO (Savicz & Savicz 1924, Savicz 1925), VI (Kreyer 1913, Golubkov 1992), no exact locality (Gorbach 1965d): cor Coa, Pic, Qur.
492. **Ramboldia elabens** (Fr.) Kantvilas & Elix – BR (Golubkov 1987): lig.
493. **Reichlingia leopoldii** Diederich & Scheid. – MI (Yatsyna 2014a): cor Fre, Qur.
494. **Rhizocarpon badioatrum** (Flörke ex Spreng.) Th. Fr. – VI (Kreyer 1913, Matwiejuk & Golubkov 2012): sil.
495. **Rhizocarpon distinctum** Th. Fr. – GR (Bachmann & Bachmann 1920, Golubkov 1987, Golubkov & Matwiejuk 2009, Yatsyna 2016c), MI (Golubkov 1997), VI (Bachmann & Bachmann 1920, Gorbach 1973b, Yatsyna 2010c), no exact locality (Golubkov 1992): sil. – Note: The report by Kreyer (1913) seems to be doubtful based on the negative I reaction of the medulla.
496. **Rhizocarpon geographicum** (L.) DC. – GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Bely & Golubkov 2008, Golubkov & Matwiejuk 2009), MI (Golubkov 2002, Bely & Golubkov 2008, Matwiejuk & Golubkov 2012, Yatsyna & Yurchenko 2013), MO (Yatsyna 2009b), VI (Golubkov 1992, Bely & Golubkov 2008, Yatsyna 2010c): sil.
497. **Rhizocarpon grande** (Flörke ex Flot.) Arnold – GR (Bachmann & Bachmann 1920, Golubkov & Matwiejuk 2009), MI (Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1997), MO (Savicz 1925, Matwiejuk & Golubkov 2012), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1973b, Matwiejuk & Golubkov 2012), no exact locality (Golubkov 1992): sil.
498. **Rhizocarpon hochstetteri** (Körb.) Vain. – GR (Golubkov & Matwiejuk 2009): sil.
499. **Rhizocarpon lavatum** (Fr.) Hazsl. – GO (Ljubitzkaja 1914), GR (Golubkov & Matwiejuk 2009), MI (Golubkov & Matwiejuk 2010): sil.
500. **Rhizocarpon lecanorinum** Anders – GR (Yatsyna & Motiejūnaite 2015): sil.
501. **Rhizocarpon obscuratum** (Ach.) A. Massal. – GR (Bely & Golubkov 2008), MI (Golubkov 1997, Yurchenko 2011), VI (Bely & Golubkov 2008): sil.
502. **Rhizocarpon petraeum** (Wulfen) A. Massal. – BR (Golubkov 1987), GR (Bachmann & Bachmann 1920, Golubkov & Matwiejuk 2009), VI (Golubkov & Matwiejuk 2010): sil.

503. **Rhizocarpon polycarpum** (Hepp) Th. Fr. – GR (Golubkov & Matwiejuk 2009), MI (Matwiejuk & Golubkov 2012), VI (Matwiejuk & Golubkov 2012): sil.
504. **Rhizocarpon reductum** Th. Fr. – GR (Bachmann & Bachmann 1920, Golubkov & Matwiejuk 2009), MI (Golubkov & Yesis 1997a, Golubkov 1997, Chernyshov 2003), VI (Kreyer 1913, Tomin 1956): sil.
505. **Rhizocarpon subpostumum** (Nyl.) Arnold – GR (Bachmann & Bachmann 1920): sil.
506. **Rhizocarpon timdalii** Ihlen & Fryday – VI (Golubkov & Matwiejuk 2010) sil.
507. **#Rhizocarpon viridiatrum** (Wulfen) Körb. – GR (Yatsyna 2015d): sil.
508. **Rinodina bischoffii** (Hepp) A. Massal. – GR (Yatsyna & Motiejūnaite 2015): cal.
509. **Rinodina conradii** Körb. – MI (Tomin 1956): lig.
510. **Rinodina exigua** (Ach.) Gray – GO (Savicz 1909, Golubkov 1992), GR (Bachmann & Bachmann 1920, Golubkov 1987, Golubkov & Khartanovich 2004a, 2004b, 2005), MI (Bachmann & Bachmann 1920, Golubkov & Vynaev 1981, Bely 2011a, Yatsyna 2012b, Yatsyna & Yurchenko 2013), VI (Kravchuk 2001, Yatsyna 2010c): cor, lig Aln, Fre, Lar, Pon, Pot, Qur, Til.
511. **Rinodina gennarii** Bagl. – MI (Golubkov & Yesis 1997b): not indicated.
512. **Rinodina oxydata** (A. Massal.) A. Massal. – GR (Bachmann & Bachmann 1920, Yatsyna 2016c): sil.
513. **Rinodina polyspora** Th. Fr. – GO (Savicz 1909, Golubkov 1992), GR (Bachmann & Bachmann 1920), MO (Kreyer 1913), no exact locality (Gorbach 1962): cor Aln, Bet, Pyr, Pot.
514. **Rinodina pyrina** (Ach.) Arnold – BR (Kobzar 2006, Bely 2011a, Bely & Kudin 2016), GO (Bely 2010a, Yatsyna 2013a, Tsurykau & Tsurikova 2017), GR (Bachmann & Bachmann 1920, Golubkov 1987), MI (Gorbach 1961, Golubkov & Yesis 1997b, Chernyshov 2003, Kobzar 2006, Bely 2011a, Bely & Nikolaichuk 2012, Yatsyna 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013), MO (Yatsyna 2013a): cor, lig Ahi, Bet, Fre, Pic, Pon, Pot, Sor, Qur, Sal, Til.
515. **Rinodina sophodes** (Ach.) A. Massal. – BR (Kobzar 2006), GO (Savicz 1909), GR (Bachmann & Bachmann 1920), MI (Golubkov & Yesis 1997b), VI (Golubkov 1992), no exact locality (Gorbach 1956, 1957): cor, lig Bet, Pot, Qur, Sor.
516. **Rinodina teichophila** (Nyl.) Arnold – GR (Yatsyna 2015d), VI (Kreyer 1913): sil.
517. **Ropalospora viridis** (Tønsberg) Tønsberg – GO (Tsurykau et al. 2016a): cor Pin.
518. **Rusavskia elegans** (Link) S.Y. Kondr. & Kärnefelt – BR (Yatsyna 2010e, 2014d, Yurchenko 2011, Yatsyna & Kondratyuk 2013), GO (Tsurykau 2005, Tsurykau & Khramchankova 2009a, Yatsyna 2010e, Golubkov 2011, Sobchanka et al. 2012, Yatsyna & Kondratyuk 2013), GR (Golubkov 1987, 1993, Yatsyna 2010e, 2010g, 2016c, Yurchenko 2011, Yatsyna & Kondratyuk 2013), MI (Golubkov 1987, 1992, 1993, Yatsyna & Stefanovich 2005, Yatsyna 2010a, 2010e, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013, Yatsyna & Kondratyuk 2013), MO (Yatsyna 2009b, 2010e, Yatsyna & Kondratyuk 2013), VI (Golubkov 1996, Bely & Golubkov 2008, Yatsyna 2008, 2010c, 2010d, 2010e, 2011a, Yatsyna & Kondratyuk 2013): cal, sil.
519. **Sarcogyne regularis** Körb. – GO (Bely & Golubkov 2008), GR (Yurchenko 2011, Golubkov 2014b), MI (Golubkov & Vynaev 1981, Yatsyna 2010a, Yurchenko 2011), VI (Kreyer 1913, Golubkov 1992, Bely & Golubkov 2008, Yatsyna 2010d, 2013f, Yurchenko 2011): cal.

520. **Sarcosagium campestre** (Fr.) Poetsch & Schied. – VI (Yatsyna 2011e, 2017): mus, ter.
521. **+Sarea difformis** (Fr.) Fr. – GO (Yatsyna 2014d), MI (Yatsyna 2011c, 2015c), MO (Yatsyna 2011c), VI (Yatsyna 2011e, 2017): res Pic, Pin.
522. **+Sarea resinae** (Fr.) Kuntze – GO (Golubkov 2010), MI (Yatsyna 2011c, 2014a, 2015c), MO (Lebedeva 1925, Yatsyna 2011c), VI (Yatsyna 2011c, 2011e, 2017): res Pic, Pin, Pis.
523. **Schaereria fuscocinerea** (Nyl.) Clauzade & Roux – VI (Kreyer 1913): cal.
524. **Schismatomma pericleum** (Ach.) Branth & Rostr. – BR (Makarevich 1960), GO (Golubkov 2011, Yatsyna & Motiejūnaite 2015), MI (Kobzar 2006), no exact locality (Gorbach 1962): cor, lig Bet, Pic, Qur.
525. **Sclerophora farinacea** (Chevall.) Chevall. – MI (Yatsyna 2014a, 2016a): cor Fre, Ulm.
526. **Sclerophora pallida** (Pers.) Y.J. Yao & Spooner – BR (Bely & Golubkov 2012), GO (Bely 2011a), GR (Yatsyna 2016a, 2016c), MI (Yatsyna 2011e, 2012c, 2013b, 2013c, 2014a, 2014b, 2015c, 2016a, Yatsyna & Yurchenko 2013), VI (Bely 2011a, Yatsyna 2011a, 2016a): cor Acp, Aln, Fre, Pin, Pot, Sal, Til, Ulm.
527. **Sclerophora peronella** (Ach.) Tibell – MI (Yatsyna 2014a, 2016a), VI (Yatsyna 2013f, 2016a): cor Poc, Til, Ulm.
528. **Scoliciosporum chlorococcum** (Graewe ex Stenh.) Vězda – BR (Golubkov 1987), GO (Golubkov 1992), GR (Makarevich 1960, Golubkov & Khartanovich 2004b, Yatsyna 2010g, Golubkov 2014a), MI (Golubkov 1992, Yatsyna 2010a, 2012b, 2013b, 2013c, 2015c, Bely 2011a, Yatsyna & Yurchenko 2013), VI (Kravchuk 2001, Yurchenko 2011, Bely 2011a, Yatsyna 2013a): cor Abi, Ahi, Aln, Bet, Fre, Pic, Pin, Sor, Til.
529. **Scoliciosporum umbrinum** (Ach.) Arnold – GR (Bachmann & Bachmann 1920), GR (Yatsyna 2016c), MI (Yatsyna 2010h, 2012b, Bely 2011a), VI (Kobzar 2006): cal, cor, sil Fra, Pic, Pot.
530. **Scytinium gelatinosum** (With.) Otálora, P.M. Jørg. & Wedin – GO (Golubkov 1992): cor Sal.
531. **Scytinium lichenoides** (L.) Otálora, P.M. Jørg. & Wedin – GR (Bachmann & Bachmann 1920, Golubkov & Bludov 2005, Golubkov 2013b, Yatsyna 2013d, Yatsyna & Motiejūnaite 2015): cor, mus Sal.
532. **Scytinium subtile** (Schrad.) Otálora, P.M. Jørg. & Wedin – GO (Golubkov 1992), VI (Kreyer 1913, Golubkov & Kobzar 2007, Bely 2011a, 2014): cor, lig, mus, ter Pin, Pot, Qur, Sal.
533. **Scytinium tenuissimum** (Dickson) Otálora, P.M. Jørg. & Wedin – VI (Kreyer 1913): ter.
534. **Sphinctrina turbinata** (Pers.: Fr.) De Not. – BR (Golubkov 1987), GO (Golubkov 1992), no exact locality (Tomin 1939): cor Car, on Pertusaria sp.
535. **Staurothele caesia** (Arnold) Arnold – MI (Yatsyna 2012b): cal.
536. **Staurothele drummondii** (Tuck.) Tuck. – GR (Golubkov 2013b): cal.
537. **Steinia geophana** (Nyl.) Stein – BR (Yatsyna & Motiejūnaite 2015), VI (Gapienko et al. 2014, Yatsyna 2017): mus, ter, on Peltigera didactyla.
538. **+Stenocybe major** Nyl. ex Korb. – GR (Golubkov 2014a), VI (Insarov & Pchelkin 1982): cor Bet Pin.
539. **+Stenocybe pullatula** (Ach.) Stein – GR (Yurchenko 2011), MI (Yatsyna 2014a, 2015c), VI (Titov 2006, Yatsyna 2013f): cor Aln.

540. **Stereocaulon condensatum** Hoffm. – BR (Krawiec 1938, Golubkov 1987, Yatsyna 2013a), GO (Ges 1960, Golubkov 1992), GR (Błoński 1889, Golubkov 1987), MI (Golubkov & Vynaev 1981, Golubkov 1992, Golubkov & Yesis 1997a, Yatsyna & Stefanovich 2005, Golubkov et al. 2013), VI (Kreyer 1913, Golubkov 1992, Yatsyna 2011a, 2011e), no exact locality (Tomin 1937, Golubkov 1992, Kobzar 1998): sil, ter.
541. **Stereocaulon dactylophyllum** Flörke – GR (Bachmann & Bachmann 1920), VI (Golubkov 1992): sil.
542. **Stereocaulon incrustatum** Flörke – BR (Krawiec 1938), GO (Golubkov 2011), GR (Golubkov 1993), VI (Golubkov 1993, Kobzar 2006): sil, ter.
543. **Stereocaulon paschale** (L.) Hoffm. – GO (Gorbach 1973b), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920), MI (Gorbach 1965d, Chernyshov 2003), VI (Gorbach 1973b), no exact locality (Gorbach 1965d, 1973b, Kobzar 1998): ter.
544. **Stereocaulon tomentosum** Fr. – BR (Tessendorff 1922, Krawiec 1938, Gorbach 1973b, Golubkov 1987, Yatsyna 2013a), GO (Savicz 1911, Golubkov & Vynaev 1981), GR (Bachmann & Bachmann 1920, Yatsyna 2010g), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Savicz 1925, Golubkov & Vynaev 1981, Golubkov 1992, Yatsyna & Stefanovich 2005, Yatsyna 2010a, Yurchenko 2011), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1992, Yatsyna 2011a), no exact locality (Golubkov 1992): sil, ter.
545. **Strangospora moriformis** (Ach.) Stein – BR (Golubkov 1987, Yatsyna 2014d), GO (Golubkov 2011), GR (Bachmann & Bachmann 1920), MI (Golubkov & Yesis 1997b, Yatsyna 2013a, 2015a), MO (Yatsyna 2012a, 2013a), VI (Golubkov 1992, Yatsyna 2011a, 2011e, 2013a, 2017): cor, lig Jun, Pin, Pot.
546. **Tephromela atra** (Huds.) Hafellner – GO (Golubkov 1992), GR (Bachmann & Bachmann 1920, Bely & Golubkov 2012, Yatsyna 2016c), MI (Golubkov & Vynaev 1981, Bely & Golubkov 2012, Golubkov et al. 2013), MO (Yatsyna 2009b), VI (Kreyer 1913, Gorbach 1978, Bely & Golubkov 2012), no exact locality (Gorbach 1962): cal, cor, sil Aln, Pot. – Note: Several records of corticolous *T. atra* are included here, but their attribution to this taxon needs confirmation (Nimis 2016).
547. **Tetramelas insignis** (Nägeli ex Hepp) Kalb – BR (Golubkov 1987): cor Aln.
548. **Thelidium minutulum** Körb. – MI (Yatsyna & Yurchenko 2013): cal.
549. **Thelidium zwackhii** (Hepp) A. Massal. – VI (Gapienko et al. 2014): cor Aln.
550. **Thelocarpon impressellum** Nyl. – GR (Golubkov & Kobzar 2005): lig.
551. **Thelocarpon intermediellum** Nyl. – VI (Gapienko et al. 2014): lig Pin.
552. **Thelocarpon laureri** (Flot.) Nyl. – BR (Golubkov 1987), GO (Golubkov 2009b), VI (Kreyer 1913, Golubkov 1996, 2009b, Bely 2011a), no exact locality (Tomin 1956): lig, sil.
553. **#Thelocarpon lichenicola** (Fuckel) Poelt & Hafellner – VI (Yatsyna 2012d, 2017): ter.
554. **Thelotrema lepadinum** (Ach.) Ach. – BR (Golubkov 1987), GO (Golubkov 1992, 2007), GR (Makarevicz 1960, Golubkov 1987), MI (Bely 2011a), MO (Savicz 1925): cor, mus Car, Fre, Pic, Qur.
555. **Thrombium epigaeum** (Pers.) Wallr. – MI (Golubkov & Yesis 1997b): not indicated.
556. **Trapelia coarctata** (Turner ex Sm. & Sow.) M. Choisy – BR (Golubkov 1987), GO (Tsurykau & Khranchankova 2010b), GR (Bachmann & Bachmann 1920), MI (Golubkov & Yesis 1997b, Yurchenko 2011, Golubkov et al. 2013), VI (Golubkov 1992): cal, sil.

557. **Trapelia glebulosa** (Sm.) J.R. Laundon – GR (Bachmann & Bachmann 1920): sil.
558. **Trapelia involuta** (Taylor) Hertel – GO (Savicz 1911) GR (Bachmann & Bachmann 1920) VI (Kreyer 1913): sil.
559. **Trapeliopsis flexuosa** (Fr.) Coppins & P. James – BR (Golubkov 1987, Yurchenko 2011, Yatsyna 2014d), GO (Golubkov 2011, Yatsyna 2013a, Tsurykau & Khranchankova 2015), GR (Yatsyna 2010g, 2013a, Yurchenko 2011, Golubkov 2014a), MI (Bachmann & Bachmann 1920, Yatsyna 2009d, 2010a, 2010f, 2014a, 2015c, Yurchenko 2011), MO (Yatsyna 2013a), VI (Golubkov 1992, Yatsyna 2011e, 2017, Bely 2011a, 2015b), no exact locality (Tomin 1939, Gorbach 1962): cor, lig, ter Bet, Pic, Pin.
560. **Trapeliopsis gelatinosa** (Flörke) Coppins & P. James – GO (Wyssozky et al. 1925): ter.
561. **Trapeliopsis granulosa** (Hoffm.) Lumbsch – BR (Golubkov 1987, Yatsyna 2013a), GO (Golubkov & Vynaev 1981, Golubkov 2011), GR (Yatsyna 2010g, 2013a, Golubkov 2014a), MI (Gorbach 1973b, Golubkov & Vynaev 1981, Yatsyna 2009d), VI (Yatsyna 2010c, 2010f, 2011a, Bely 2011a): cor, lig, ter Pin, Pot.
562. **Trapeliopsis pseudogranulosa** Coppins & P. James – VI (Yatsyna & Motiejūnaite 2015): lig Pin.
563. **Trapeliopsis viridescens** (Schrad.) Coppins & P. James – GR (Yatsyna 2010g), MO (Savicz 1925): lig.
564. **Umbilicaria deusta** (L.) Baumg. – GR (Golubkov 2013a), MI (Yatsyna 2010h, 2013e), VI (Golubkov 1993): sil.
565. **Usnea barbata** (L.) Weber ex F.H. Wigg. – BR (Golubkov 1987, Yurchenko 2011), GO (Ljubitskaja 1914), GR (Gilibert 1781, Golubkov 1987), MI (Bachmann & Bachmann 1920), MO (Savicz & Savicz 1924, Savicz 1925), no exact locality (Makarevicz 1963, Gorbach 1965d): cor Aln, Bet, Pic, Pin, Qur. – Note: The report by Golubkov (2014c) from Berezinsky State Reserve seems to be doubtful as the species is not listed among the literature cited in that work.
566. **Usnea ceratina** Ach. – BR (Golubkov & Kobzar 2005), GR (Golubkov 1987), MI (Bachmann & Bachmann 1920, Bely 2010b), VI (Golubkov 1993, Bely 2008b, 2010b): cor Aln, Bet.
567. **Usnea dasopoga** (Ach.) Nyl. – BR (Krawiec 1938, Golubkov 1987, Kobzar 2006, Bely 2011a, Yatsyna 2013a), GO (Ges 1960, Golubkov & Vynaev 1981, Golubkov 1987, 1992, 2007), GR (Golubkov 1987, 2014a, Kobzar 2006, Yatsyna 2010g, 2013a, 2016c), MI (Bachmann & Bachmann 1920, Oksner 1925, Gorbach 1955, Golubkov & Vynaev 1981, Golubkov 1987, Chernyshov 2003, Kobzar 2006, Yurchenko 2011, Bely 2011a, Yatsyna 2013a), MO (Kobzar 2006, Yatsyna 2009b, 2012a), VI (Gorbach & Osmolovskaya 1965, Gorbach 1973b, 1978, Insarov & Pchelkin 1982, Golubkov 1987, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010f, 2011a, 2017, Bely & Golubkov 2009a, Bely 2011a), no exact locality (Gorbach 1965d, 1973b, Golubkov 1992, Yatsyna 2009e): cor Aln, Bet, Fre, Pic, Pin, Qup, Qur, Sal. – Note: Records of *U. plicata* F.H. Wigg. from Belarus are here referred to *U. dasopoga* (Ach.) Nyl. based on Golubkova (1996). Also, the report by Kreyer (1913) seems to be doubtful based on the variable morphology of mainly juvenile thalli found by Kreyer. The supporting specimens should be reexamined to confirm that this is the case.
568. **Usnea florida** (L.) Weber ex F.H. Wigg. – BR (Golubkov 1987), GO (Kreyer 1913), GR (Gilibert 1781, 1792), MI (Bachmann & Bachmann 1920, Golubkov 1992, Golubkov et al. 2013), MO (Downar 1861, Kreyer 1913, Savicz 1925, Kobzar 2006), VI (Kreyer 1913, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Bely 2008b), no exact locality (Gorbach 1962, 1973b): cor, lig Acp, Aln, Bet, Car, Pin, Pic, Qur, Sal.
569. **Usnea fragilesceus** Hav. – VI (Insarov & Pchelkin 1982): cor Pin.

570. **Usnea fulvorea**gens (Räsänen) Räsänen – BR (Kobzar 2006), GO (Golubkov & Vynaev 1981), MI (Gorbach 1965d, Yurchenko 2011), MO (Yurchenko 2011), VI (Gorbach & Osmolovskaya 1965, Gorbach & Mashenkova 1967, Golubkov & Kobzar 2007), no exact locality (Gorbach 1965d): cor Bet, Pin.
571. **Usnea glabrata** (Ach.) Vain. – MO (Yurchenko 2011), MI (Bachmann & Bachmann 1920): cor Pin.
572. **Usnea glabrescens** (Nyl. ex Vain.) Vain. ex Räsänen – BR (Golubkov 1987), GO (Golubkov 1992), GR (Golubkov 1987), MI (Gorbach 1965d, Golubkov 1992), MO (Savicz 1925), VI (Gorbach & Osmolovskaya 1965, Gorbach & Mashenkova 1967, Golubkov 1992, Golubkov & Kobzar 2007, Bely 2011a), no exact locality (Gorbach 1962): cor Aln, Bet, Pic, Pin, Pot, Qur, Sal.
573. **Usnea hirta** (L.) Weber ex F.H. Wigg. – BR (Tessendorff 1922, Krawiec 1938, Golubkov 1987, Bely 2011a, Yatsyna 2013a, Bely & Kudin 2016), GO (Savicz 1909, Wyssotzky et al. 1925, Ges 1960, Palamarchuk et al. 1975, Lapitskaya et al. 1979, Golubkov & Vynaev 1981, Kravchuk 2000, Tsurykau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsurykau & Khramchankova 2008, Tsurykau et al. 2009, Golubkov 2011, Tsurikova 2013, Yatsyna 2014d), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Golubkov 1987, 2014a, Kobzar 2006, Andreeva et al. 2006, Yatsyna 2010g, 2013a, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Oksner 1924, Savicz & Savicz 1924, Gorbach 1955, Golubkov & Vynaev 1981, Shukanov et al. 1986, Kravchuk & Kakareka 1995, Chernyshov 2003, Kobzar 2006, Yatsyna 2009d, 2010a, 2010f, 2013a, 2013b, 2013c, 2015c, Bely 2011a, 2012c, Yatsyna & Yurchenko 2013), MO (Savicz & Savicz 1924, Savicz 1925, Kravchuk & Kakareka 1998, Yatsyna 2004, 2009b, 2013a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1978, Insarov & Pchelkin 1982, Golubkov 1991, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1962, 1973b, Yatsyna 2009e): cor, fol, lig Abi, Acp, Ahi, Aln, Bet, Car, Fre, Jun, Lar, Pic, Pin, Pis, Poc, Pon, Pot, Qur, Sal, Sor, Til.
574. **Usnea lapponica** Vain. – GO (Tsurykau 2017c), VI (Golubkov & Kobzar 2007): cor Bet, Pin. – The reports by Golubkov (1987, 1992) are based on an incorrect nomenclatural update of *U. fulvorea*gens.
575. **Usnea rubicunda** Stirt. – VI (Insarov & Pchelkin 1982): cor Pin.
576. **Usnea subfloridana** Stirt. – BR (Krawiec 1938, Golubkov 1987), GO (Golubkov & Vynaev 1981, Golubkov 1992, 2007, 2011, Tsurykau 2005, Kobzar 2006, Tsurykau et al. 2009, Tsurikova 2013), GR (Kobzar 2006, Yurchenko 2011, Yatsyna 2013a, Golubkov 2014a), MI (Golubkov & Vynaev 1981, Golubkov 1992, Chernyshov 2003, Kobzar 2006, Yatsyna 2009d, 2010a, Bely 2011a), MO (Kravchuk 2001, Kobzar 2006, Yatsyna 2009b, 2012a, 2013a), VI (Gorbach 1978, Golubkov 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010f, 2011a, 2017, Bely 2011a), no exact locality (Gorbach 1965d, Golubkov 1992): cor, lig Abi, Aln, Bet, Pic, Pin, Pot, Qup, Qur.
577. **Usnea wasmuthii** Räsänen – GO (Tsurykau & Tsurikova 2017): cor Pin.
578. **Varicellaria hemisphaerica** (Flörke) I. Schmitt & Lumbsch – VI (Gorbach 1970): cor Pin.
579. **Varicellaria lactea** (L.) I. Schmitt & Lumbsch – MI (Golubkov & Vynaev 1981), GR (Gilibert 1781): sil. – Note: The report of *V. lactea* by Gorbach (1973b) is based on an incorrect nomenclatural update of historical report of *Variolaria lactea* var. *arborea* by Kreyer (1913). However, the latter name corresponds to *Ochrolechia arborea* (Ljubitzkaja 1914).
580. **Variospora aurantia** (Pers.) Arup, Søchting & Frödén – GR (Yurchenko 2011), VI (Yurchenko 2011): cal.
581. **Verrucaria aethiobola** Wahlenb. – BR (Golubkov 1987), GR (Golubkov 1987), MI (Golubkov & Vynaev 1981, Yatsyna 2010a), VI (Bachmann & Bachmann 1920, Golubkov 1992, Yatsyna 2011e): cal, sil.
582. **Verrucaria floerkeana** Dalla Torre & Sarnth. – VI (Bachmann & Bachmann 1920): cal.

583. **Verrucaria fusca** Pers. – GO (Gorbach 1973b), GR (Bachmann & Bachmann 1920, Yatsyna 2016c), VI (Yatsyna 2011a): sil, ter.
584. **Verrucaria hydrela** Ach. – VI (Yatsyna 2013f, 2017): sil. – Note: The report by Yurchenko (2011) based on an incorrect nomenclatural update of *V. laevata* from the historical report of Bachmann and Bachmann (1920).
585. **Verrucaria madida** Orange – VI (Yatsyna 2013f): sil.
586. **Verrucaria muralis** Ach. – GO (Tsurukau & Khranchankova 2011a), GR (Yatsyna 2016c), MI (Golubkov & Vynaev 1981, Yatsyna 2005, 2013b, 2013b, Yurchenko 2011, Yatsyna & Yurchenko 2013), VI (Kreyer 1913, Gorbach 1973b, Yatsyna 2010c, 2011a), no exact locality (Gorbach 1973b, Golubkov 1992): cal, sil.
587. **Verrucaria nigrescens** Pers. – GO (Golubkov 2011), GR (Bachmann & Bachmann 1920, Golubkov 1987, 2014a, 2014b, Yurchenko 2011, Yatsyna 2016c), MI (Gorbach 1973b, Golubkov & Vynaev 1981, Yatsyna & Stefanovich 2005, Yatsyna 2010a, 2013a, 2013b, 2013c, 2014a, 2014b, 2015c, Yatsyna & Yurchenko 2013), MO (Yatsyna 2009b), VI (Kreyer 1913, Bachmann & Bachmann 1920, Golubkov 1992, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2010c, 2010d, 2011a): cal, sil.
588. **Verrucaria praetermissa** (Trevis.) Anzi – VI (Yatsyna 2013f): cor, sil Aln.
589. **Verrucaria rupestris** Schrad. – VI (Bachmann & Bachmann 1920): cal.
590. **Veizdaea aestivalis** (Ohlert) Tscherm.-Woess & Poelt – VI (Yatsyna 2011a, Gapienko et al. 2014): mus, ter.
591. **Veizdaea leprosa** (P. James) Vězda – VI (Gapienko et al. 2014): cor Acp.
592. **Violella fucata** (Stirt.) T. Sprib. – GO (Tsurukau et al. 2014a), GR (Tsurukau et al. 2014a), MO (Tsurukau et al. 2014a): cor Pin.
593. **Xanthomendoza coppinsii** S.Y. Kondr. & Kärnefelt – GR (Golubkov 2013a, Yatsyna & Kondratyuk 2013, Yatsyna 2016c), MI (Yatsyna 2013c, 2014a, Yatsyna & Kondratyuk 2013), VI (Golubkov 2013a): cor Acp, Fre, Qur, Til, Ulm.
594. **Xanthomendoza fulva** (Hoffm.) Søchting, Kärnefelt & S.Y. Kondr. – GO (Tsurukau & Kondratyuk 2011), GR (Yatsyna 2016c), MI (Yatsyna 2013b, 2013c, 2014a, Yatsyna & Kondratyuk 2013), VI (Yatsyna 2010e): cor Acp, Fre, Til, Ulm.
595. **Xanthomendoza huculica** (S.Y. Kondr.) Diederich – BR (Bely & Golubkov 2012, Yatsyna & Kondratyuk 2013), GO (Ges 1960, Kravchuk 2001, Tsurukau & Khranchankova 2007, 2008), GR (Golubkov & Khartanovich 2004a, 2004b, 2005, Yatsyna 2010e, 2016c, Bely & Golubkov 2012), MI (Golubkov & Yesis 1997a, Kravchuk 2001, Yatsyna & Stefanovich 2005, Yatsyna 2005, 2010e, 2013b, 2013c, 2014a, 2014b, 2015c, Bely & Golubkov 2012, Yatsyna & Yurchenko 2013, Yatsyna & Kondratyuk 2013), MO (Yatsyna 2010e, Yatsyna & Kondratyuk 2013), VI (Bely & Golubkov 2012, Yatsyna & Kondratyuk 2013): cal, cor Acn, Acp, Ahi, Bet, Fre, Poa, Pob, Pon, Pot, Qur, Rob, Til, Ulm.
596. **Xanthomendoza ulophyllodes** (Räsänen) Søchting, Kärnefelt & S.Y. Kondr. – MI (Yatsyna 2013b, 2014a, 2014b, 2015c): cor Fre, Poc, Til.
597. **Xanthoparmelia conspersa** (Ehrh. ex Ach.) Hale – BR (Golubkov 1987, Golubkov et al. 2007b), GO (Kobzar 2006, Golubkov et al. 2007a, Tsurukau & Khranchankova 2009b), GR (Bachmann & Bachmann 1920, Golubkov 1992, 1997, 2014a, Kobzar 2006, Yatsyna 2010g, 2016c), MI (Oksner 1924, Golubkov & Vynaev 1981, Golubkov & Rykovsky 1988, Golubkov 1997, Chernyshov 2003, Kobzar 2006, Yatsyna 2010a, 2012c, 2013a, 2013c, 2014a, Yurchenko 2011, Yatsyna & Yurchenko 2013), MO (Savicz 1925,

- Yatsyna 2009b), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach 1965d, Golubkov 1992, 1997, Yatsyna 2010c, 2010d, 2011a), no exact locality (Gorbach 1965d): sil.
598. **Xanthoparmelia loxodes** (Nyl.) O. Blanco, A. Crespo, Elix, D. Hawksw. & Lumbsch – GR (Golubkov et al. 2007b, Bely & Golubkov 2009a, Yatsyna 2016c), MI (Golubkov & Yesis 1997a, Bely & Golubkov 2009a, Yurchenko 2011), MO (Golubkov et al. 2007b, Yatsyna 2009b), VI (Golubkov et al. 2007b, Bely & Golubkov 2009a, Yatsyna 2010c): sil.
599. **Xanthoparmelia pulla** (Ach.) O. Blanco, A. Crespo, Elix, D. Hawksw. & Lumbsch – BR (Golubkov 1987, Golubkov et al. 2007b), GO (Golubkov & Vynaev 1981, Tsuryskau & Khranchankova 2009b), GR (Bachmann & Bachmann 1920, Golubkov 1997, 2014a, Kobzar 2006, Yatsyna 2010g, 2016c), MI (Oksner 1925, Golubkov & Vynaev 1981, Yatsyna 2005, 2010a, 2014a, Kobzar 2006, Yurchenko 2011, Yatsyna & Yurchenko 2013), MO (Yatsyna 2009b), VI (Kreyer 1913, Gorbach 1965d, Golubkov 1992, 1997, Golubkov & Kobzar 2007, Golubkov et al. 2007b, Yatsyna 2010c): sil.
600. **Xanthoparmelia angustiphylla** (Gyeln.) Hale. – GR (Golubkov et al. 2007b), MI (Bely & Golubkov 2012), VI (Golubkov 1992), no exact locality (Yatsyna 2009e): sil.
601. **Xanthoparmelia verruculifera** (Nyl.) O. Blanco, A. Crespo, Elix, D. Hawksw. & Lumbsch – BR (Golubkov 1987, 1992, Golubkov et al. 2007b), GO (Golubkov 2007), GR (Bachmann & Bachmann 1920, Golubkov 1997, Golubkov et al. 2007b, Yatsyna 2010g), MI (Gorbach 1965d, Golubkov & Vynaev 1981, Golubkov 1987, 1997, Yatsyna 2010a, Golubkov et al. 2013), MO (Golubkov et al. 2007b), VI (Golubkov 1987, 1991, 1992, Golubkov & Kobzar 2007, Golubkov et al. 2007b, Yatsyna 2010c): sil.
602. **Xanthoria parietina** (L.) Th. Fr. – BR (Suza 1928, Krawiec 1938, Golubkov 1987, Kobzar 2006, Yatsyna 2010e, 2014d, Bely 2011a, Padtsiarob et al. 2013, Bely & Kudin 2016), GO (Savicz 1909, Kreyer 1913, Wyssotzky et al. 1925, Ges 1960, Danilchuk et al. 1976, Golubkov & Vynaev 1981, Kravchuk 2000, 2001, Tsuryskau 2004, 2005, 2010, Timoshenkova & Tsuryskau 2005, Kobzar 2006, Golubkov et al. 2007a, Tsuryskau et al. 2007, 2009, Tsuryskau & Khranchankova 2008, 2010a, Bely 2010a, 2011a, Yatsyna 2010e, Yurchenko 2011, Golubkov 2011, Sobchanka et al. 2012, Padtsiarob et al. 2013, Tsuryskau & Etayo 2017, Tsuryskau & Tsurikova 2017), GR (Gilibert 1781, 1792, Bachmann & Bachmann 1920, Gorbach 1978, Golubkov 1987, 2014a, Kravchuk 2001, Golubkov & Khartanovich 2004a, 2004b, 2005, Kobzar 2006, Andreeva et al. 2006, Valko 2008, Yatsyna 2010e, 2010g, 2016c, Bely 2011a), MI (Bachmann & Bachmann 1920, Savicz 1925, Gorbach 1955, 1961, Golubkov & Vynaev 1981, Shukanov et al. 1986, Kravchuk & Kakareka 1995, Vyazovskaya & Golubkov 1997, Kobzar 1997, 2006, Yurchenko & Golubkov 2003, Chernyshov 2003, 2004c, Yatsyna 2005, 2010a, 2010e, 2012b, 2012c, 2013b, 2013c, 2014a, 2014b, Mavrishev & Dyukova 2008a, Bely 2010c, 2011a, Yurchenko 2011, Bely & Nikolaichuk 2012, Yatsyna & Yurchenko 2013, Padtsiarob et al. 2013, Padtsiarob & Bely 2015, Dobysh & Gaevskii 2016), MO (Downar 1861, Kreyer 1913, Savicz & Savicz 1924, Savicz 1925, Kravchuk & Kakareka 1998, Yurchenko & Golubkov 2003, Kobzar 2006, Yatsyna 2009b, Yatsyna 2010e, Bely 2011a, Tsuryskau et al. 2016a), VI (Kreyer 1913, Bachmann & Bachmann 1920, Gorbach & Mashenkova 1967, Gorbach 1978, Golubkov 1991, Kobzar 2006, Golubkov & Kobzar 2007, Yatsyna 2008, 2010c, 2010d, 2010e, 2011a, 2017, Yurchenko 2011, Bely 2011a, Padtsiarob et al. 2013), no exact locality (Gorbach 1956, 1957, Bely 2013): cal, cor, fol, lig, met, sil Abi, Acd, Acn, Acp, Acr, Acs, Act, Ahi, Aln, Bet, Car, Coa, Euo, Fra, Fre, Jug, Lar, Mal, Pce, Pdi, Pdo, Pic, Pin, Pma, Poa, Pob, Poc, Pon, Pot, Ppa, Pse, Pyr, Qur, Rob, Sal, Sor, Til, Ulm.
603. **Xanthoria polessica** S.Y. Kondr. & A.P. Yatsyna – BR (Kondratyuk et al. 2013), GO (Kondratyuk et al. 2013), GR (Kondratyuk et al. 2013), MI (Kondratyuk et al. 2013, Yatsyna 2014a), MO (Kondratyuk et al. 2013): cor, lig Acp, Ahi, Fre, Pot, Qur, Sal, Til, Ulm.
604. **Xylographa parallela** (Ach.: Fr.) Fr. – GO (Golubkov 1992, 2011), GR (Bachmann & Bachmann 1920), MI (Bachmann & Bachmann 1920, Yatsyna 2015a), VI (Kreyer 1913, Gorbach 1973b, Kobzar 1985, Yatsyna 2010c): cor, lig Bet, Pic, Pin.
605. **Xylopsora friesii** (Ach.) Bendiksby & Timdal – GO (Tsuryskau & Khranchankova 2015, Tsuryskau 2017c), VI (Bely & Sidorovich 2013): cor, lig, roo Pin.

606. **Zwackhia viridis** (Ach.) Poetsch & Schied. – BR (Golubkov 1987), GO (Tsurykau & Khranchankova 2009b, Yurchenko 2011), GR (Golubkov 1987), MO (Tomin 1939, Yatsyna 2012a), VI (Yatsyna 2011e), no exact locality (Yatsyna 2009e): cor Car, Fre, Qur. – Note: The report by Golubkov (1992) may be erroneous because the species was not listed in subsequent papers (e.g. Golubkov 2011).

EXCLUDED AND DOUBTFUL SPECIES

- Acarospora nitrophila** H. Magn. – This is currently considered to be a rare saxicolous species only known with certainty from Norway and Sweden (Knudsen & Kocourková 2017). Evidently, the specimen identified by Yurchenko (2011) should be critically revised.
- Acarospora peliocypha** (Wahlenb.) Th. Fr. – This species was reported by Yatsyna and Merzhvinsky (2012) who referred to Bachmann and Bachmann (1920). However, the species was not cited in the latter publication.
- Arrhenia griseopallida** (Desm.) Watling – This species was reported as *Omphalina griseopallida* (Desm.) Quel. by Yurchenko (2011), but it is a Basidiomycete that is no longer considered to be lichenized.
- Arthonia apatetica** (A. Massal.) Th. Fr. – The report of this species is based on an incorrect nomenclatural update of *A. exilis* by Yurchenko (2011) and Yatsyna & Merzhvinsky (2012). The original report should be treated as *A. exilis* (Makarevicz 1960).
- Aspicilia trachytica** (A. Massal.) Arnold – This species was reported by Yurchenko (2011) without additional information. According to Nimis (2016), it is a very poorly known silicicolous species from in the Mediterranean area, southern central Europe and Iran. Further study is needed before including it in the checklist for Belarus.
- Bacidia coprodes** (Körb.) Lettau – This species was reported by Kreyer (1913) as well as Bachmann and Bachmann (1920). These reports were doubted by Oksner (1968), however, and the description and ecology of the taxon in these early reports do not match those of (Ekman 2014). Further study is needed before including it in the checklist for Belarus.
- Bacidia trachona** (Ach.) Körb. – This name was erroneously cited by Tomin (1937, 1956) and later by Yurchenko (2011) as a synonym of *B. coprodes* (Ekman 2014). The species has not been documented from Belarus.
- Bellemeria cinereorufescens** (Ach.) Clauzade & Cl. Roux – This species was reported by Yatsyna and Merzhvinsky (2012) who referred to Golubkov without a specific citation of a source. However, the name was not located in any of Golubkov's published contributions. According to Nimis (2016), *B. cinereorufescens* grows on metal-rich siliceous rocks in upland areas. Further study is needed before including in the checklist for Belarus.
- Bilimbia microcarpa** (Th.Fr.) Th.Fr. – This species was reported as *Myxobilimbia cf. microcarpa* (Th. Fr.) Hafellner by Yurchenko (2011). However, the description does not clearly fit *B. microcarpa* and therefore it seems premature to accept this arctic-alpine species as occurring in the region. Further study is needed before including in the checklist for Belarus.
- Brianaria bauschiana** (Körb.) S. Ekman & M. Svensson – This species was reported as *Micarea bauschiana* (Körb.) V. Wirth & Vězda based on an incorrect nomenclatural update of *Lecidea lynceola* Th. Fr. by Yatsyna and Merzhvinsky (2012). Following to the description by Bachmann and Bachmann (1920), the original report should be treated as *Micarea lynceola*. For its part, *B. bauschiana* has an oceanic distribution that reaches the eastern edge of its European distribution in Poland (Czarnota 2007).
- Bryoria bicolor** (Ehrh.) Brodo & D. Hawksw. – This taxon was reported by Yurchenko (2011) and Yatsyna and Merzhvinsky (2012) based on an update of the synonym *Alectoria bicolor* (Ehrh.) Nyl. Both reports are based on Krawiec (1938). However, Krawiec reported the species from the vicinity of Białowieża village, which is now in Poland.
- Bryoria lanestris** (Ach.) Brodo & D. Hawksw. – This species was reported by Yatsyna and Merzhvinsky (2012) who referred publication by Golubkov without a specific citation of a source. However, the species was not located in any of Golubkov's published contributions. The identification of the single specimen stored in MSK is questionable and requires further study (Golubkov, pers. comm.).
- Bryoria subcana** (Nyl. ex Stizenb.) Brodo & D. Hawksw. – This species was reported as *Alectoria haynaldii* Gyeln. by Gorbach (1965a, 1965d, 1973b) who noted positive K and P (both yellow)

- spot test reactions in her papers and handbooks. *Bryoria subcana* produces fumarprotocetraric acid and has a strong positive P red reaction in the cortex (Myllys et al. 2011). Given the inconsistency in the spot test reactions, all Belarusian reports of *A. haynaldii* and *B. subcana* are temporarily treated as *B. capillaris* pending further study.
- Byssoloma leucoblepharum** (Nyl.) Vain. – This crustose species was reported by Yurchenko (2011) based on a historical report of *Byssoloma tricholomum* (Mont.) Zahlbr. by Savicz and Savicz (1924). Following Makarevicz (1977c), the material in LE collected by Savicz and Savicz belongs to *Byssoloma subdiscordans* (Nyl.) P. James.
- Caloplaca aractina** (Fr.) Häyrén – This species was reported by Kondratyuk et al. (2004) based on a historical report by Kreyer (1913). However, *Placodium gilvum* (Hoffm.) Vain. var. *aractina* (Fr.) Th. Fr., as reported by Kreyer, much more likely corresponds to the closely related and widespread *C. chlorina*, which is known from Belarus. *Caloplaca aractina* is a species of coastal rock outcrops (Fletcher & Laundon 2009), and this habitat is not present in Belarus, hence the occurrence of the species is unlikely.
- Caloplaca percrocata** (Arnold) J. Steiner – This species was reported by Kondratyuk et al. (2004) with no additional information. In neighboring countries, *C. percrocata* is confined to mountainous areas and was reported from alpine belt (Wilk & Flakus 2006, Vondrák et al. 2010). Therefore, this record is temporarily treated as doubtful pending further study.
- Caloplaca virescens** (Sm.) Coppins – This species was reported by Yatsyna (2013c, 2014a, 2015c). According to Šoun et al. (2011), the identity of *C. virescens* is unclear. Hence it is excluded from the present checklist pending further study.
- Caloplaca viridirufa** (Ach.) Zahlbr. – Gorbach (1973b) reported this species based on historical report of *Placodium gilvum* (Hoffm.) Vain. var. *aractina* (Fr.) Th. Fr. by Kreyer (1913). However, the report corresponds to *C. chlorina* (see note under *Caloplaca aractina*).
- Catillaria chalybeia** (Borrer) A. Massal. – This species was reported by Tomin (1939), who cited Kreyer (1913). However, the species was not mentioned by Kreyer, and thus it is not included in the present list.
- Catillaria lenticularis** (Ach.) Th. Fr. – This species was reported as *Biatorina lenticularis* (Ach.) Körb. var. *vulgaris* Körb. by Kreyer (1913). However, the report apparently does not refer to this species as the description (dark-olive tips of paraphyses, and large ascospores, 10.4–13 × 4–5 µm) and ecology (aspen bark) do not correspond to the current understanding of the taxon (e.g. Hertel et al. 2007).
- Cetraria juniperina** (L.) Ach. – The report of this species is based on a doubtful record with no collection data (Rassadina 1971). No specimen from Belarus has been found in LE (Gagarina, pers. comm.) and the species is excluded from the present checklist.
- Cerothallia luteoalba** (Turner) Arup, Frödén & Søchting – Bely (2011a) reported this species as *Caloplaca luteoalba* (Turner) Th. Fr.; however, the vouchers were misidentified and belong to other species (Bely, pers. comm.).
- Cladonia brevis** (Sandst.) Sandst. – Yatsyna (2014c) reported this species without specific data as to its occurrence and ecology. According to Ahti and Stenroos (2013), TLC is needed to separate the species from the morphologically indistinguishable *C. polycarpoides* Nyl. and other similar taxa. Hence it is excluded from the present checklist pending further study.
- Cladonia ciliata** Stirt. – This species was reported by Yatsyna (2009c), but the vouchers instead belong to *C. tenuis* (Golubkov et al. 2013).
- Cladonia humilis** (With.) J.R. Laundon – This species was incorrectly reported by Golubkov and Yesis (1997a) and Bely (2011a); subsequent revision of the material by Tsurykau & Golubkov (2015) showed that it belonged to other species.
- Cladonia macroceras** (Delise) Hav. – This taxon was reported by Tsetterman (1948) as *Cladonia elongata* (Jacq.) Hoffm., which is almost certainly based on the nomenclatural update of *C. gracilis* var. *elongata* (Jacq.) Flörke (Bachmann & Bachmann 1920). The original report can be treated as *C. gracilis* ssp. *elongata* (Wulfen) Vain. because no morphological evidence was provided to accept *C. macroceras*, an arctic-alpine species, as occurring in the territory of Belarus. The report of *C. elongata* f. *ceratostelis* Flot. comb. inval. (Gorbach 1973b) seems to be doubtful and the entry should be treated as *C. gracilis* f. *ceratostelis* Flot. Vouchers assigned to *C. macroceras* by Bely (2010a, 2011b) were misidentified and belong to other species (Bely, pers. comm.). Furthermore, its occurrence in Belarus was already doubted by T. Ahti (see Yuchenko 2011).

- Cladonia polycephala** Hoffm. nom. illeg. – Yurchenko (2011) reported this species based on Jundzill (1830). However, that historical report cited no exact locality, and covered a large geographic area including modern Belarus, Lithuania, Poland and Ukraine. The species is excluded from the present list pending further study.
- Coniocarpon cinnabarinum** DC. – This species was reported as *Arthonia cinnabarina* (DC.) Wallr. by Makarevicz (1977a). However, the report did not include any specific data for the record, and no voucher from Belarus has been found in LE (Gagarina, pers. comm.). As such, the species is not included in the present checklist.
- Cyphelium inquinans** (Sm.) Trevis. – This species was reported by Roms (1975) without any specific information as to the provenance or ecology of the material. No specimen from Belarus has been found in LE (Gagarina, pers. comm.). As such the species is not included in the present checklist.
- Cyphelium lucidum** (Th. Fr.) Th. Fr. – This species was reported by Roms (1975) without any specific information as to the provenance or ecology of the material. No specimen from Belarus has been found in LE (Gagarina, pers. comm.). As such, the species is not included in the present checklist.
- Diplotomma nivalis** (Begl. & Carestia) Hafellner – This species parasitizes *Rusavskia elegans* thalli growing on rocks (Bungartz et al. 2007), and therefore the report based on an historic corticolous specimen (Yurchenko 2011) is extremely unlikely to be this species. It is not included in the present checklist.
- Frutidella caesioatra** (Schaer.) Kalb – This species was reported by Andreev (2003a) without any specific information as to the provenance or ecology of the material. No specimen from Belarus has been found in LE (Gagarina, pers. comm.). As such, the species is not included in the present checklist.
- Fuscopannaria praetermissa** (Nyl.) P.M. Jørg. – Yurchenko (2011) reported this species based on to the report of *Lecidea vesicularis* in Jundzill (1830). However, that historical report cited no exact locality, and covered a large geographic area including modern Belarus, Lithuania, Poland and Ukraine. The species is excluded from the present list pending further study.
- Halecania rhypodiza** (Nyl.) Coppins – Golubkov (1992) reported this species, but the vouchers instead belong to *Mycobilimbia pilularis* (Golubkov & Kobzar 2007).
- Hypocenomys caradocensis** (Leight. ex Nyl.) P. James & Gotth. Schneid. – This species was mentioned by Yatsyna (2014c) without any specific information as to the provenance or ecology of the material. It was also not been included in the latest summary of new Belarusian records (Yatsyna & Motiejūnaite 2015). The species is excluded from the present list pending further study.
- Lathagrium fuscovirens** (With.) Otálora, P.M. Jørg. & Wedin – This species was reported as *Collema fuscovirens* (With.) J.R. Laundon by Yurchenko (2011) and Yatsyna & Merzhvinsky (2012) based on a nomenclatural update of *Parmelia furva* (Ach.) Ach. in Jundzill (1830). However, that historical report cited no exact locality, and covered a large geographic area including modern Belarus, Lithuania, Poland and Ukraine. The species is excluded from the present list pending further study.
- Lecanactis abietina** (Ach.) Körb. – Yurchenko (2011) reported this species based on a nomenclatural update of *Schismatomma abietinum* (Humb.) A. Massal. nom. illeg. published in Golubkov (1987, 1992). However, Golubkov cited Makarevich (1960) and Gorbach (1962, 1973) who reported *Schismatomma pericleum* rather than *S. abietinum*. As such *L. abietina* is not included on the present list.
- Lecania prasinoides** Elenk. – This species was reported by Savicz (1925), Gorbach (1955), Gorbach & Mashenkova (1967), Golubkov & Vynaev (1981) and Golubkov (1987). However, the reports almost certainly do not refer to this species based on their ecology and descriptions (see also Motiejūnaite & Czyżewska 2008). Some of these reports were already considered questionable by Golubkov et al. (2013). Further study is needed before *L. prasinoides* should be included in the checklist for Belarus.
- Lecanora cadubriae** (A. Massal.) Hedl. – This report was based on a nomenclatural update of *Lecidea obscurella* (Sommerf.) Arnold by Yurchenko (2011). However, the latter name could refer to either *L. cadubriae* and *L. phaeostigma* (see Nimis 2016). The original report (Bachmann & Bachmann 1920) probably refers to *L. phaeostigma*, which was recently confirmed from Belarus (Golubkov 1997, 2011). For its part, *L. cadubriae* is a montane species growing mainly at elevations above 1500 m (e.g. Ryan et al. 2004, Nimis 2016), and thus its occurrence in Belarus is unlikely. As the Bachmann herbarium was destroyed during World War II, there is no chance to reexamine the supporting voucher.

- Lecanora conferta** (Duby ex Fr.) Grognot – This report was based on an incorrect nomenclatural update of *Lecanora lithophila* Oksner by Yurchenko (2011). The latter species was also erroneously reported for Belarus (see below), however, it differs in having negative C reaction, as well as a darker, finely granular thallus (e.g. Makarevicz 1971b).
- Lecanora intricata** (Ach.) Ach. – This report was based on an incorrect nomenclatural update of *Lecanora mutabilis* (Ach.) Nyl. by Yatsyna and Merzhvinsky (2012). The original report belongs to *Megaspora verrucosa* (Gorbach 1962). *Lecanora intricata* was also reported by Kobzar (2006) from Aspen bark. However, this is a saxicolous species rarely inhabiting worked wood (e.g. Ryan et al. 2004). As such, the latter report seems doubtful, especially given that no description was provided. The species is excluded from the present list pending further study.
- Lecanora lithophila** (Wallr.) Oksner – This species was reported by Tomin (1956) and Kobzar (1983). Tomin referred to Kreyer (1913) who reported *Lecanora umbrina* (Ehrh.) A. Massal. var. *lithophila* (Wallr.) Körb., which is now treated as *Lecanora umbrina*. The report of Kobzar (1983) should be treated as *Myriolecis dispersa*. Yatsyna and Merzhvinsky (2012) mentioned this species referring to Bachmann & Bachmann (1920: 330), but the species was not actually cited by the latter authors.
- Lecanora strobilina** (Spreng.) Kieff. – This report was based on an incorrect nomenclatural update of *Lecanora conizaea* (Ach.) Nyl. by Tsurukau and Khranchankova (2010b). The original report belongs to *Lecanora expallens* (Kravchuk 2001).
- Lecanora subcarnea** (Lilj.) Ach. – This species was reported by Yurchenko (2011), accompanied by description from Makarevicz (1971b) that does not match modern concept of this species (e.g., Edwards et al. 2009). As no TLC data were provided, the identification seems to be doubtful and the species is not included in the present list.
- Lecidea lapicida** (Ach.) Ach. – Yurchenko (2011) reported this species based on Jundzill (1830). However, that historical report cited no exact locality, and covered a large geographic area including modern Belarus, Lithuania, Poland and Ukraine. The species is excluded from the present list pending further study.
- Lecidea plana** (J. Lahm) Nyl. – This report by Yurchenko (2011) and Yatsyna & Merzhvinsky (2012) was based on a nomenclatural update of *Lecidea latypea* Ach. that was reported by Kreyer (1913). However, Kreyer (1913) mentioned a positive yellow spot test reaction with KOH, and therefore the original report almost certainly corresponds to *Lecidella carpathica*.
- Lecidella scabra** (Taylor) Hertel & Leuckert – This species was reported by Andreev (2003b). However, the report did not include any specific data for the record, and no voucher from Belarus has been found in LE (Gagarina, pers. comm.). As such, the species is not included in the present checklist.
- Melaspilea enteroleuca** (Ach.) Ertz & Diederich – This species was reported as *Lecidea enteroleuca* Ach. by Bachmann and Bachmann (1920) based on material from siliceous rock. According to Ertz and Diederich (2015) it is corticolous species, and the historical report likely instead refers to a *Lecidella* species.
- Melaspilea urceolata** (Fr.) Ertz & Diederich – This species was reported as *Dactylospora urceolata* (Th. Fr.) Arnold by Yurchenko (2011) based on a nomenclatural update of *Lecidea enteroleuca* Ach. As is discussed under *M. enteroleuca*, the original report by Bachmann and Bachmann (1920) is almost certainly erroneous.
- Mycobilimbia tetramera** (De Not.) Vitik., Ahti, Kuusinen, Lommi & T. Ulvinen ex Hafellner & Türk – This species was reported as *Biatora tetramera* (De Not.) Coppins by Golubkov (2011). However, *M. tetramera* is arctic-alpine species that is confined to high elevations (ca. 3500 m) in the region (Ekman 2004). The reported ecology and description are a much better fit for *Lecanora phaeostigma*.
- Nephroma laevigatum** Ach. – Savicz (1925) reported this species; however, the specimen belongs to *Nephroma bellum* (Golubkov, pers. comm.).
- Ochrolechia androgyna** (Hoffm.) Arnold – This species was reported by Tomin (1956) and Gorbach (1962) who referred to Krawiec (1938). However, Krawiec found this species in the vicinities of Pohulanka village, which is in now part of Lithuania. The material cited by Golubkov (1987, 1992), Bely & Golubkov (2009a) and Bely (2010a, 2011a) contain variolaric and lichesterinic acids, and instead belong to *O. microstictoides*.
- Ochrolechia parella** (L.) A. Massal. – This species was reported by several authors. Gorbach (1962) reported corticolous material growing on *Carpinus betulus* bark. According to Kukwa (2011), the

- species is saxicolous. The specimen reported by Ges (1960) is sorediate, contains variolaric and lichesterinic acids, and thus belongs to *O. microstictoides*. The species was also mentioned by Tomin (1939) referring to Savicz without a specific citation of a source. However, the species was not located in any of Savicz's published contributions.
- Ochrolechia turneri** (Sw.) Hasselrot – This species was reported by Makarevicz (1971c) and Gorbach (1973). The material instead refers to *O. microstictoides* and *O. turneri* should be excluded from the checklist pending further study.
- Pachnolepia pruinata** (Pers.) Frisch & G. Thor – This species was reported as *Arthonia impolita* (Ehrh.) Borr. by Tomin (1956) who referred to Bachmann and Bachmann (1920). However, the latter species was not mentioned by those authors.
- Parmelia submontana** Nád. ex Hale – This species was erroneously reported for Belarus by Hawksworth et al. (2008). No specimen from Belarus has been found in H (Ahti, pers. comm.) and the species is excluded from the present checklist.
- Parmotrema chinense** (Osbeck) Hale & Ahti – Previous reports of this species were based on nomenclatural updates of *Parmelia perlata* (L.) Ach. (Tsurykau & Khranchankova 2011a, Yurchenko 2011). However, the original reports belong to *Cetrelia* species and not to *P. chinense* (see Bely et al. 2011).
- Peltigera occidentalis** (Å.E. Dahl) Kristinsson – Yurchenko (2011) reported this species based on a specimen referred by Zavarzin to the *P. occidentalis-polydactylon* group. As the species was not mentioned by Golubkov and Zavarzin (2010) in the revision of Belarusian *Peltigera*, the authors seem not to have the accepted earlier determination. Furthermore, the species typically grows in subalpine and alpine communities, and thus would be out of place in Belarus (Vitikainen 2007). The species is excluded from the present list pending further study.
- Peltigera venosa** (L.) Hoffm. – This species was reported by Yurchenko (2011) and Yatsyna and Merzhvinsky (2012). Yurchenko (2011) referred to the historical report by Jundzill (1830). However, that report cited no exact locality, and covered a large geographic area including modern Belarus, Lithuania, Poland and Ukraine. Thus it is unclear whether the species was really located in Belarus. Yatsyna & Merzhvinsky (2012) based their report on a nomenclatural update of *Lichen venosus* Gilib. *nom. illeg.* (Gilibert 1792). However, that name corresponds to *P. canina* and not *P. venosa*.
- Pertusaria glomerata** (Ach.) Schaer. – This is an arctic-alpine lichen, found in sites with a long-term snow cover (Nimis 2016). The report by Bachmann & Bachmann (1920) is doubtful (see Makarevicz 1971a) and it is not included in the present checklist.
- Phaeographis dendritica** (Ach.) Müll. Arg. – This species was reported by Yurchenko (2011) and Yatsyna and Merzhvinsky (2012) based on a nomenclatural update of “*Platygramme dendritica*” in Jundzill (1830). However, that historical report cited no exact locality, and covered a large geographic area including modern Belarus, Lithuania, Poland and Ukraine. The species is excluded from the present list pending further study.
- Physconia leucoleiptes** (Tuck.) Essl. – This taxon was listed by Tsurykau & Khranchankova (2010b) and Yurchenko (2011) based on historic reports of *Physcia leucoleiptes* (Tuck.) Lettau by Bachmann and Bachmann (1920) and Wyssotzky et al. (1925). However, *P. leucoleiptes* does not occur in Europe (Esslinger 2002) and is not included in the present checklist. Although the descriptions in Bachmann and Bachmann (1920) and Wyssotzky et al. (1925) are incomplete, the reports are provisionally listed under *P. detersa* based the fact they were described as having a black lower surface and white-pruinose upper cortex. The supporting specimens should be reexamined to confirm that this is the case.
- Physconia venusta** (Ach.) Poelt – This species was reported by Golubkov (1987, 1992, 2011, 2014a), Golubkov & Kobzar (2007) and Tsurykau & Khranchankova (2007), but the specimens belong to *P. distorta*. Furthermore, the distribution of *P. venusta* is centered in the mediterranean mountains (Nimis 2016).
- Protomicarea limosa** (Ach.) Hafellner – This species was reported by Yurchenko (2011) and Yatsyna and Merzhvinsky (2012) based on a nomenclatural update of *Lecidea limosa* Ach. in Jundzill (1830). However, that historical report cited no exact locality, and covered a large geographic area including modern Belarus, Lithuania, Poland and Ukraine. The species is excluded from the present list pending further study.

- Pseudosagedia borreri** (Trevis.) Hafellner & Kalb – This species was reported by Yurchenko (2011) based on a nomenclatural update of *Verrucaria olivacea* Pers. which was reported by Jundzill (1830). However, that historical report cited no exact locality, and covered a large geographic area including modern Belarus, Lithuania, Poland and Ukraine. The species is excluded from the present list pending further study.
- Pyrenula dermatodes** (Borrer) Schaer. – This species was erroneously reported by Oksner (1956) and Makarevicz (1977d). The reports should be treated as *P. nitidella* (Flörke ex Schaer.) Müll. Arg. following Golubkov (1987).
- Ramalina obtusata** (Arnold) Bitter – Golubkov (1992) reported this species, but the specimens belong to *R. baltica*. The report of Yatsyna (2016c) also needs critical revision (see Yatsyna 2016b). *Ramalina obtusata* is excluded from the present checklist pending further study.
- Ramalina pulvinata** (Anzi) Jatta – This species was reported by Yatsyna and Merzhvinsky (2012) based on a reference to historical report by Kreyer (1913). *Ramalina pulvinata* is a synonym of *R. breviscula* (Nyl.) Nyl., which is mainly a Mediterranean saxicolous species (Nimis 2016). The description provided by Kreyer (1913) fits *R. pollinaria* and the report almost certainly corresponds to that species.
- Rhizocarpon eupetraeoides** (Nyl.) Blomb. & Forssell – This species was reported by Novruzov (1990) without specific information and the species was not been confirmed as occurring in Belarus in a recent revision of the genus (Matwiejuk & Golubkov 2012). It is excluded from the list here.
- Rhizocarpon eupetraeum** (Nyl.) Arnold – This species was reported by Oksner (1968) without any specific information. The species was not been confirmed for Belarus in a recent revision of the genus (Matwiejuk & Golubkov 2012). It is excluded from the list here.
- Rhizocarpon umbilicatum** (Ramond) Flagey – Oksner (1968) reported this species, but the identification for Belarus has been questioned, and therefore it seems premature to accept this species as occurring in the region.
- Ricasolia amplissima** (Scop.) De Not. – This species was reported as *Lobaria amplissima* (Scop.) Forssell by Yurchenko (2011) based on an encyclopedia entry (Shamjakin 1984). The entry does not include a Latin name and instead refers to *L. scrobiculata*.
- Rinodina archaea** (Ach.) Arnold – This species was erroneously reported by Yatsyna & Merzhvinsky (2012), who cited Kreyer (1913: 372). However, the species does not appear to have been cited in the latter publication.
- Rinodina turfacea** (Wahlenb.) Th. Fr. – The use of this name in Belarus derives from *R. turfacea* var. *nuda* Th. Fr. f. *minor* Kreyer that was described by Kreyer (1913). However, this taxon apparently does not correspond to *R. turfacea* (e.g. Kotlov 2008, Sheard 2004) as it has dark thallus, small ascospores (13–21 × 7.6–11.7 µm) and grows on soil.
- Rinodina vezdae** H. Mayrhofer – This species was reported by Kotlov (2008) without specific information on its provenance and ecology. No specimen from Belarus has been found in LE (Gagarina, pers. comm.) and the species is excluded from the present list pending further study.
- Schismatomma graphidioides** (Leight.) Zahlbr. – This species was reported as *Lithographa graphidioides* (Cromb.) Imshaug ex Coppins & Fryday based on an incorrect nomenclatural update of *S. pericleum* by Golubkov (2011).
- Sclerophora amabilis** (Tibell) Tibell – The report by Yatsyna (2015b) from a manor park in the Minsk region is likely erroneous (see Yatsyna 2016a).
- Sphaerophorus fragilis** (L.) Pers. – This taxon was reported Yurchenko (2011), who cited Meier (1901). However, the species has arctic-alpine to boreal-montane distribution (Nimis 2016) and use of *Lichen fragilis* L. by Meier almost certainly refers to a different species.
- Staurothele clopima** (Wahlenb.) Th. Fr. – It is likely that the report of this species by Yatsyna (2015d) from the Grodno fortress was erroneous as that species was not cited in the latter publication (Yatsyna 2016c). According to Nimis (2016), the species is mainly restricted to mountainous areas.
- Trapeliopsis glaucolepidea** (Nyl.) Gotth. Schneid. – This species was reported by Yatsyna (2014c) without specific information as to the provenance and ecology. It was also not included in the latest summary of new Belarusian reports (Yatsyna & Motiejūnaite 2015). As such, the report is considered questionable and excluded from the present list pending further study.

- Usnea cavernosa** Tuck. – This species was reported by Golubkov and Kobzar (2005), who cited Krawiec (1938). However, Krawiec reported the species from the vicinity of Białowieża village which is now in Poland.
- Vahliella leucophaea** (Vahl) P.M. Jørg. – This species was reported as *Fuscopannaria leucophaea* (Vahl) P.M. Jørg. by Yurchenko (2011) based on historical reports by Gilibert (1781) and Jundzill (1830). However, that name was not mentioned by Gilibert. Further, Jundzill cited no exact locality, and covered a large geographic area including modern Belarus, Lithuania, Poland and Ukraine. The species is excluded from the present list pending further study.
- Varicellaria velata** (Turner) Schmitt & Lumbsch – This species was reported by Bachmann and Bachmann (1920) as *Pertusaria velata* (Turner) Nyl. However, the occurrence of this oceanic species in Belarus is doubtful (see also, Makarevicz 1971a) and the report probably refers to another species.
- Verrucaria sylvana** Kreyer – This was described as a new species by Kreyer (1913). However, the description of *V. sylvana* is very short and it is not possible to establish its identity with certainty. Based on the description, the name could apply to several species. Furthermore, the reported variation in ascospore width is larger than is typical for a species of *Verrucaria* (Pykälä, pers. comm.). Therefore, the identity of *V. sylvana* requires further study and the name is considered as *nomen dubium* until type material is studied.
- Verrucaria viridula** (Schrader) Ach. – This species was reported as *V. papillosa* Ach. by Kopachevskaja (1977) based on an incorrect nomenclatural update of a historical report of *V. papillosa* Flörke (Bachmann & Bachmann 1920). However, the latter name corresponds to *V. floerkeana*.
- Xanthoparmelia pokorny** (Körb.) O. Blanco, A. Crespo, Elix, D. Hawksw. & Lumbsch – This species was erroneously reported for Belarus by Hawksworth et al. (2008). No specimen from Belarus has been found in H (Ahti, pers. comm.) and the species is excluded from the present checklist.
- Xanthoparmelia stenophylla** (Ach.) Ahti & D. Hawksw. – This species was reported by Golubkov (1992), Golubkov et al. (2007b) and Bely and Golubkov (2012), but the specimens were reidentified as *X. angustiphyllo* by TLC during a recent revision (Tsurykau et al. 2018). The report by Yatsyna (2009e) was not accompanied by chemical data and therefore should be reexamined before being included.

NOMENCLATURAL INDEX TO SYNONYMS AND HISTORICAL NAMES

- Acarospora discreta Ach. = Acarospora veronensis
Acarospora fuscata (Schrad.) Th. Fr. var. rufescens (Turner) Th. Fr. = Acarospora fuscata
Acarospora glebosa (Flot.) Körb. = Acarospora oligospora
Acarospora heppii Nägeli ex Körb. = Caeruleum heppii
Acrocordia alba (Schrad.) B. de Lesd. = Acrocordia gemmata
Acrocordia sphaeroides (Wallr.) Arnold = Acrocordia gemmata
Allarthonia patellulata (Nyl.) Zahlbr. = Arthonia patellulata
Alectoria cana (Ach.) Leight. = Bryoria capillaris
Alectoria chalybeiformis (L.) Röhl. = Bryoria fuscescens
Alectoria crispa Motyka = Bryoria fuscescens
Alectoria haynaldii Gyeln. sensu Gorbach = Bryoria capillaris
Alectoria implexa auct. = Bryoria implexa
Alectoria jubata (L.) Ach. – name can be applied to various pendent species of Bryoria (see Brodo & Hawksworth 1977, Esslinger 2016)
Alectoria mirabilis Motyka = Bryoria implexa
Alectoria motycii Bystrek nom. inval. = Bryoria implexa
Alectoria motykana Bystrek = Bryoria implexa
Alectoria nidulifera Norrl. = Bryoria furcellata
Alectoria setacea (Ach.) Motyka = Bryoria capillaris
Alectoria setacea (Ach.) Motyka var. tominii Bystrek = Bryoria capillaris
Alectoria thrausta Ach. = Ramalina thrausta
Anaptychia ciliaris (L.) Körb. var. vulgaris Körb. = Anaptychia ciliaris
Anaptychia ciliaris (L.) Körb. f. verrucosa (Ach.) Boistel = Anaptychia ciliaris
Anaptychia speciosa (Wulfen) A. Massal. = Heterodermia speciosa

Arthonia byssacea (Weigel) Almq. = *Inoderma byssaceum*
Arthonia cinnabarina (DC.) Wallr. = *Coniocarpon cinnabarinum*
Arthonia leucopellaea (Ach.) Almq. = *Felipes leucopellaeus*
Arthonia lurida Ach. nom. rej. = *Arthonia spadicea*
Arthonia populina A. Massal. = *Arthonia punctiformis*
Arthonia radiata (Pers.) Th. Fr. f. *swartziana* Ach. = *Arthonia radiata*
Arthonia radiata (Pers.) Th. Fr. f. *astroidea* Ach. = *Arthonia radiata*
Arthonia radiata (Pers.) Ach. var. *astroidea* Ach. = *Arthonia radiata*
Arthonia ruana A. Massal. = *Arthothelium ruanum*
Arthonia ruanum nom. illeg. = *Arthothelium ruanum*
Arthonia tumidula Ach. = *Arthonia cinnabarina*
Arthopyrenia alba (Schrad.) Zahlbr. = *Acrocordia gemmata*
+*Arthopyrenia analepta* (Ach.) A. Massal. var. *punctiformis* (Schrank.) Kreyer = *Naetrocymbe punctiformis*
#*Arthopyrenia atomaria* (Ach.) Müll. Arg. = *Naetrocymbe punctiformis*
#*Arthopyrenia punctiformis* (Ach.) Arnold = *Naetrocymbe punctiformis*
Arthopyrenia punctiformis (Ach.) Arnold var. *atomaria* Ach. = *Leptorhaphis atomaria*
Arthopyrenia spaeroides (Wallr.) Zahlbr. = *Acrocordia gemmata*
Arthrospora populorum A. Massal. nom. illeg. = *Arthrosporum populorum*
Arthrosporum accline (Flot.) Körb. = *Arthrosporum populorum*
Aspicilia calcarea (L.) Mudd. = *Circinaria calcarea*
Aspicilia contorta (Hoffm.) Kremp. = *Circinaria contorta*
Aspicilia gibbosa (Ach.) Körb. = *Circinaria gibbosa*
Aspicilia moenium (Vain.) G. Thor & Timdal. = *Acarospora moenium*
Aspicilia mutabilis (Ach.) Körb. = *Megaspora verrucosa*
Aspicilia sphaerothallina (J. Steiner) Szatala = *Circinaria sphaerothallina*

Bacidia abbrevians (Nyl.) Th. Fr. = *Bacidia igniarii*
Bacidia acerina (Pers.) Arnold = *Bacidia polychroa*
Bacidia albescens (Arnold) Zwakch. = *Bacidina phacodes*
Bacidia arnoldiana Körb. = *Bacidina arnoldiana*
Bacidia assulata (Körb.) Vězda = *Bacidina assulata*
Bacidia bacillifera (Nyl.) Elenk. = *Bacidia circumspecta*
Bacidia bacillifera (Nyl.) Elenk. var. *abbrevians* Nyl. = *Bacidia igniarii*
Bacidia beckhausii Körb. = *Biatora beckhausii*
Bacidia cinerea (Schaer.) Körb. = *Micarea cinerea*
Bacidia chlorococca (Graewe ex Stenh.) Lettau = *Scoliciosporum chlorococcum*
Bacidia corticola (Anzi) Dalla Torre & Sarnth. = *Scoliciosporum umbrinum*
Bacidia delicata (Leight.) Coppins = *Bacidina delicata*
Bacidia effusa (Sm.) Arnold = *Bacidina assulata*
Bacidia endoleuca (Nyl.) Kickx. = *Bacidia laurocerasi*
Bacidia fuscorubella (Hoffm.) Bausch = *Bacidia polychroa*
Bacidia fuscorubella (Hoffm.) Arnold var. *phaea* (Stizenb.) Th. Fr. = *Bacidia polychroa*
Bacidia globulosa (Flörke) Hafellner & V. Wirth = *Biatora globulosa*
Bacidia hegetschweileri (Hepp) Vain. = *Bacidia subincompta*
Bacidia hypnophila (Ach.) Zahlbr. = *Bilimbia sabuletorum*
Bacidia intermedia Arnold = *Bacidina assulata*
Bacidia inundata (Fr.) Körb. = *Bacidina inundata*
Bacidia luteola (Schrad.) Mudd. = *Bacidia rubella*
Bacidia minuscula Anzi = *Biatora beckhausii*
Bacidia muscorum (Sw.) Arnold f. *viridescens* (A. Massal.) Hepp = *Bacidia bagliettoana*
Bacidia naegelia (Hepp) Zahlbr. = *Lecania naegelia*
Bacidia nitschkeana (J. Lahm) Zahlbr. = *Micarea nitschkeana*
Bacidia phacodes Körb. = *Bacidina phacodes*
Bacidia populorum (A. Massal.) Trevis. = *Arthrosporum populorum*
Bacidia sabuletorum Flörke = *Bilimbia sabuletorum*

Bacidia sphaeroides (Dicks.) Zahlbr. = *Mycobilimbia pilularis*
Bacidia umbrina (Ach.) Branth & Rostrup. = *Scoliciosporum umbrinum*
Baeomyces roseus Pers. = *Dibaeis baeomyces*
Baeomyces byssoides (L.) Schaer. f. *sessilis* Nyl. = *Baeomyces rufus*
Biatora atrofusca Flot. ex Hepp = *Bryobilimbia hypnorum*
Biatora atroviridis (Arnold) Hellb. = *Biatora ocelliformis*
Biatora carnealbida (Müll. Arg.) Coppins = *Mycobilimbia carnealbida*
Biatora coarctata (Sm.) Arnold f. *elachista* (Ach.) Th. Fr. = *Trapelia involuta*
Biatora coarctata (Sm.) Arnold var. *elachista* (Ach.) Th. Fr. = *Trapelia involuta*
Biatora flexuosa Fr. = *Trapeliopsis flexuosa*
Biatora granulosa (Ehrh.) Flot. = *Trapeliopsis granulosa*
Biatora granulosa (Flörke) Flot. var. *escharoides* (Hoffm.) Arnold = *Trapeliopsis gelatinosa*
Biatora humosa (Ehrh. ex Hoffm.) Arnold = *Placynthiella uliginosa*
Biatora monticola (Schaer.) Hepp = *Clauzadea monticola*
Biatora obscurella (Sommerf.) Arnold = *Lecanora phaeostigma*
Biatora sylvana Körb. = *Biatora globulosa*
Biatora symmicta (Ach.) A. Massal. = *Palicella filamentosa*
Biatora turgidula (Fr.) Nyl. = *Lecidea turgidula*
Biatora uliginosa (Schrad.) Fr. = *Placynthiella uliginosa*
Biatora uliginosa (Schrad.) Fr. f. *fuliginea* (Ach.) Fr. = *Placynthiella uliginosa*
Biatora viridescens Fr. = *Trapeliopsis viridescens*
Biatorella moriformis (Ach.) Th. Fr. = *Strangospora moriformis*
Biatorella pruinosa (Sm.) Mudd. = *Sarcogyne regularis*
+*Biatorella resinae* Mudd. = *Sarea resinae*
Biatorina atropurpurea (Schaer.) A. Massal. = *Catinarina atropurpurea*
Biatorina bouteillei (Desm.) Arnold = *Fellhanera bouteillei*
Biatorina prasina (Fr.) Stein var. *laeta* Th. Fr. = misidentification
Bilimbia cinerea (Schaer.) Körb. = *Micarea cinerea*
Bilimbia coprodes Körb. = *Bacidia coprodes*
Bilimbia hypnophila (Ach.) Th. Fr. = *Bilimbia sabuletorum*
Bilimbia hypnophila (Ach.) Th. Fr. f. *ludens* Stizenb. = *Bilimbia sabuletorum*
Bilimbia naegeli (Hepp) Anzi = *Lecania naegeli*
Bilimbia nitschkeana J. Lahm = *Micarea nitschkeana*
Bilimbia sphaeroides (Dicks.) Th. Fr. = *Mycobilimbia carnealbida*
Bilimbia trachona (Ach.) Trevis. = *Bacidia trachona*
Blastenia obscurella J. Lahm = *Caloplaca obscurella*
Bryopogon chalybeiforme (L.) Elenk. = *Bryoria fuscescens*
Bryopogon implexum (Hoffm.) Elenk. = *Bryoria implexa*
Bryopogon implexum (Hoffm.) Elenk. f. *capillaris* Ach. = *Bryoria capillaris*
Bryopogon jubatum (L.) – name can be applied to various pendent species of *Bryoria* (see Brodo & Hawksworth 1977, Esslinger 2016)
Bryoria chalybeiformis (L.) Brodo & D. Hawksw. = *Bryoria fuscescens*
Bryoria crispa (Motyka) Bystrek = *Bryoria fuscescens*
Bryoria jubata (L.) Bystrek – name can be applied to various pendent species of *Bryoria*
Bryoria mirabilis (Motyka) Bystrek = *Bryoria implexa*
Bryoria motykana (Bystrek) Bystrek = *Bryoria implexa*
Bryoria osteola (Gyeln.) Brodo & D. Hawksw. = *Bryoria implexa*
Bryoria pseudofuscescens (Gyeln.) Brodo & D. Hawksw. = *Bryoria implexa*
Bryoria setacea (Ach.) Brodo & D. Hawksw. = *Bryoria capillaris*
Buellia alboatra (Hoffm.) Th. Fr. = *Diplotomma alboatrum*
Buellia epipolia (Ach.) Mong. = *Diplotomma alboatrum*
Buellia insignis (Nägeli ex Hepp) Th. Fr. = *Tetramelas insignis*
Buellia lauri-cassiae (Fée) Müll. Arg. = Belarusian reports probably refer to *Buellia geophila*
Buellia margaritacea (Sommerf.) Lyngby = *Diplotomma alboatrum*
Buellia myriocarpa (DC.) De Not. = *Amandinea punctata*
Buellia parasema De Not. = *Buellia disciformis*

Buellia parasema (Ach.) Th. Fr. var. *disciformis* Th. Fr. = *Buellia disciformis*
Buellia parasema (Ach.) Th. Fr. var. *microcarpa* Schaer. = *Buellia disciformis*
Buellia parasema (Ach.) Th. Fr. var. *triphragmia* (Nyl.) Th. Fr. = *Buellia geophila*
Buellia punctata (Hoffm.) A. Massal. = *Amandinea punctata*
Buellia punctiformis (Hoffm.) A. Massal. = *Amandinea punctata*
Buellia punctiformis (Hoffm.) A. Massal. f. *ochroleuca* Kreyer = *Amandinea punctata*
Buellia stigmatea Körb. = *Amandinea punctata*
Byssoloma rotuliforme (Müll. Arg.) R. Sant. = *Byssoloma subdiscordans*
Byssoloma tricholomum (Mont.) Zahlbr. = *Byssoloma subdiscordans*

#*Calicium floerkei* Zahlbr. = *Chaenothecopsis pusilla*
Calicium hyperellum (Ach.) Ach. = *Calicium viride*
#*Calicium italicum* (Sacc.) Gola = *Chaenothecopsis pusilla*
Calicium minutum Körb. = *Calicium abietinum*
#*Calicium pusillum* Flörke = *Chaenothecopsis pusilla*
+*Calicium parietinum* Ach. = *Mycocalicium subtile*
Calicium sphaerocephalum (L.) Ach. = *Calicium salicinum*
Calicium subquercinum Asahina = *Calicium lenticulare*
+*Calicium subtile* Pers. = *Mycocalicium subtile*
Calogaya decipiens (Arnold) Arup, Frödén & Søchting = *Calogaya pusilla*
Caloplaca aurantia (Pers.) Hellb. = *Variospora aurantia*
Caloplaca cerina (Ach.) Th. Fr. var. *ehrhartii* (Schaer.) Th. Fr. = *Caloplaca cerina*
Caloplaca cerinella (Nyl.) Flagey = *Athallia cerinella*
Caloplaca cerinelloides (Erichsen) Poelt = *Athallia cerinelloides*
Caloplaca citrina (Hoffm.) Th. Fr. = *Flavoplaca citrina*
Caloplaca decipiens (Arnold) Blomb. & Forssell = *Calogaya pusilla*
Caloplaca elegans (Link) Th. Fr. = *Rusavskia elegans*
Caloplaca ferruginea (Huds.) Th. Fr. = *Blastenia ferruginea*
Caloplaca flavocitrina (Nyl.) H. Olivier = *Flavoplaca flavocitrina*
Caloplaca flavorubescens (Huds.) J.R. Laundon = *Gyalolechia flavorubescens*
Caloplaca flavovirescens (Wulfen) Dalla Torre & Sarnth. = *Gyalolechia flavovirescens*
Caloplaca herbidella (Arnold) H. Magn. = *Blastenia herbidella*
Caloplaca holocarpa (Hoffm.) A.E. Wade sensu auct. Belarus = *Athallia pyracea* s. lat.
Caloplaca lobulata (Flörke) Hellb. = *Calogaya lobulata*
Caloplaca luteoalba (Turner) Th. Fr. = *Cerothallia luteoalba*, but most probably misidentification
Caloplaca phlogina (Ach.) Flagey = *Polycauliona phlogina*
Caloplaca pyracea (Ach.) Zwackh = *Athallia pyracea*
Candelariella cerinella (Flörke) Elenk. = *Candelariella aurella*
Candelariella vitellina (Ehrh.) Elenk. var. *genuina* Th. Fr. = *Candelariella vitellina*
Candelariella vitellina (Ehrh.) Elenk. var. *xanthostigma* (Pers.) Th. Fr. = *Candelariella xanthostigma*
Catapyrenium squamulosum (Ach.) Breuss = *Placidium squamulosum*
Catillaria atropurpurea (Schaer.) Th. Fr. = *Catinaria atropurpurea*
Catillaria bouteillei (Desm.) Zahlbr. = *Fellhanera bouteillei*
Catillaria denigrata (Fr.) Held. = *Micarea denigrata*
Catillaria globulosa (Flörke) Th. Fr. = *Biatora globulosa*
Catillaria graniformis (K.G. Hagen) Vain. = *Cliostomum corrugatum*
Catillaria griffithii (Sm.) Malme = *Cliostomum griffithii*
Catillaria synothea (Ach.) Th. Fr. = *Micarea denigrata*
Catillaria prasina (Fr.) Th. Fr. = *Micarea prasina*
Catocarpon badioatrum (Flörke) Körb. var. *vulgaris* Körb. = *Rhizocarpon badioatrum*
Cetraria aleurites (Ach.) Th. Fr. = *Imshaugia aleurites*
Cetraria caperata Vain. = *Cetraria pinastri*
Cetraria chlorophylla (Willd.) Vain. = *Nephromopsis chlorophylla*
Cetraria crispa (Ach.) Nyl. = *Cetraria ericetorum*
Cetraria ericetorum Opiz. f. *vagans* (Mereschk.) Rass. = *Cetraria ericetorum*
Cetraria glauca (L.) Ach. = *Platismatia glauca*

Cetraria glauca (L.) Ach. f. *coralloidea* Wallr. = *Platismatia glauca*
Cetraria glauca (L.) Ach. f. *ulophylla* Wallr. = *Platismatia glauca*
Cetraria islandica (L.) Ach. f. *crispa* Ach. = *Cetraria ericetorum*
Cetraria islandica (L.) Ach. f. *isidioidea* Rass. = *Cetraria islandica*
Cetraria islandica (L.) Ach. f. *maculata* (Vain.) Savicz = *Cetraria islandica*
Cetraria islandica (L.) Ach. f. *platyna* Ach. = *Cetraria islandica*
Cetraria islandica (L.) Ach. f. *rigida* (Retz.) Savicz = *Cetraria islandica*
Cetraria islandica (L.) Ach. f. *sorediata* Arnold = *Cetraria islandica*
Cetraria islandica (L.) Ach. f. *subtubulosa* Fr. = *Cetraria ericetorum*
Cetraria islandica (L.) Ach. f. *vagans* Savicz = *Cetraria islandica*
Cetraria scutata auct. Belarus = *Nephromopsis chlorophylla*
Cetraria sepincola Ach. f. *rosulata* Th. Fr. = *Cetraria sepincola*
Cetraria tenuifolia Vain. = *Cetraria ericetorum*
Cetraria tenuifolia Vain f. *soralifera* Anders = *Cetraria ericetorum*
Chaenotheca aeruginosa (Turner) A. L. Sm. = *Chaenotheca stemonea*
Chaenotheca carthusiae (Harm.) Lettau = *Chaenotheca chlorella*
Chaenotheca melanophaea (Ach.) Zwackh = *Chaenotheca ferruginea*
Chaenotheca trichialis Hellb. f. *candelaris* Dalla Torre & Saroth. = *Chrysothrix candelaris*
#Chaenothecopsis lignicola (Nádv.) A.F.W. Schmidt = *Chaenothecopsis pusiola*
Cladina alpestris (L.) Rabenh. = *Cladonia stellaris*
Cladina arbuscula (Wallr.) Hale & W.L. Culb. = *Cladonia arbuscula* ssp. *arbuscula*
Cladina mitis (Sandst.) Hale & W.L. Culb. = *Cladonia arbuscula* ssp. *mitis*
Cladina portentosa (Dufour) Follmann = *Cladonia portentosa*
Cladina rangiferina (L.) Harm. = *Cladonia rangiferina*
Cladina stellaris (Opiz) Brodo = *Cladonia stellaris*
Cladina tenuis (Flörke) Hale & W.L. Culb. = *Cladonia tenuis*
Cladonia alpestris (L.) Rabenh. = *Cladonia stellaris*
Cladonia amaurocraea (Flörke) Schaer. f. *amaurocraea* = *Cladonia amaurocraea*
Cladonia amaurocraea (Flörke) Schaer. f. *oxyceras* (Ach.) Vain. = *Cladonia amaurocraea*
Cladonia anomaea (Ach.) Ahti & P. James = *Cladonia ramulosa*
Cladonia arbuscula (Wallr.) Flot. f. *sphagnoides* (Flörke) H. Olivier = *Cladonia arbuscula*
Cladonia bacillaris (Ach.) Nyl. = *Cladonia macilenta* var. *bacillaris*
Cladonia bacillaris (Ach.) Nyl. var. *bacillaris* = *Cladonia macilenta* var. *bacillaris*
Cladonia bacillaris (Ach.) Nyl. var. *clavata* (Ach.) Vain. = *Cladonia macilenta* var. *bacillaris*
Cladonia botrytes (K.G. Hagen) Willd. f. *botrytes* = *Cladonia botrytes*
Cladonia carneola (Fr.) Fr. var. *scyphosa* Hepp = *Cladonia carneola*
Cladonia cariosa (Ach.) Spreng. f. *cariosa* = *Cladonia cariosa*
Cladonia cariosa (Ach.) Spreng. var. *corticata* Vain. = *Cladonia cariosa*
Cladonia cariosa (Ach.) Spreng. var. *cribrosa* (Wallr.) Vain. = *Cladonia cariosa*
Cladonia cenotea (Ach.) Schaer. f. *crossota* Ach. = *Cladonia cenotea*
Cladonia cenotea (Ach.) Schaer. var. *crossota* (Ach.) Nyl. = *Cladonia cenotea*
Cladonia cenotea (Ach.) Schaer. var. *exaltata* Nyl. = *Cladonia cenotea*
Cladonia cenotea (Ach.) Schaer. var. *viminalis* Flörke = *Cladonia cenotea*
Cladonia cenotea (Ach.) Schaer. f. *prolifera* Schaer. = *Cladonia cenotea*
Cladonia cervicornis (Ach.) Flot. ssp. *verticillata* (Hoffm.) Ahti = *Cladonia verticillata*
Cladonia ciliata Stirt. sensu auct. Belarus = *Cladonia tenuis*
Cladonia ciliata Stirt. var. *tenuis* (Flörke) Ahti = *Cladonia tenuis*
Cladonia ciliata Stirt. f. *flavicans* (Flörke) Ahti & De Priest = *Cladonia tenuis*
Cladonia coccifera (L.) Willd. var. *coccifera* = *Cladonia coccifera*
Cladonia coccifera (L.) Willd. var. *pleurota* (Flörke) Schaer. = *Cladonia pleurota*
Cladonia coccifera (L.) Willd. var. *stematina* (Ach.) Vain. f. *phyllocoma* Flörke = *Cladonia coccifera*
Cladonia coniocraea (Flörke) Spreng. f. *phyllostrata* (Flörke) Oksner = *Cladonia coniocraea*
Cladonia coniocraea (Flörke) Spreng. f. *pycnotheriza* (Nyl.) Vain. = *Cladonia coniocraea*
Cladonia cornuta (L.) Schaer. f. *cornuta* = *Cladonia cornuta*
Cladonia cornuta (L.) Schaer. f. *obtrusa* Küllh. = *Cladonia cornuta*
Cladonia cornuta (L.) Schaer. f. *phyllostoca* (Flörke) Arnold = *Cladonia cornuta*

Cladonia cornutoradiata (Coem.) Zopf = *Cladonia subulata*
Cladonia cornutoradiata (Coem.) Zopf f. *capreolata* (Flörke) Flot.
Cladonia cornutoradiata (Coem.) Zopf f. *radiata* (Schreb.) Coem. = *Cladonia subulata*
Cladonia cornutoradiata (Coem.) Zopf f. *subacuminata* Vain.
Cladonia cornutoradiata (Coem.) Zopf f. *subulata* (L.) Vain. = *Cladonia subulata*
Cladonia crispata (Ach.) Flot. var. *cetrariiformis* (Delise) Vain. = *Cladonia crispata*
Cladonia crispata (Ach.) Flot. var. *crispata* = *Cladonia crispata*
Cladonia crispata (Ach.) Flot. var. *dilacerata* (Schaer.) Malbr. = *Cladonia crispata*
Cladonia crispata (Ach.) Flot. var. *divulsa* (Delise) Arnold = *Cladonia crispata*
Cladonia crispata (Ach.) Flot. var. *elegans* (Delise) Vain. = *Cladonia crispata*
Cladonia crispata (Ach.) Flot. var. *gracilescens* (Rabenh.) Vain. = *Cladonia crispata*
Cladonia crispata (Ach.) Flot. var. *infundibulifera* (Schaer.) Vain. = *Cladonia crispata*
Cladonia deformis (L.) Hoffm. f. *crenulata* (Ach.) Nyl. = *Cladonia deformis*
Cladonia deformis (L.) Hoffm. f. *deformis* = *Cladonia deformis*
Cladonia deformis (L.) Hoffm. f. *gonecha* Ach. = *Cladonia sulphurina*
Cladonia degenerans (Flörke) Spreng. = *Cladonia phyllophora*
Cladonia degenerans (Flörke) Spreng. var. *cladomorpha* (Ach.) Vain. = *Cladonia phyllophora*
Cladonia degenerans (Flörke) Spreng. var. *dilacerata* Schaer. = *Cladonia phyllophora*
Cladonia degenerans (Flörke) Spreng. var. *phyllophora* (Ehrh.) Flörke = *Cladonia phyllophora*
Cladonia degenerans (Flörke) Spreng. f. *cladomorpha* (Ach.) Vain. = *Cladonia phyllophora*
Cladonia degenerans (Flörke) Spreng. f. *dilacerata* Schaer. = *Cladonia phyllophora*
Cladonia degenerans (Flörke) Spreng. f. *euphorea* (Ach.) Flörke = *Cladonia phyllophora*
Cladonia degenerans (Flörke) Spreng. f. *phyllophora* (Ehrh.) Flörke = *Cladonia phyllophora*
Cladonia delicata (Ehrh.) Flörke = *Cladonia parasitica*
Cladonia delicata (Ehrh.) Flörke f. *quercina* (Pers.) Vain. = *Cladonia parasitica*
Cladonia digitata (L.) Hoffm. f. *brachytes* (Ach.) Vain. = *Cladonia digitata*
Cladonia digitata (L.) Hoffm. f. *ceruchoides* Vain. = *Cladonia digitata*
Cladonia digitata (L.) Hoffm. f. *monstrosa* (Ach.) Vain. = *Cladonia digitata*
Cladonia fimbriata (L.) Fr. f. *exillis* (Hoffm.) Zahlbr. = *Cladonia fimbriata*
Cladonia fimbriata (L.) Fr. f. *fimbriata* = *Cladonia fimbriata*
Cladonia fimbriata (L.) Fr. f. *major* (K.G. Hagen) Vain. = *Cladonia fimbriata*
Cladonia fimbriata (L.) Fr. var. *apolepta* (Ach.) Vain. = *Cladonia coniocraea*
Cladonia fimbriata (L.) Fr. var. *apolepta* (Ach.) Vain. f. *coniocraea* Flörke = *Cladonia coniocraea*
Cladonia fimbriata (L.) Fr. var. *apolepta* (Ach.) Vain. f. *ochrochlora* (Flörke) Vain. = *Cladonia coniocraea*
Cladonia fimbriata (L.) Fr. var. *apolepta* (Ach.) Vain. f. *epiphylla* (Flot.) Kreyer = *Cladonia coniocraea*
Cladonia fimbriata (L.) Fr. var. *cornutoradiata* Coem. f. *olata* (Flörke) Flot. = *Cladonia subulata*
Cladonia fimbriata (L.) Fr. var. *cornutoradiata* Coem. f. *radiata* (Schreb.) Coem. = *Cladonia subulata*
Cladonia fimbriata (L.) Fr. var. *cornutoradiata* Coem. f. *subacuminata* Vain. = *Cladonia rei*
Cladonia fimbriata (L.) Fr. var. *cornutoradiata* Coem. f. *subulata* (L.) Vain. = *Cladonia subulata*
Cladonia fimbriata (L.) Fr. var. *ochrochlora* (Flörke) Vain. = *Cladonia coniocraea*
Cladonia fimbriata (L.) Fr. var. *prolifera* (Retz.) A. Massal. = *Cladonia chlorophaea* s. lat.
Cladonia fimbriata (L.) Fr. var. *simplex* (Weiss) Flot. = *Cladonia fimbriata*
Cladonia fimbriata (L.) Fr. var. *simplex* (Weiss) Flot. f. *epistelis* Kreyer = *Cladonia fimbriata*
Cladonia fimbriata (L.) Fr. var. *simplex* (Weiss) Flot. f. *major* (K.G. Hagen) Vain. = *Cladonia fimbriata*
Cladonia fimbriata (L.) Fr. var. *simplex* (Weiss) Flot. f. *minor* (K.G. Hagen) Vain. = *Cladonia fimbriata*
Cladonia flabelliformis (Flörke) Vain. f. *ochracea* Aigret = *Cladonia polydactyla*
Cladonia flabelliformis (Flörke) Vain. f. *tubaeformis* Mudd. = *Cladonia polydactyla*
Cladonia floerkeana (Fr.) Sommerf. f. *epistelis* Oksner = *Cladonia floerkeana*
Cladonia floerkeana (Fr.) Sommerf. var. *carcata* (Ach.) Nyl. = *Cladonia floerkeana*
Cladonia floerkeana (Fr.) Sommerf. var. *chloroides* (Flörke) Vain. = *Cladonia floerkeana*
Cladonia floerkeana (Fr.) Sommerf. var. *floerkeana* = *Cladonia floerkeana*
Cladonia floerkeana (Fr.) Sommerf. var. *intermedia* Hepp = *Cladonia floerkeana*
Cladonia furcata (Huds.) Schrad. var. *furcata* (Hoffm.) Flörke = *Cladonia furcata* ssp. *furcata*
Cladonia furcata (Huds.) Schrad. var. *palamaea* (Ach.) Nyl. = *Cladonia furcata* ssp. *subrangiformis*
Cladonia furcata (Huds.) Schrad. var. *pinnata* (Flörke) Vain. = *Cladonia furcata* ssp. *furcata*
Cladonia furcata (Huds.) Schrad. var. *pinnata* (Flörke) Vain. f. *foliosa* Del. = *Cladonia furcata* ssp. *furcata*

Cladonia furcata (Huds.) Schrad. var. *racemosa* (Hoffm.) Flörke = *Cladonia furcata* ssp. *furcata*
Cladonia furcata (Huds.) Schrad. var. *racemosa* (Hoffm.) Flörke f. *corymbosa* (Ach.) Nyl. = *Cladonia furcata* ssp. *furcata*
Cladonia furcata (Huds.) Schrad. var. *racemosa* (Hoffm.) Flörke f. *furcatosubulata* Hoffm. = *Cladonia furcata* ssp. *furcata*
Cladonia gonecha (Ach.) Asahina = *Cladonia sulphurina*
Cladonia gracilis (L.) Willd. var. *chordalis* (Flörke) Schaer. = *Cladonia gracilis*
Cladonia gracilis (L.) Willd. var. *chordalis* (Flörke) Schaer. f. *leucochlora* Flörke = *Cladonia gracilis*
Cladonia gracilis (L.) Willd. var. *dilacerata* Flörke = *Cladonia gracilis*
Cladonia gracilis (L.) Willd. var. *dilatata* (Hoffm.) Vain. = *Cladonia gracilis*
Cladonia gracilis (L.) Willd. var. *elongata* (Jacq.) Flörke = *Cladonia gracilis*
Cladonia gracilis (L.) Willd. var. *elongata* (Jacq.) Flörke f. *hugueninii* (Del.) Vain. = *Cladonia gracilis*
Cladonia gracilis (L.) Willd. var. *elongata* (Jacq.) Flörke f. *subdilacerata* Vain. = *Cladonia gracilis*
Cladonia gracilis (L.) Willd. var. *elongata* (Jacq.) Flörke f. *phyllophora* Rabenh. = *Cladonia gracilis*
Cladonia gracilis (L.) Willd. var. *gracilis* = *Cladonia gracilis*
Cladonia gracilis (L.) Willd. f. *anthocephala* Flörke = *Cladonia gracilis*
Cladonia gracilis (L.) Willd. f. *mesothera* Wallr. = *Cladonia gracilis*
Cladonia impexa Harm. = *Cladonia portentosa*
Cladonia impexa Harm. f. *condensata* (Flörke) Coem. = *Cladonia portentosa*
Cladonia impexa Harm. f. *impexa* = *Cladonia portentosa*
Cladonia impexa Harm. f. *laxiuscula* (Del.) Vain. = *Cladonia implexa*
Cladonia impexa Harm. f. *portentosa* (Duf.) Harm. = *Cladonia portentosa*
Cladonia incrassata Flörke f. *epiphylla* Fr. = *Cladonia incrassata*
Cladonia incrassata Flörke f. *incrassata* = *Cladonia incrassata*
Cladonia laxiuscula (Del.) Sandst. = *Cladonia portentosa*
Cladonia macilenta Hoffm. ssp. *floerkeana* (Fr.) V. Wirth = *Cladonia floerkeana*
Cladonia macilenta Hoffm. var. *macilenta* = *Cladonia macilenta*
Cladonia macilenta Hoffm. var. *ostreata* Nyl. = *Cladonia macilenta*
Cladonia macilenta Hoffm. var. *styracella* (Ach.) Vain. = *Cladonia macilenta*
Cladonia macrophylla (Schaer.) Stenh. f. *mougeotii* (Delise ex Vain.) J.W. Thomson = *Cladonia macrophylla*
Cladonia major (K.G. Hagen) Sandst. = *Cladonia fimbriata*
Cladonia mitis Sandst. = *Cladonia arbuscula* ssp. *mitis*
Cladonia nemoxyna (Ach.) Nyl. = *Cladonia rei*
Cladonia ochrochlora Flörke = *Cladonia coniocraea*
Cladonia papillaria (Ehrh.) Hoffm. = *Pycnothelia papillaria*
Cladonia pityrea (Flörke) Fr. = *Cladonia ramulosa*
Cladonia pityrea (Flörke) Fr. f. *crassiuscula* (Coem.) Vain. = *Cladonia ramulosa*
Cladonia pleurota (Flörke) Schaer. f. *phyllocoma* Flörke = *Cladonia pleurota*
Cladonia pyxidata (L.) Hoffm. ssp. *chlorophaea* (Sommerf.) V. Wirth = *Cladonia chlorophaea*
Cladonia pyxidata (L.) Hoffm. ssp. *pocillum* (Ach.) Å.E. Dahl = *Cladonia pocillum*
Cladonia pyxidata (L.) Fr. var. *chlorophaea* Flörke = *Cladonia chlorophaea*
Cladonia pyxidata (L.) Fr. var. *neglecta* (Flörke) A. Massal. = an uncertain species from *Cladonia chlorophaea* agg.
Cladonia pyxidata (L.) Th. Fr. var. *neglecta* (Flörke) A. Massal. f. *lophyra* Ach. = an uncertain species from *Cladonia chlorophaea* agg.
Cladonia pyxidata (L.) Hoffm. var. *pyxidata* = *Cladonia pyxidata*
Cladonia rangiferina (L.) F.H. Wigg. f. *tecticola* Savicz = *Cladonia rangiferina*
Cladonia rei Schaer. f. *phyllocephala* Arnold = *Cladonia rei*
Cladonia squamosa (Scop.) Hoffm. var. *denticollis* (Hoffm.) Flörke = *Cladonia squamosa*
Cladonia squamosa (Scop.) Hoffm. var. *denticollis* (Hoffm.) Flörke f. *squamosissima* (Flörke) Vain. = *Cladonia squamosa*
Cladonia squamosa (Scop.) Hoffm. var. *multibrachiata* Flörke f. *turfacea* Rehm = *Cladonia squamosa*
Cladonia squamosa (Scop.) Hoffm. var. *multibrachiata* Flörke f. *pityrea* (Arnold) Vain. = *Cladonia squamosa*
Cladonia squamosa (Scop.) Hoffm. var. *multibrachiata* Flörke f. *phyllocoma* Vain. = *Cladonia squamosa*

Cladonia squamosa (Scop.) Hoffm. var. *multibrachiata* Flörke f. *pseudocrispata* Sandst. = *Cladonia squamosa*
Cladonia squamosa (Scop.) Hoffm. var. *muricella* (Del.) Vain. = *Cladonia squamosa*
Cladonia squamosa (Scop.) Hoffm. var. *phyllocoma* Rabenh. = *Cladonia squamosa*
Cladonia squamosa (Scop.) Hoffm. var. *squamosa* = *Cladonia squamosa*
Cladonia subrangiformis Sandst. = *Cladonia furcata* ssp. *subrangiformis*
Cladonia subulata (L.) F.H. Wigg. f. *furcellata* (Hoffm.) J.C. Wei = *Cladonia subulata*
Cladonia sylvatica (L.) Hoffm. = *Cladonia arbuscula* ssp. *arbuscula*
Cladonia sylvatica (L.) Hoffm. var. *sylvestris* Oeder = *Cladonia arbuscula* ssp. *arbuscula*
Cladonia sylvatica (L.) Hoffm. var. *sylvestris* Oeder f. *pumila* (Ach.) Rabenh. = *Cladonia arbuscula* ssp. *arbuscula*
Cladonia sylvatica (L.) Hoffm. var. *sylvestris* Oeder f. *caespitosa* Rabenh. = *Cladonia arbuscula* ssp. *arbuscula*
Cladonia sylvatica (L.) Hoffm. var. *sylvestris* Oeder f. *sphagnoides* Flörke = *Cladonia arbuscula* ssp. *arbuscula*
Cladonia sylvatica (L.) Hoffm. f. *arbuscula* (Wahlbr.) Körb. = *Cladonia arbuscula* ssp. *arbuscula*
Cladonia sylvatica (L.) Hoffm. f. *condensata* (Flörke) Coem. = *Cladonia portentosa*
Cladonia sylvatica (L.) Hoffm. f. *myriocarpa* Coem. = *Cladonia arbuscula* ssp. *arbuscula*
Cladonia sylvatica (L.) Hoffm. f. *tectorum* Savicz = *Cladonia arbuscula* ssp. *arbuscula*
Cladonia sylvatica (L.) Hoffm. f. *tenuis* (Flörke) Coem. = *Cladonia tenuis*
Cladonia verticillata Hoffm. var. *cervicornis* (Ach.) Flörke = *Cladonia cervicornis*
Cladonia verticillata Hoffm. var. *evoluta* (Th. Fr.) Stein = *Cladonia verticillata*
Cladonia verticillata Hoffm. var. *evoluta* (Th. Fr.) Stein f. *phyllocephala* Flot. = *Cladonia verticillata*
Cladonia verticillata Hoffm. var. *evoluta* (Th. Fr.) Stein f. *apoticta* Ach. = *Cladonia verticillata*
Cladonia verticillata (Hoffm.) Schaer. var. *verticillata* = *Cladonia verticillata*
Coelocaulon aculeatum (Schreb.) Link = *Cetraria aculeata*
Coelocaulon aculeatum (Schreb.) Link f. *vagans* Golubkov nom. nud. = *Cetraria aculeata*
Coelocaulon muricatum (Ach.) J.R. Laundon = *Cetraria muricata*
Collema auriculatum Hoffm. = *Lathagrium auriforme*
Collema crispum (Huds.) Weber ex F.H. Wigg. = *Blennothallia crispa*
Collema cristatum (L.) Weber ex F.H. Wigg. = *Lathagrium cristatum*
Collema limosum (Ach.) Ach. = *Enchylium limosum*
Collema pulposum (Bernr.) Ach. = *Enchylium tenax*
Collema pulposum (Bernr.) Ach. f. *nudum* Schaer. = *Enchylium tenax*
Collema tenax (Sw.) Ach. = *Enchylium tenax*
Collema tenax (Sw.) Körb. var. *coronatum* Körb. = *Enchylium tenax*
Coniocybe furfuracea (L.) Fr. = *Chaenotheca furfuracea*
Coniocybe gracilentata Ach. = *Chaenotheca gracilentata*
Coniocybe sulphurea (Retz.) Nyl. = *Chaenotheca brachypoda*
Cornicularia aculeata (Schreb.) Ach. = *Cetraria aculeata*
Cornicularia aculeata (Schreb.) Ach. var. *alpina* Schaer. = *Cetraria aculeata*
Cornicularia aculeata (Schreb.) Ach. var. *acanthella* (Ach.) H. Magn. = *Cetraria aculeata*
Cornicularia tenuissima (L.) Sav. = *Cetraria aculeata*
Cybebe gracilentata (Ach.) Tibell = *Chaenotheca gracilentata*
Cyphelium chrysocephalum Ach. f. *filiare* Ach. = *Chaenotheca chrysocephala*
Cyphelium melanophaeum (Ach.) A. Massal. = *Chaenotheca ferruginea*
Cyphelium stemoneum (Ach.) De Not. f. *viride* Fr. = *Chaenotheca stemonea*
Cyphelium trichiale (Ach.) A. Massal. = *Chaenotheca trichialis*
Cyphelium trichiale (Ach.) A. Massal. var. *cinereum* Pers. = *Chaenotheca trichialis*
Cyphelium viridescens (Lilj.) Vain. = *Cyphelium tigillare*

Dermatocarpon cinereum (Pers.) Th. Fr. = *Catapyrenium cinereum*
Dimerella diluta (Pers.) Trevis. = *Coenogonium pineti*
Dimerella pineti (Schrad. ex Ach.) Vězda = *Coenogonium pineti*
Diplotomma alboatrum (Hoffm.) Körb. f. *ambigua* (Ach.) Th. Fr. = *Diplotomma alboatrum*

Endopyrenium cinereum (Pers.) Oksner = Catapyrenium cinereum
Endopyrenium desertorum (Tomin) Oksner nom. inval. = Placidium squamulosum
Endopyrenium desertorum (Tomin) Dzhur. = Placidium squamulosum
Endopyrenium hepaticum (Ach.) Körb. = Catapyrenium cinereum
Evernia furfuracea (L.) W. Mann. = Pseudevernia furfuracea
Evernia furfuracea (L.) W. Mann. f. nuda (Ach.) Nyl. = Pseudevernia furfuracea
Evernia furfuracea (L.) W. Mann. f. scobicina (Ach.) Nyl. = Pseudevernia furfuracea
Evernia furfuracea (L.) W. Mann. f. ceratea (Ach.) Opiz = Pseudevernia furfuracea
Evernia prunastri Ach. var. prunastri = Evernia prunastri
Evernia prunastri Ach. var. soreidiifera Ach. = Evernia prunastri
Evernia prunastri (L.) Ach. f. epiphylla Savicz = Evernia prunastri
Evernia prunastri (L.) Ach. f. lignicola Tomin = Evernia prunastri
Evernia prunastri (L.) Ach. f. retusa Ach. = Evernia prunastri
Evernia thamnodes (Flot.) Arnold = Evernia mesomorpha
Evernia thamnodes (Flot.) Arnold f. terricola Kreyer = Evernia mesomorpha

Foraminella ambigua (Wulfen) Fricke-Mayer = Parmeliopsis ambigua
Foraminella hyperopta (Ach.) S.L.F. Mey. = Parmeliopsis hyperopta

Gallowayella coppinsii (S.Y. Kondr. & Kärnefelt) S.Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.-S. Hur & A. Thell = Xanthomendoza coppinsii
Gallowayella fulva (Hoffm.) S.Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.-S. Hur & A. Thell = Xanthomendoza fulva

Gasparrinia decipiens (Arnold) Syd. = Calogaya pusilla
Graphis scripta (L.) Ach. f. recta Humb. = Graphis scripta
Graphis scripta (L.) Ach. f. serpentina Ach. = Graphis scripta
Graphis scripta (L.) Ach. var. limitata (Ach.) Schaer. = Graphis scripta
Graphis scripta (L.) Ach. var. pulverulenta (Pers.) Ach. = Graphis scripta
Graphis scripta (L.) Ach. var. recta (Humb.) Körb. f. macrocarpa Ach. = Graphis scripta
Graphis scripta (L.) Ach. var. typographica (Willd.) Zahlbr. = Graphis scripta

Haematomma elatinum (Ach.) A. Massal. = Loxospora elatina
Haematomma leiphaemum (Ach.) Sandst. = Haematomma ochroleucum
Hafellia disciformis (Fr.) Marbach & H. Mayrhofer = Buellia disciformis
Huilia crustulata (Ach.) Hertel = Porpidia crustulata
Huilia soredizodes (Lamy) Hertel = Porpidia soredizodes
Hypocnomyce anthracophila (Nyl.) P. James & Gotth. Schneid. = Carbonicola anthracophila
Hypocnomyce friesii (Ach.) P. James & Gotth. Schneid. = Xylopsora friesii
Hypogymnia bitteriana (Zahlbr.) Räsänen = Hypogymnia farinacea
Hypogymnia physodes (L.) Nyl. f. physodes Ach. = Hypogymnia physodes
Hypogymnia physodes (L.) Nyl. f. cassidiformis (Vereit.) Hakul. = Hypogymnia physodes
Hypogymnia physodes (L.) Nyl. f. epiphylla (Savicz) Rass. = Hypogymnia physodes
Hypogymnia physodes (L.) Nyl. f. platyphylla (Ach.) Rass. = Hypogymnia physodes
Hypogymnia physodes (L.) Nyl. f. subcrustacea (Flot.) Rass. = Hypogymnia physodes
Hypogymnia physodes (L.) Nyl. f. vittatoides (Mereschk.) Räsänen = Hypogymnia physodes
Hypogymnia tubulosa (Schaer.) Hav. f. farinosa (Hillmann) Rass. = Hypogymnia tubulosa
Hypogymnia vittata (Ach.) Gas. f. vittata = Hypogymnia vittata

Icmadophila aeruginosa (Scop.) Trevis. = Icmadophila ericetorum

Lecanactis deminuens (Nyl.) Elenk. = Cresponea chloroconia
Lecania dimera (Nyl.) Th. Fr. = Lecania dubitans
Lecania hyalina (Fr.) R. Sant. = Biatora globulosa
Lecania prasinoides Elenk. var. suaveolens Elenk. = Lecania prasinoides
Lecania syringea (Ach.) Th. Fr. = Lecania fuscella
Lecania syringea (Ach.) Th. Fr. var. pulla Kreyer = Lecania fuscella

Lecania syringea (Ach.) Th. Fr. f. *nuda* Kreyer = *Lecania fuscella*
Lecanora albella (Pers.) Ach. f. *chondrotypa* (Ach.) Th. Fr. = *Lecanora albella*
Lecanora allophana Nyl. f. *argentata* Ach. = *Lecanora argentata*
Lecanora allophana Nyl. f. *glabrata* (Ach.) Savicz = *Lecanora glabrata*
Lecanora angulosa (Schreb.) Ach. = *Lecanora carpinea*
Lecanora atra (Huds.) Ach. = *Tephromela atra*
Lecanora calcarea (L.) Körb. var. *contorta* (Hoffm.) Körb. = *Circinaria contorta*
Lecanora carpinea (L.) Vain. f. *typica* Kreyer = *Lecanora carpinea*
Lecanora carpinea (L.) Vain. f. *caesionigra* Kreyer = *Lecanora carpinea*
Lecanora carpinea (L.) Vain. var. *inquinata* Kreyer = *Lecanora carpinea*
Lecanora carpinea (L.) Vain. f. *carneo-fuscescens* Kreyer = *Lecanora carpinea*
Lecanora chlarona (Ach.) Nyl. = *Lecanora pulicaris*
Lecanora chlarona (Ach.) Nyl. var. *pinastri* Ach. = *Lecanora pulicaris*
Lecanora chlarotera Nyl. f. *rugosella* (Zahlbr.) Poelt = *Lecanora chlarotera*
Lecanora chloropolia (Erichsen) Almb. = *Lecanora impudens*
Lecanora cinerea (L.) A. Massal. = *Aspicilia cinerea*
Lecanora coilocarpa (Ach.) Nyl. = *Lecanora pulicaris*
Lecanora coilocarpa (Ach.) Nyl. var. *pinastri* (Ach.) Elenk. = *Lecanora pulicaris*
Lecanora coilocarpa (Ach.) Nyl. f. *albocrustacea* Kreyer = *Lecanora pulicaris*
Lecanora conizaea (Ach.) Nyl. = *Lecanora expallens*
Lecanora crassula H. Magn. = *Lecanora chlarotera*
Lecanora crenulata (Dicks.) Hook. = *Myriolecis crenulata*
Lecanora dispersa (Pers.) Röhl. = *Myriolecis dispersa*
Lecanora distans (Pers.) Nyl. = *Lecanora populicola*
Lecanora filamentosa (Stirt.) Elix & Palice = *Palicella filamentosa*
Lecanora glaucella (Flörke) Nyl. = *Lecanora albellula*
Lecanora hagenii (Ach.) Ach. = *Myriolecis hagenii*
Lecanora hagenii Ach. var. *umbrina* (Ehrh.) A. Massal. = *Lecanora umbrina*
Lecanora mutabilis Nyl. = *Megaspora verrucosa*
Lecanora muralis (Schreb.) Rabenh. = *Protoparmeliopsis muralis*
Lecanora pallescens (L.) Röhl. = *Ochrolechia pallescens*
Lecanora pallida (Schreb.) Rabenh. = *Lecanora albella*
Lecanora pinastri (Schaer.) H. Magn. = *Lecanora pulicaris*
Lecanora piniperda Körb. = *Lecanora albellula*
Lecanora polytropa (Ehrh.) Th. Fr. var. *illusoria* Ach. = *Lecanora polytropa*
Lecanora polytropa (Ehrh.) Th. Fr. f. *illusoria* Ach. = *Lecanora polytropa*
Lecanora rugosella Zahlbr. = *Lecanora chlarotera*
Lecanora sambuci (Pers.) Nyl. = *Myriolecis sambuci*
Lecanora subfusca auct. non (L.) Ach. = *Lecanora argentata*
Lecanora subfusca (L.) Ach. nom. rej. = *Lecanora allophana* f. *allophana*
Lecanora subfusca (L.) Ach. var. *argentata* Ach. = *Lecanora argentata*
Lecanora subfusca (L.) Ach. var. *chlarona* Nyl. = *Lecanora pulicaris*
Lecanora subfusca (L.) Ach. var. *transcendens* Ach. = *Lecanora allophana* f. *allophana*
Lecanora subfuscata H. Magn. = *Lecanora argentata*
Lecanora subrugosa Nyl. = *Lecanora argentata*
Lecanora symmicta (Ach.) Ach. = *Palicella filamentosa*
Lecanora symmicta Ach. var. *sepincola* Ach. = *Palicella filamentosa*
Lecanora symmictera Nyl. = *Palicella filamentosa*
Lecanora umbrina (Ehrh.) Röhl. = *Lecanora umbrina*
Lecanora umbrina (Ehrh.) A. Massal. = *Lecanora umbrina*
Lecanora umbrina (Ehrh.) A. Massal. f. *caesio-pruinosa* Elenk. = *Lecanora umbrina*
Lecanora umbrina (Ehrh.) A. Massal. var. *lithophila* (Wallr.) Körb. = *Lecanora umbrina*
Lecidea aeruginosa Borrer = *Trapeliopsis flexuosa*
Lecidea areolata (Kreyer) Zahlbr. = *Biatora areolata*
Lecidea atroviridis (Ach.) Th. Fr. = *Biatora ocelliformis*
Lecidea botryosa (Fr.) Nyl. = *Hertelidea botryosa*

Lecidea caesioatra Schaer. = *Frutidella caesioatra*
Lecidea cinereoatra Ach. = *Porpidia cinereoatra*
Lecidea coarctata f. *cotaria* (Ach.) = *Trapelia coarctata*
Lecidea coarctata f. *elachista* (Ach.) Th. Fr. = *Trapelia involuta*
Lecidea coarctata f. *ornata* (Sommerf.) Th. Fr. = *Trapelia glebulosa*
Lecidea contigua (Ach.) Fr. = *Porpidia macrocarpa*
Lecidea crustulata (Ach.) Spreng. = *Porpidia crustulata*
Lecidea crustulata (Ach.) Körb. var. *cinereoatra* Ach. = *Porpidia cinereoatra*
Lecidea crustulata Ach. f. *subconcentrica* Stein = *Porpidia crustulata*
Lecidea elabens Fr. = *Ramboldia elabens*
Lecidea elaeochroma (Ach.) Choisy = *Lecidella elaeochroma*
Lecidea erratica Körb. = *Leimonis erratica*
Lecidea euphorea (Flörke) Nyl. = *Lecidella euphorea*
Lecidea flexuosa (Fr.) Nyl. = *Trapeliopsis flexuosa*
Lecidea fuscocinerea Nyl. f. *subgyrosa* Kreyer = *Schaereria fuscocinerea*
Lecidea fuscubens Nyl. = *Clauzadea monticola*
Lecidea glomerulosa (DC.) Steud. = *Lecidella euphorea*
Lecidea glomerulosa (DC.) Nyl. var. *achrista* Sommerf. = *Lecidella euphorea*
Lecidea glomerulosa (DC.) Nyl. var. *euphorea* Flörke = *Lecidella euphorea*
Lecidea goniophila Flörke = *Lecidella anomaloides*
Lecidea granulosa (Hoffm.) Ach. = *Trapeliopsis granulosa*
Lecidea humosa (Hoffm.) Leight. = *Placynthiella uliginosa*
Lecidea incongrua Nyl. f. *spathea* Vain. = *Lecidella stigmata*
Lecidea latypea Ach. = *Lecidella carpathica*
Lecidea latypiza Nyl. = *Lecidella carpathica*
Lecidea lynceola Th. Fr. = *Micarea lynceola*
Lecidea macrocarpa (DC.) Steud. = *Porpidia macrocarpa*
Lecidea meiospora Nyl. – A name of uncertain application
Lecidea monticola (Ach.) Schaer. = *Clauzadea monticola*
Lecidea musiva Körb. = *Porpidia cinereoatra*
Lecidea obscurella (Sommerf.) Arnold = *Lecanora phaeostigma*
Lecidea oligotropha J.R. Laundon = *Placynthiella oligotropha*
Lecidea olivacea (Hoffm.) A. Massal. = *Lecidella elaeochroma*
Lecidea ostreata Hoffm. = *Hypocenomyce scalaris*
Lecidea parasema (Ach.) Ach. – infrasubspecific name of unknown status
Lecidea platycarpa Ach. = *Porpidia macrocarpa*
Lecidea pungens (Körb.) Nyl. = *Lecidella anomaloides*
Lecidea quernea (Dicks.) Ach. = *Pyrrhospora quernea*
Lecidea sanguineoatra (Wulfen) Lönnrot. = *Bryobilimbia sanguineoatra*
Lecidea scalaris Ach. = *Hypocenomyce scalaris*
Lecidea steriza (Ach.) Vain. = *Porpidia macrocarpa*
Lecidea stigmata Ach. = *Lecidella stigmata*
Lecidea sylvana (Körb.) Th. Fr. = *Biatora globulosa*
Lecidea sylvicola Flot. = *Brianaria sylvicola*
Lecidea symmicta Ach. = *Palicella filamentosa*
Lecidea tuberculata Sommerf. = *Brianaria tuberculata*
Lecidea uliginosa (Schrad.) Ach. = *Placynthiella uliginosa*
Lecidea vernalis (L.) Fr. = *Biatora vernalis*
Lecidea viridescens (Schrad.) Ach. = *Trapeliopsis viridescens*
Lepraria aeruginosa Sm. – the name can be applied to various sterile crustose soorediate species
Lepraria candelaria (L.) Fr. = *Chrysothrix candelaria*
Lepraria chlorina Ach. = *Chrysothrix chlorina*
Lepraria lobificans Nyl. sensu auct. Belarus = *Lepraria finkii*
Leptogium crenatellum Tuck. = *Leptogium rivulare*
Leptogium gelatinosum (With.) J.R. Laundon = *Scytinium gelatinosum*
Leptogium lacerum (Sw.) Gray var. *pulvinatum* Ach. = *Scytinium lichenoides*

Leptogium lichenoides (L.) Zahlbr. = Scytinium lichenoides
 Leptogium sinuatum (Huds.) A.Massal. = Scytinium gelatinosum
 Leptogium subtile (Schrad.) Torss. = Scytinium subtile
 Leptogium tenuissimum (Dicks.) Körb. = Scytinium tenuissimum
 Leptogium minutissimum (Flörke) Schaer. = Scytinium subtile
 #Leptorhaphis epidermidis (Ach.) Stein f. fusispora Flot. = Leptorhaphis epidermidis
 Leptorhaphis tremulae Körb. = Leptorhaphis atomaria
 Letharia divaricata (L.) Ach. = Evernia divaricata
 Lichen aphthosus L. = Peltigera aphthosa
 Lichen barbatus L. = Usnea barbata
 Lichen calicaris L. = Ramalina calicaris
 Lichen candelarius L. = Polycauliona candelaria
 Lichen caninus L. = Peltigera canina
 Lichen caperatus L. = Flavoparmelia caperata
 Lichen chalybeiformis L. = Bryoria fuscescens
 Lichen ciliaris L. = Anaptychia ciliaris
 Lichen cocciferus L. = Cladonia coccifera
 Lichen cornutus L. = Cladonia cornuta
 Lichen crispus L. = Blennothallia crispa
 Lichen crustaceus Gilib. = Stereocaulon paschale
 Lichen ericetorum L. = Icmadophila ericetorum
 Lichen eryngiifolius [eryngii folio] Gilib. = Cetraria islandica
 Lichen farinaceus L. = Ramalina farinacea
 Lichen fimbriatus L. = Cladonia fimbriata
 Lichen floridus L. = Usnea florida
 Lichen fragilis L. = misidentification
 Lichen fraxineus L. = Ramalina fraxinea
 Lichen furfuraceus L. = Pseudevernia furfuracea
 Lichen geographicus L. = Rhizocarpon geographicum
 Lichen gracilis L. = Cladonia gracilis
 Lichen hirtus L. = Usnea hirta
 Lichen incanus L. = Lepraria incana, but in fact the name can be applied to various sterile crustose
 sorediate species
 Lichen incarnatus Gilib. = Dibaeis baeomyces
 Lichen jubatus L. – name can be applied to various pendent species of Bryoria (see Brodo & Hawksworth
 1977, Esslinger 2016)
 Lichen lacteus L. = Varicellaria lactea
 Lichen luteus Gilib. = Polycauliona candelaria
 Lichen olivaceus L. = Melanohalea olivacea
 Lichen parietinus L. = Xanthoria parietina
 Lichen paschalis L. = Stereocaulon paschale
 Lichen perlatus L. = Parmotrema perlatum
 Lichen physodes L. = Hypogymnia physodes
 Lichen prunastris L. = Evernia prunastris
 Lichen pulmonarius L. = Lobaria pulmonaria
 Lichen pyxidatus L. = Cladonia pyxidata, but name can be applied to various cup-shaped species
 Lichen rangiferinus L. [unranked] sylvaticus L. = Cladonia arbuscula ssp. arbuscula
 Lichen rangiferinus L. = Cladonia rangiferina
 Lichen reticulatus Gilib. = Lobaria pulmonaria
 Lichen rostratus Gilib. = Ramalina calicaris
 Lichen rugosus Gilib. = Xanthoria parietina
 Lichen sanguinarius L. = Megalospora sanguinaria
 Lichen saxatilis L. = Parmelia saxatilis
 Lichen scriptus L. = Graphis scripta
 Lichen stellaris L. = Physcia stellaris
 Lichen subfuscus L. = Lecanora allophana f. allophana

Lichen subulatus L. = Cladonia subulata
 Lichen tomentosus Gilib. = Evernia prunastri
 Lichen uncialis L. = Cladonia uncialis ssp. uncialis
 Lichen venosus Gilib. = Peltigera canina
 Lithoidea nigrescens (Pers.) A. Massal. f. fuscoatra (Wallr.) Stein = Verrucaria nigrescens
 Lobaria pulmonaria (L.) Hoffm. f. leptophylla (Wallr.) Zahlbr. = Lobaria pulmonaria
 Lobaria pulmonaria (L.) Hoffm. f. soredata (Schaer.) Zahlbr. = Lobaria pulmonaria
 Lobaria verrucosa (Huds.) Hoffm. = Lobaria scrobiculata
 Lobarina scrobiculata (Scop.) Nyl. ex Cromb. = Lobaria scrobiculata

Mallotium tomentosum Körb. = Leptogium saturninum
 Massjukiella candelaria (L.) S.Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.-S. Hur & A. Thell =
 Polycauliona candelaria
 Massjukiella polycarpa (Hoffm.) S.Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.-S. Hur & A. Thell
 = Polycauliona polycarpa
 Massjukiella ucrainica (S.Y. Kondr.) S.Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.-S. Hur &
 A. Thell = Polycauliona ucrainica
 Massjukiella ucrainica (S.Y. Kondr.) S.Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.-S. Hur & A.
 Thell ssp. marginata (Räsänen) S.Y. Kondr., Fedorenko, S. Stenroos, Kärnefelt, Elix, J.-S. Hur & A.
 Thell = Polycauliona ucrainica
 Melanelia acetabulum (Neck.) Essl. = Pleurosticta acetabulum
 Melanelia exasperata (De Not.) Essl. = Melanohalea exasperata
 Melanelia exasperatula (Nyl.) Essl. = Melanohalea exasperatula
 Melanelia fuliginosa (Fr. ex Duby) Essl. sensu auct. Belarus = Melanelixia glabratula
 Melanelia fuliginosa (Fr. ex Duby) Essl. subsp. glabratula (Lamy) Coppins = Melanelixia glabratula
 Melanelia glabratula (Lamy) Essl. ssp. glabratula (Lamy) Coppins = Melanelixia glabratula
 Melanelia incolorata (Parrique) Essl. = Melanohalea elegantula
 Melanelia olivacea (L.) Essl. = Melanohalea olivacea
 Melanelia soredata (Ach.) Goward & Ahti = Montanelia soredata
 Melanelia subargentifera (Nyl.) Essl. = Melanelixia subargentifera
 Melanelia subaurifera (Nyl.) Essl. = Melanelixia subaurifera
 Melanelixia fuliginosa (Duby) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch ssp.
 glabratula (Lamy) J.R. Laundon = Melanelixia glabratula
 Melanelixia fuliginosa (Duby) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch sensu auct.
 Belarus = Melanelixia glabratula
 Melanelixia subaurifera (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch f.
 fuliginoides B. de Lesd. = Melanelixia subaurifera
 Melaspilea gibberulosa (Ach.) Zwackh = Hazslinszkyia gibberulosa
 Menegazzia pertusa (Schränk.) Schaer. = Menegazzia terebrata
 Micarea erratica (Körb.) Hertel, Rambold & Pietschm. = Leimonis erratica
 Micarea sylvicola (Flot.) Vězda & V. Wirth = Brianaria sylvicola
 Micarea tuberculata (Sommerf.) R.A. Anderson = Brianaria tuberculata
 Microphlale diluta (Pers.) Zahlbr. = Coenogonium pineti
 +Microthelia atomaria (Ach.) Körb. = Mycomicrothelia melanospora
 +Microthelia koerberi Trevis. = Mycomicrothelia melanospora
 #Monerolechia badia (Fr.) Kalb = Buellia badia
 Mycobilimbia sabuletorum (Schreb.) Hafellner = Bilimbia sabuletorum
 Mycoblastus sanguinarius (L.) Norman = Megalospora sanguinaria
 +Mycocalicium parietinum (Ach. ex Schaer.) D. Hawksw. = Mycocalicium subtile
 Mycomicrothelia atomaria (DC.) Keissl. = Leptorhaphis atomaria
 Mycopyrenula coryli (A. Massal.) Vain. = Pyrenula coryli
 Myxobilimbia sabuletorum (Schreb.) Hafellner = Bilimbia sabuletorum

Neofuscelia loxodes (Nyl.) Essl. = Xanthoparmelia loxodes
 Neofuscelia pulla (Ach.) Essl. = Xanthoparmelia pulla
 Neofuscelia verruculifera (Nyl.) Essl. = Xanthoparmelia verruculifera

Nephroma resupinatum (L.) Ach. var. *rameum* Nyl. = *Nephroma resupinatum*

Ochrolechia turneri (Sm.) Land. sensu Gorbach = *Ochrolechia microstictoides*

Omphalina ericetorum (Fr.) M. Lange = *Lichenomphalia umbellifera*

Opegrapha atra Pers. = *Arthonia atra*

Opegrapha devulgata Nyl. = *Opegrapha vulgata*

Opegrapha diaphora (Ach.) Ach. = *Alyxoria varia*

Opegrapha diaphora Ach. var. *spicata* Ach. = *Alyxoria varia*

Opegrapha diaphora Ach. var. *tridens* (Ach.) H. Olivier = *Alyxoria varia*

Opegrapha hapaleoides Nyl. = *Opegrapha vermicellifera*

Opegrapha herpetica Ach. = *Pseudoschismatomma rufescens*

Opegrapha lichenoides Pers. = *Alyxoria varia*

Opegrapha pulicaris (Hoffm.) Schrad. = *Alyxoria varia*

Opegrapha pulicaris (Hoffm.) Schrad. f. *minuta* = *Alyxoria varia*

Opegrapha rufescens Pers. = *Pseudoschismatomma rufescens*

Opegrapha rufescens Pers. f. *albicans* (Chevall.) Makar. = *Pseudoschismatomma rufescens*

Opegrapha rufescens Pers. f. *arthonoidea* (Schaer.) Makar. = *Pseudoschismatomma rufescens*

Opegrapha subsiderella (Nyl.) Arnold = *Opegrapha niveoatra*

Opegrapha varia Pers. = *Alyxoria varia*

Opegrapha varia Pers. var. *diaphora* Ach. = *Alyxoria varia*

Opegrapha varia Pers. var. *pulicaris* Hoffm. = *Alyxoria varia*

Opegrapha varia Pers. f. *pulicaris* (Hoffm.) Nyl. = *Alyxoria varia*

Opegrapha viridis Pers. = *Zwackhia viridis*

Oxneria coppinsii S.Y. Kondr. & Kärnefelt = *Xanthomendoza coppinsii*

Oxneria fallax (Hepp) S.Y. Kondr. & Kärnefelt sensu auct. Belarus = *Xanthomendoza huculica*

Oxneria fulva (Hoffm.) S.Y. Kondr. & Kärnefelt = *Xanthomendoza fulva*

Oxneria huculica S.Y. Kondr. = *Xanthomendoza huculica*

Oxneria ulophyllodes (Räsänen) S.Y. Kondr. & Kärnefelt = *Xanthomendoza ulophyllodes*

Pachyphiale fagicola (Hepp) Zwackh = *Gyalecta fagicola*

Parmelia acetabulum (Neck.) Duby = *Pleurosticta acetabulum*

Parmelia ambigua (Wulfen) Ach. = *Parmeliopsis ambigua*

Parmelia aspera A. Massal. = *Melanohalea exasperata*

Parmelia aspidota (Ach.) Röhl. = *Melanohalea exasperata*

Parmelia caperata (L.) Ach. = *Flavoparmelia caperata*

Parmelia centrifuga (L.) Ach. = *Arctoparmelia centrifuga*

Parmelia ceratea Zopf = *Pseudevernia furfuracea*

Parmelia cetrarioides Delise = the reports should be treated as *Cetrelia* spp.

Parmelia ciliaris Fr. = *Anaptychia ciliaris*

Parmelia conspersa (Ehrh.) Ach. = *Xanthoparmelia conspersa*

Parmelia conspersa (Ehrh.) Ach. f. *isidiata* Anzi = *Xanthoparmelia conspersa*

Parmelia conspurcata (Schaer.) Vain. = *Melanelixia subargentifera*

Parmelia cylisphora (Ach.) Vain. = *Flavoparmelia caperata*

Parmelia duplicata Sm. ex Ach. = *Hypogymnia vittata*

Parmelia elegantula (Zahlbr.) Räsänen = *Melanohalea elegantula*

Parmelia exasperata De Not. = *Melanohalea exasperata*

Parmelia exasperatula Nyl. = *Melanohalea exasperatula*

Parmelia farinacea Bitter = *Hypogymnia farinacea* Zopf

Parmelia fuliginosa (Fr.) Nyl. sensu auct. Belarus = *Melanelixia glabratula*

Parmelia fuliginosa (Fr.) Nyl. var. *laetevirens* Nyl. = *Melanelixia glabratula*

Parmelia furfuracea (L.) Ach. = *Pseudevernia furfuracea*

Parmelia furfuracea (L.) Ach. var. *ceratea* Ach. = *Pseudevernia furfuracea*

Parmelia glabra (Nyl.) Vain. var. *conspurcata* (Schaer.) Elenk. = *Melanelixia subargentifera*

Parmelia glabratula Lamy = *Melanelixia glabratula*

Parmelia glabratula (Lamy) Nyl. ssp. *fuliginosa* (Fr. ex Duby) J.R. Laundon sensu auct. Belarus =
Melanelixia glabratula

Parmelia glomellifera Nyl. = *Xanthoparmelia verruculifera*
Parmelia isidiotyta Nyl. auct. Belarus = *Xanthoparmelia verruculifera*
Parmelia laetevirens (Flot.) F. Rosend. = *Melanelixia glabratula*
Parmelia molliuscula Ach. sensu auct. Belarus = *Xanthoparmelia angustiphylla*
Parmelia olivacea (L.) Ach. = *Melanohalea olivacea*
Parmelia papulosa (Anzi) Vain. = *Melanohalea exasperatula*
Parmelia papulosa (Anzi) Vain. f. *epiphylla* Savicz = *Melanohalea exasperatula*
Parmelia parietina = *Xanthoria parietina*
Parmelia perlata (L.) Ach. nom. invalid., refers to *Cetrelia* spp.
Parmelia perlata (L.) Ach. f. *cetrarioides* (Del.) Elenk. nom. invalid., refers to *Cetrelia* spp.
Parmelia perlata (L.) Ach. f. *sorediata* Schaer. nom. invalid., refers to *Cetrelia* spp.
Parmelia perlata (L.) Ach. f. *sorediifera* Oksner nom. invalid., refers to *Cetrelia* spp.
Parmelia pertusa (Schrank) Schaer. = *Menegazzia terebrata*
Parmelia physodes (L.) Ach. = *Hypogymnia physodes*
Parmelia physodes (L.) Ach. f. *arenicola* (B. de Lesd.) = *Hypogymnia physodes*
Parmelia physodes (L.) Ach. f. *cassidiformis* Vereit. = *Hypogymnia physodes*
Parmelia physodes (L.) Ach. f. *epiphylla* Savicz = *Parmelia physodes*
Parmelia physodes (L.) Ach. f. *foraminifera* Vereit. = *Hypogymnia physodes*
Parmelia physodes (L.) Ach. f. *granulata* Boistel = *Hypogymnia physodes*
Parmelia physodes (L.) Ach. f. *labrosa* Ach. = *Hypogymnia physodes*
Parmelia physodes (L.) Ach. f. *platyphylla* Ach. = *Hypogymnia physodes*
Parmelia physodes (L.) Ach. f. *stigmata* Wallr. = *Hypogymnia physodes*
Parmelia physodes (L.) Ach. f. *typica* Vereit. = *Hypogymnia physodes*
Parmelia physodes (L.) Ach. var. *labrosa* Ach. = *Hypogymnia physodes*
Parmelia proluxa (Ach.) Nyl. = *Xanthoparmelia pulla*
Parmelia pulla Ach. = *Xanthoparmelia pulla*
Parmelia pulverulenta Hoffm. = *Physconia distorta*
Parmelia revoluta Flörke = *Hypotrachyna revoluta*
Parmelia rubescens (Th. Fr.) Vain. = *Cetrelia olivetorum*, but excluded as doubtful report
Parmelia saxatilis (L.) Ach. var. *aizonii* Delise = *Parmelia saxatilis*
Parmelia scortea (Ach.) Ach. = *Parmelina tiliacea*
Parmelia sorediata (Ach.) Th. Fr. = *Montanelia sorediata*
Parmelia sorediosa Almb. = *Montanelia sorediata*
Parmelia stipitata Taylor = *Parmotrema stipitatum*
Parmelia subargentifera Nyl. = *Melanelixia subargentifera*
Parmelia subaurifera Nyl. = *Melanelixia subaurifera*
Parmelia sulcata Taylor f. *epiphylla* Savicz = *Parmelia sulcata*
Parmelia sulcata Taylor f. *munda* Oliv. = *Parmelia sulcata*
Parmelia sulcata Taylor f. *nitida* Mereschk. = *Parmelia sulcata*
Parmelia sulcata Taylor f. *pruinosa* Hillm. = *Parmelia sulcata*
Parmelia taractica sensu auct. Belarus = *Xanthoparmelia angustiphylla*
Parmelia tiliacea (Hoffm.) Ach. = *Parmelina tiliacea*
Parmelia tubulosa (Schaer.) Bitter = *Hypogymnia tubulosa*
Parmelia verruculifera Nyl. = *Xanthoparmelia verruculifera*
Parmelia vittata (Ach.) Bitter = *Hypogymnia vittata*
Parmeliopsis aleurites (Ach.) Nyl. = *Imshaugia aleurites*
Parmeliopsis pallescens (Hoffm.) Zahlbr. = *Imshaugia aleurites*
Parmeliopsis pallescens (Hoffm.) Hillm. f. *vulnerata* (Hillm.) Rassad. = *Imshaugia aleurites*
Parmotrema stipitata (Taylor) Hale = *Parmotrema stipitatum*
Peltigera canina (L.) Schaer. var. *praetextata* Flörke = *Peltigera praetextata*
Peltigera canina (L.) Hoffm. f. *leucorrhiza* (Flörke) Schaer. = *Peltigera canina*
Peltigera canina (L.) Schaer. f. *praetextata* Flörke = *Peltigera praetextata*
Peltigera canina (L.) Willd. f. *spongiosa* Tuck. = *Peltigera canina*
Peltigera canina (L.) Hoffm. f. *ulorrhiza* (Flörke) Schaer. = *Peltigera rufescens*
Peltigera didactyla (With.) J.R. Laundon var. *extenuata* (Nyl. ex Vain.) Goffinet & Hastings = *Peltigera extenuata*

Peltigera erumpens (Taylor) Vain. = *Peltigera didactyla*
Peltigera erumpens (Tayl.) Lang. var. *hazslinszkyi* (Gyeln.) Oksner = *Peltigera didactyla*
Peltigera polydactyla (Neck.) Hoffm. = the name refers to various *Peltigera* species, including *P. hymenina*,
P. neckeri, *P. neopolydactyla* and *P. polydactylon* (see also Golubkov & Zavarzin 2010)
Peltigera polydactyla Hoffm. var. *hymenina* Ach. = *Peltigera hymenina*
Peltigera spuria (Ach.) DC. = *Peltigera didactyla*
Peltigera subcanina Gyeln. = *Peltigera praetextata*
Pertusaria albescens (Huds.) M. Choisy & Werner = *Lepra albescens*
Pertusaria amara (Ach.) Nyl. = *Lepra amara*
Pertusaria amara (Ach.) Nyl. f. *carpini* Erichsen = *Lepra amara*
Pertusaria amara (Ach.) Nyl. f. *macrosora* Erichsen = *Lepra amara*
Pertusaria amara (Ach.) Nyl. f. *sanguinescens* Erichsen = *Lepra amara*
Pertusaria amara (Ach.) Nyl. var. *alnea* (Ach.) Erichsen = *Lepra amara*
Pertusaria amara (Ach.) Nyl. var. *myrmecina* (Erichsen) Makar. = *Lepra amara*
Pertusaria amara (Ach.) Nyl. var. *pulvinata* (Erichsen) Makar. = *Lepra amara*
Pertusaria arborea (Kreyer) Zahlbr. = *Ochrolechia arborea*
Pertusaria coccodes (Ach.) Nyl. var. *farinosa* Erichsen = *Pertusaria coccodes*
Pertusaria communis DC. = *Pertusaria pertusa*
Pertusaria discoidea (Pers.) Malme = *Lepra albescens*
Pertusaria discoidea (Pers.) Malme f. *minor* Erichsen = *Lepra albescens*
Pertusaria discoidea (Pers.) Malme f. *musciicola* Erichsen = *Lepra albescens*
Pertusaria globulifera (Turner) A. Massal. = *Lepra albescens*
Pertusaria globulifera (Turner) A. Massal. f. *saxicola* Arnold = *Lepra albescens*
Pertusaria globulifera (Turner) A. Massal. f. *henrici* Harm. = *Lepra albescens*
Pertusaria hemisphaerica (Flörke) Erichsen = *Varicellaria hemisphaerica*
Pertusaria henrici (Harm.) Erichsen = *Lepra albescens*
Pertusaria laevigata (Nyl.) Arnold = *Lepra trachythallina*
Pertusaria lactea (L.) Arnold = *Varicellaria lactea*
Pertusaria leptospora Nitschke = *Lepra multipuncta*
Pertusaria leucostoma A. Massal. = *Pertusaria leioplaca*
Pertusaria leucostoma (Bernh.) A. Massal. var. *deshiscens* Erichsen = *Pertusaria leioplaca*
Pertusaria lutescens (Hoffm.) Lamy = *Pertusaria flavida*
Pertusaria multipuncta (Turner) Nyl. = *Lepra multipuncta*
Pertusaria multipuncta (Turner) Nyl. var. *leptospora* Oliv. = *Lepra multipuncta*
Pertusaria ophthalmisa (Nyl.) Nyl. = *Lepra ophthalmiza*
Pertusaria pertusa (L.) Tuck. var. *pertusa* = *Pertusaria pertusa*
Pertusaria pertusa (L.) Tuck. var. *polycarpa* (D.S. Clemente) Zahlbr. = *Pertusaria pertusa*
Pertusaria phymatodes (Ach.) Erichsen = *Pertusaria coccodes*
Pertusaria rugosa Zwakch. nom. dub. = *Pertusaria leioplaca*
Pertusaria rugulosa Zwakch. = *Pertusaria leioplaca*
Pertusaria trachythallina Erichsen = *Lepra trachythallina*
Phaeophyscia chloantha (Ach.) Moberg = *Physciella chloantha*
Physcia adscendens (Fr.) Bitter f. *leptalea* Ach. = *Physcia leptalea*
Physcia aipolia (Ehrh. ex Humb.) Fürnr. var. *alnophila* (Vain.) Lynge = *Physcia alnophila*
Physcia astroidea auct. = *Physcia clementei*
Physcia ciliata (Hoffm.) Du Rietz = *Phaeophyscia ciliata*
Physcia ciliata (Hoffm.) Du Rietz f. *typica* Oksner = *Phaeophyscia ciliata*
Physcia cycloselis Vain. = *Phaeophyscia orbicularis*
Physcia detera Nyl. = *Physconia detera*
Physcia grisea (Lam.) Zahlbr. = *Physconia grisea*
Physcia grisea (Lam.) Zahlbr. sensu Tomin = *Physconia detera*
Physcia grisea (Lam.) Elenk. var. *leucoleiptes* Tuck. = *Physconia detera*
Physcia grisea (Lam.) Elenk. var. *leucoleiptes* Tuck. f. *argyphaeoides* Harm. = *Physconia detera*
Physcia grisea (Lam.) Elenk. var. *leucoleiptes* Tuck. f. *typica* Elenk. = *Physconia detera*
Physcia grisea (Lam.) Zahlbr. var. *pityrea* (Ach.) Lynge = *Physconia grisea*
Physcia grisea (Lam.) Zahlbr. var. *semifarrea* (Vain.) Lynge = *Physconia grisea*

Physcia hispida sensu auct. Belarus = *Physcia adscendens*
Physcia hispida sensu auct. Gorbach = *Physcia tenella*
Physcia hispida (Schreb.) Elenk. var. *adscendens* Fr. = *Physcia adscendens*
Physcia hispida (Schreb.) Elenk. var. *tenella* (Scop.) Fr. = *Physcia tenella*
Physcia hispida (Schreb.) Elenk. var. *tenella* (Scop.) Fr. f. *epiphylla* Savicz = *Physcia tenella*
Physcia leucoleiptes (Tuck.) Lettau = *Physconia detersa*
Physcia nigricans (Flörke) Stizenb. = *Phaeophyscia nigricans*
Physcia obscura (Ehrh.) Th. Fr. = *Phaeophyscia ciliata*
Physcia obscura Ehrh. var. *chloantha* (Ach.) Schaer. = *Physciella chloantha*
Physcia obscura Ehrh. var. *virella* (Ach.) Leight. = *Phaeophyscia orbicularis*
Physcia obscura (Ehrh.) Th. Fr. f. *cycloselis* (Ach.) Th. Fr. = *Phaeophyscia ciliata*
Physcia obscura (Ehrh.) Th. Fr. f. *ulothrix* (Ach.) Th. Fr. = *Phaeophyscia ciliata*
Physcia orbicularis (Neck.) Du Rietz = *Phaeophyscia orbicularis*
Physcia pityrea (Ach.) Nyl. = *Physconia grisea*
Physcia pulverulenta (Schreb.) Hampe = *Physconia distorta*
Physcia pulverulenta (Schreb.) Nyl. var. *allochroa* (Ehrh.) Th. Fr. = *Physconia distorta*
Physcia pulverulenta (Schreb.) Nyl. var. *allochroa* (Ehrh.) Th. Fr. f. *argyphaea* (Ach.) Harm. = *Physconia distorta*
Physcia pulverulenta (Ach.) Nyl. var. *allochroa* (Ehrh.) Th. Fr. f. *imbricata* B. de Lesd. = *Physconia distorta*
Physcia pulverulenta (Schreb.) Nyl. var. *turgida* (Schaer.) Elenk. f. *imbricata* B. de Lesd. = *Physconia distorta*
Physcia pulverulenta (Schreb.) Nyl. f. *venusta* (Ach.) Th. Fr. = *Physconia distorta*
Physcia pulverulenta (Ach.) Nyl. var. *venusta* (Ach.) Nyl. = *Physconia distorta*
Physcia semipinnata (J.F. Gmel.) Moberg = *Physcia leptalea*
Physcia stellaris (L.) Nyl. var. *radiala* (Ach.) Nyl. = *Physcia stellaris*
Physcia stellaris (L.) Nyl. var. *rosulata* (Ach.) Nyl. = *Physcia stellaris*
Physcia tenella (Scop.) DC. f. *leptalea* Ach. = *Physcia leptalea*
Physcia tenella (Scop.) DC. f. *exemta* Ach. = *Physcia tenella*
Physcia tremulicola Nyl. = *Phaeophyscia nigricans*
Physcia tremulicola Nyl. f. *typica* Lynge = *Phaeophyscia nigricans*
Physcia virella (Ach.) Kreyer = *Phaeophyscia orbicularis*
Physconia pulverulacea Moberg = *Physconia distorta*
Physconia pulverulenta (Hoffm.) Poelt = *Physconia distorta*
Physconia venusta (Ach.) Poelt sensu auct. Belarus = *Physconia distorta*
Placodium aurantiacum (Lightf.) Hepp var. *flavovirescens* (Wulfen) Th. Fr. = *Gyalolechia flavovirescens*
Placodium cerinellum (Nyl.) Vain. = *Athallia cerinella*
Placodium cerinum (Ehrh.) Vain. sensu auct. Belarus = *Athallia pyracea* s. lat.
Placodium cerinum (Ehrh.) Vain. f. *holocarpa* (Ehrh.) Elenk. sensu auct. Belarus = *Athallia pyracea* s. lat.
Placodium ferrugineum (Huds.) Hepp sensu Kreyer = *Blastenia crenularia*
Placodium gilvum (Hoffm.) Vain. = *Caloplaca cerina*
Placodium gilvum (Hoffm.) Vain. f. *cyanolepra* Th. Fr. = *Caloplaca cerina*
Placodium gilvum (Hoffm.) Vain. var. *ehrhartii* (Schaer.) Th. Fr. = *Caloplaca cerina*
Placodium murorum (Hoffm.) DC. = *Calogaya pusilla*
Placodium murorum (Hoffm.) DC. var. *regularis* (Ehrh.) Elenk. = *Calogaya pusilla*
Placolecanora muralis (Schreb.) Räsänen = *Protoparmeliopsis muralis*
Porina aenea (Wallr.) Zahlbr. = *Pseudosagedia aenea*
Porina carpineae (Pers.) Zahlbr. = *Pseudosagedia aenea*
Porpidia musiva (Körb.) Hertel & Knoph = *Porpidia cinereoatra*
Pseudevernia furfuracea (L.) Zopf var. *ceratea* (Ach.) D. Hawksw. = *Pseudevernia furfuracea*
Pseudosagedia cerasi (Schrad.) Oksner = *Arthopyrenia cerasi*
Psora ostreata Hoffm. = *Hypocenomyce scalaris*
Psora scalaris (Ach. ex Lilj.) Hook. = *Hypocenomyce scalaris*
Pyrrosopora elabens (Fr.) Hafellner = *Ramboldia elabens*

Ramalina angustissima (Anzi) Vain. = *Ramalina subfarinacea*
Ramalina baltica Lettau f. *lobulosa* Kreyer = *Ramalina baltica*

Ramalina baltica Lettau f. *galeaformis* Kreyer = *Ramalina baltica*
Ramalina baltica Lettau var. *baltica* = *Ramalina baltica*
Ramalina crinalis (Ach.) Gyeln. = *Ramalina thrausta*
Ramalina crinalis (Ach.) Gyeln. var. *thrausta* (Ach.) Motyka = *Ramalina thrausta*
Ramalina dilacerata (Hoffm.) Hoffm. f. *turgida* Räsänen = *Ramalina dilacerata*
Ramalina fallax Motyka = *Ramalina farinacea*
Ramalina farinacea (L.) Ach. var. *pendulina* Ach. = *Ramalina farinacea*
Ramalina farinacea (L.) Ach. var. *multifida* Ach. = *Ramalina farinacea*
Ramalina farinacea (L.) Ach. var. *luxurians* Motyka = *Ramalina farinacea*
Ramalina farinacea (L.) Ach. var. *rubescens* Räsänen = *Ramalina farinacea*
Ramalina farinacea (L.) Ach. var. *gracilentata* Ach. = *Ramalina farinacea*
Ramalina farinacea (L.) Ach. var. *phalerata* Ach. = *Ramalina farinacea*
Ramalina farinacea (L.) Ach. var. *rubescens* Räsänen = *Ramalina farinacea*
Ramalina fastigiata (Liljeb.) Ach. var. *horrida* Motyka = *Ramalina fastigiata*
Ramalina fraxinea (L.) Ach. f. *ampliata* (Ach.) Schaer. = *Ramalina fraxinea*
Ramalina fraxinea (L.) Ach. f. *caliciformis* Nyl. = *Ramalina fraxinea*
Ramalina fraxinea (L.) Ach. var. *crispa* Motyka = *Ramalina fraxinea*
Ramalina landroënsis Zopf = *Ramalina sinensis*
Ramalina landroënsis Zopf v. *nervosa* (Nyl.) Motyka = *Ramalina sinensis*
Ramalina minuscula Nyl. = *Ramalina dilacerata*
Ramalina obtusata (Ach.) Bitter sensu auct. Belarus = *Ramalina baltica*
Ramalina pollinaria (Westr.) Ach. f. *hemisphaerica* Tomin = *Ramalina pollinaria*
Ramalina pollinaria (Westr.) Ach. var. *elatior* Ach. = *Ramalina pollinaria*
Ramalina pollinaria (Westr.) Ach. var. *humilis* Ach. = *Ramalina pollinaria*
Ramalina pollinaria (Westr.) Ach. var. *subbaltica* Kreyer = *Ramalina pollinaria*
Ramalina populina (Ehrh. ex Hoffm.) Vain. = *Ramalina fastigiata*
Ramalina pulvinata (Anzi) Jatta sensu auct. Belarus = *Ramalina pollinaria*
Rhizocarpon ambiguum (Schaer.) Zahlbr. = *Rhizocarpon distinctum*
Rhizocarpon concentricum (Davies) Beltr. = *Rhizocarpon petraeum*
Rhizocarpon concentricum (Dav.) Beltr. f. *excentricum* Ach. = *Rhizocarpon petraeum*
Rhizocarpon obscuratum (Flörke) Körb. = *Rhizocarpon reductum*
Rhizocarpon obscuratum (Flörke) Körb. f. *subcontiguum* Nyl. = *Rhizocarpon reductum*
Rhizocarpon obscuratum (Ach.) A. Massal. var. *lavatum* (Ach.) Fr. = *Rhizocarpon lavatum*
Rinodina arenaria (Hepp) Th. Fr. = *Rinodina teichophila*
Rinodina discolor (Hepp) Arnold = *Rinodina oxydata*
Rinodina exigua (Ach.) A. Massal. var. *lecideina* Nyl. = identity uncertain
Rinodina sophodes (Ach.) Th. Fr. var. *genuina* Th. Fr. = misidentification
Rinodina subexigua (Nyl.) H. Olivier = *Rinodina gennarii*

Saccomorpha arenicola Elenkin = *Placynthiella hyporhoda*
Saccomorpha uliginosa (Schr.) Hafellner = *Placynthiella uliginosa*
Sarcogyne pruinosa (Sm.) Körb. f. *illuta* Ach. = *Sarcogyne regularis*
Schismatomma abietinum (Ehrh.) Körb. = *Schismatomma pericleum*
Sclerophora nivea (Hoffm.) Tibell = *Sclerophora pallida*
Scoliciosporum umbrinum (Ach.) Arnold var. *corticolum* (Anzi) Bagl. & Carestia = *Scoliciosporum umbrinum*

Sphinctrina gelasinata (With.) Zahlbr. = *Sphinctrina turbinata*
Squamaria muralis (Schreb.) Elenk. = *Protoparmeliopsis muralis*
Staurothele catalepta (Ach.) Blomb. & Forssell = *Verrucaria aethiobola*
Stereocaulon coralloides Fr. = *Stereocaulon dactylophyllum*
Sticta pulmonaria (L.) Schaer. = *Lobaria pulmonaria*

Thelocarpon prasinellum Nyl. = *Thelocarpon laureri*
Tuckermannopsis chlorophylla (Willd.) Hale = *Nephromopsis chlorophylla*
Tuckermannopsis ciliaris (Ach.) Gyeln. = *Nephromopsis ciliaris*
Tuckermannopsis pinastri (Scop.) Hale = *Cetraria pinastri*

Tuckermannopsis sepincola (Ehrh.) Hale = *Cetraria sepincola*

Urceolaria scruposa (L.) Ach. var. *vulgaris* Körb. = *Diploschistes scruposus*

Usnea barbata (L.) Fr. var. *dasy-poga* (L.) Fr. = misidentification

Usnea barbata (L.) Fr. var. *florida* (L.) Th. Fr. = *Usnea florida*

Usnea barbata (L.) Fr. var. *florida* (L.) Th. Fr. f. *hirta* (L.) Körb = *Usnea hirta*

Usnea barbata (L.) Fr. var. *florida* (L.) Th. Fr. f. *minutissima* Mereschk. = *Usnea florida*

Usnea caucasica Vain. = *Usnea barbata*

Usnea ceratina Ach. var. *incurvescens* Arnold = *Usnea ceratina*

Usnea comosa (Ach.) Röhl. = *Usnea subfloridana*

Usnea comosa (Ach.) Röhl. var. *graucina* Motyka = *Usnea subfloridana*

Usnea comosa (Ach.) Röhl. var. *sordidula* Motyka = *Usnea subfloridana*

Usnea comosa (Ach.) Röhl. ssp. *similis* Motyka = *Usnea subfloridana*

Usnea dasy-poga (Ach.) Röhl. ssp. *tuberculata* Motyka = *Usnea dasopoga*

Usnea dasy-poga (Ach.) Röhl. var. *dasy-poga* = *Usnea dasopoga*

Usnea distincta Motyka nom illeg. = *Usnea glabrescens*

Usnea esthonica Räsänen = *Usnea barbata*

Usnea filipendula Stirt. = *Usnea dasopoga*

Usnea filipendula Stirt. var. *spuria* (Motyka) N.S. Golubk. = *Usnea dasopoga*

Usnea florida (L.) F.H. Wigg. var. *florida* = *Usnea florida*

Usnea florida (L.) Hoffm. var. *hirta* (Hoffm.) Ach. = *Usnea hirta*

Usnea florida (L.) Hoffm. var. *hirta* (Hoffm.) Ach. f. *minutissima* Mereschk. = *Usnea florida*

Usnea florida (L.) Hoffm. var. *hirta* (Hoffm.) Ach. f. *sorediella* Br. & Rostr. = *Usnea florida*

Usnea florida (L.) Hoffm. var. *sorediifera* Arnold = *Usnea glabrata*

Usnea florida (L.) Hoffm. f. *epiphylla* Savicz = *Usnea hirta*

Usnea florida (L.) Hoffm. f. *juvenalis* Savicz = *Usnea florida*

Usnea hirta (L.) F.H. Wigg. ssp. *typica* Motyka = *Usnea hirta*

Usnea hirta (L.) F.H. Wigg. var. *hirta* Motyka = *Usnea hirta*

Usnea hirta (L.) F.H. Wigg. var. *villosa* (Ach.) Motyka = *Usnea hirta*

Usnea hirta (L.) Weber ex F.H. Wigg. f. *minutissima* Mereschk. = *Usnea hirta*

Usnea jubata Hoffm. – name can be applied to various pendent species of *Bryoria* (see Brodo & Hawksworth 1977, Esslinger 2016)

Usnea laricina (Nyl. ex Vain.) Vain. = *Usnea glabrescens*

Usnea plicata (L.) Hoffm. = *Usnea dasopoga*

Usnea prostrata Vain. = *Usnea barbata*

Usnea rubiginosa (Mich.) A. Massal. = *Usnea rubicunda*

Usnea rugulosa Vain. = *Usnea barbata*

Usnea scabrata Nyl. = *Usnea barbata*

Usnea sublaxa Vain. = *Usnea dasopoga*

Usnea sylvatica Motyka = *Usnea barbata*

Variolaria arborea (Kreyer) Ljubitz. = *Ochrolechia arborea*

Variolaria globulifera Turner = *Lepra albescens*

Variolaria faginea (L.) Elenk. = *Lepra amara*

Variolaria faginea (L.) Elenk. f. *concentrica* Savicz = *Lepra amara*

Variolaria lactea (Pers.) Ach. var. *arborea* Kreyer = *Ochrolechia arborea*

Variolaria laevigata (Nyl.) Darb. = *Lepra trachythallina*

Variolaria multipuncta Turner = *Lepra multipuncta*

Verrucaria laevata Ach. = *Verrucaria aethiobola*

Verrucaria muralis Ach. var. *puteana* Hepp = *Verrucaria muralis*

Verrucaria nigricans Pers. nom. inval. = *Verrucaria nigrescens*

Verrucaria papillosa Flörke = *Verrucaria floerkeana*

Vulpicida juniperinus. (L.) J.-E. Mattsson & M. J. Lai = *Cetraria juniperina*

Vulpicida pinastri (Scop.) J.-E. Mattsson & M. J. Lai = *Cetraria pinastri*

Xanthomendoza fallax (Arnold) Søchting, Kärnefelt & S.Y. Kondr. = *Xanthomendoza huculica*

Xanthoparmelia somloensis (Gyeln.) Hale sensu auct. Belarus = Xanthoparmelia angustiphylla
 Xanthoparmelia molliuscula (Ach.) Hale sensu auct. Belarus = Xanthoparmelia angustiphylla
 Xanthoria candelaria (L.) Th. Fr. = Polycauliona candelaria
 Xanthoria candelaria (L.) Th. Fr. var. marginata Räsänen = Polycauliona ucrainica
 Xanthoria elegans (Link) Th. Fr. = Rusavskia elegans
 Xanthoria fallax (Hepp) Arnold sensu Belarus = Xanthomendoza huculica
 Xanthoria fulva (Hoffm.) Poelt & Petut. = Xanthomendoza fulva
 Xanthoria ligulata (Körb.) P. James = Dufourea ligulata
 Xanthoria lobulata (Flörke) B. de Lesd. = Calogaya lobulata
 Xanthoria parietina (L.) Th. Fr. var. tumida Wede = Xanthoria parietina
 Xanthoria polycarpa (Hoffm.) Rieber = Polycauliona polycarpa
 Xanthoria polycarpa (Ehrh.) Vain. var. lychnea (Ach.) Vain. = Polycauliona polycarpa
 Xanthoria substellaris (Ach.) Vain. = Xanthomendoza huculica
 Xanthoria ucrainica S.Y. Kondr. = Polycauliona ucrainica
 Xanthoria ucrainica S.Y. Kondr. subsp. marginata (Räsänen) S.Y. Kondr. & Kärnefelt = Polycauliona ucrainica
 Xanthoria ulophyllodes Räsänen = Xanthomendoza ulophyllodes
 Xylographa abietina (Pers.) Zahlbr. = Xylographa parallela
 Xylographa parela (Ach.: Fr.) Fr. nom. inval. = Xylographa parallela
 Xylographa parella (Ach.) Behlen & Desbois (misspelling) = Xylographa parallela

ACKNOWLEDGEMENTS

James Lendemer (New York) is deeply thanked for the excellent technical and linguistic support. I thank Jurga Motiejūnaitė (Vilnius) for encouraging me to prepare this paper. I thank the following for discussion of historical items: Teuvo Ahti (Helsinki, *Parmelia* and *Xanthoparmelia*), Paweł Czarnota (Rzeszów, *Micarea*), Pradeep K. Divakar (Madrid, *Cetrelia* and *Parmelia*), Juha Pykälä (Helsinki, *Verrucaria*), Arne Thell (Lund, *Parmelia*, *Parmotrema* and *Punctelia*). Pavel Bely (Minsk), Vladimir Golubkov (Grodno), Evgeny S. Korchikov (Samara), Jurga Motiejūnaitė (Vilnius) and Eugene O. Yurchenko (Pinsk) are warmly thanked for their help with the literature search. I am indebted to Ludmila V. Gagarina (Saint Petersburg) and Teuvo Ahti (Helsinki) for checking collections in LE and H, respectively. Kerry Knudsen (Prague) is warmly thanked for consideration on the first draft of the MS. I thank anonymous reviewers and the associate editors for the constructive comments and suggestions on the manuscript. My warmest thanks are due to my wife Natalia and my son Nikolai for their patience during the work on this paper.

LITERATURE CITED

- Ahti, T. and S. Stenroos. 2013. *Cladonia*. In: T. Ahti, S. Stenroos and R. Moberg (eds.). *Nordic Lichen Flora, Volume 5: Cladoniaceae*. Zetterqvist tryckeri AB, Göteborg, pp. 8–87.
- Andreev, M.P. 2003a. Genus *Frutidella* Kalb. In: N.S. Golubkova (ed.). *Handbook of the lichens of Russia. 8. Bacidiaceae, Catillariaceae, Lecanoraceae, Megalariaceae, Mycobilimbiaceae, Rhizocarpaceae, Trapeliaceae*. Nauka, St-Petersburg, pp. 63–64. [in Russian].
- Andreev, M.P. 2003b. Fam. Lecanoraceae Fée emend. Hafellner. In: N.S. Golubkova (ed.). *Handbook of the lichens of Russia. 8. Bacidiaceae, Catillariaceae, Lecanoraceae, Megalariaceae, Mycobilimbiaceae, Rhizocarpaceae, Trapeliaceae*. Nauka, St-Petersburg, pp. 111–184. [in Russian].
- Andreeva, D.M., V.A. Bakharev, M.N. Blyoskina, V.V. Golubkov, V.S. Gumennyi, S.V. Gumennaya, F.I. Ignatovich, V.G. Kornelyuk, T.N. Soltan and L.Ya. Tolkach. 2006. Ecological excursions in Rumlevo Park, 2nd Edition. Grodno Press, Grodno, 92 p. [in Russian].
- Arup, U. and E. Sandler Berlin. 2011. A taxonomic study of *Melanelixia fuliginosa* in Europe. *The Lichenologist* 43(2): 89–97.
- Bachmann, E. and F. Bachmann. 1920. Litauische Flechten. *Hedwigia* 61(6): 308–342.
- Belomesyatseva, D.B. 2004. Mycobiota in a juniper consortium in Belarus. *Pravo i ekonomika*, Minsk, 236 pp. [in Russian].
- Bely, P.N. 2008a. Report of *Cladonia caespiticia* (Pers.) Flörke (Cladoniaceae, Ascomycota) from Berezinsky Biosphere Reserve. Specially Protected Natural Territories of Belarus: Research 3: 84–87. [in Russian].
- Bely, P.N. 2008b. Lichens of the Berezinsky Biosphere Reserve (Belarus) in need of special protection. In: A.P. Leshukov (ed.). *Organisms, populations, ecosystems: problems and ways of biodiversity conservation: Abstracts of the All-Russian conference "Water and terrestrial ecosystems: problems and prospects of research"*. Vologda State Pedagogical University, Vologda, pp. 174–176. [in Russian].

- Bely, P.N. 2010a. Lichen species diversity of disjointed spruce forests in Lelchitsy district (Gomel region, Belarus). *In: A.I. Kovalevich (ed.). Forest science in XXI century: Abstracts of International scientific conference.* Institute of forest, Gomel, pp. 393–396. [in Russian].
- Bely, P.N. 2010b. New localities for rare and protected lichen species in the Berezinsky Biosphere Reserve. *Botany Research* 38: 384–391. [in Russian].
- Bely, P.N. 2010c. Preliminary data on lichens of spruce forests from the Minsk Upland (Belarus). *In: E.L. Kordyum, O.V. Burova, V.M. Gerasimchuk, L.V. Dymytrova, I.A. Korotchenko, A.S. Mosiakin, M.M. Peregrim, O.V. Polishuk and G.I. Ruguzova (eds.). Advances in botany and ecology: Abstracts of International conference of young scientists.* Simpheropol, VD “ARIAL”, pp. 39–41. [in Russian].
- Bely, P.N. 2011a. Annotated list of lichens and lichenicolous fungi of spruce ecosystems of Belarus. *Specially Protected Natural Territories of Belarus: Research* 6: 146–178. [in Russian].
- Bely, P.N. 2011b. New lichen species to Belovezhskaya Pushcha. *In: L.N. Usacheva (ed.). Environmental state of the Polesie and adjacent territories: Abstracts of scientific conference.* BrSU, Brest, pp. 9–12. [in Russian].
- Bely, P. 2012a. *Absconditella lignicola* (Stictidaceae) – lichen species new to Belarus. *Botanica Lithuanica* 18(2): 164–165.
- Bely, P.N. 2012b. Lichen diversity in spruce forests on some protected natural areas in Baranovichi district (Brest region, Belarus). *In: V.S. Inkovich (ed.). Current state and prospects for the development of specially protected natural areas in the Republic of Belarus: Abstracts of the International scientific conference.* Belarusian Publishing House, Minsk, pp. 9–12. [in Russian].
- Bely, P.N. 2012c. New data on lichens of spruce forests from the Minsk Upland (Belarus). *In: I.B. Zavodnik (ed.). Actual Problems of Ecology: Abstracts of the VIII International scientific conference, Part 1.* Ya. Kupala Grodno State University, Grodno, pp. 11–13. [in Russian].
- Bely, P.N. 2013. Herbarium of lichen forming fungi of the Central Botanical Garden of the National Academy of Sciences of Belarus. *Botany Research* 42: 53–62. [in Russian].
- Bely, P.N. 2014. New findings of rare protected lichen species on the territory of the Republic of Belarus. *In: V.N. Burdz (ed.). Actual Problems of Ecology: Abstracts of the X International Scientific Conference, Part 1.* Ya. Kupala Grodno State University, Grodno, pp. 8–10. [in Russian].
- Bely, P.N. 2015a. Lichen herbarium of the Central Botanical Garden of the National Academy of Sciences of Belarus: current state. *In: V.V. Titok (ed.). Problems of conservation biology and use of biological resources: Abstracts of International scientific conference.* Konfido, Minsk, pp. 268–272. [in Russian].
- Bely, P.N. 2015b. Over-mature spruce woodlands of the Berezinsky Reserve as a reference object in the study of spruce forests in the southern taiga subzone. *In: V.S. Ivkovich (ed.). Perspectives of conservation and rational use of natural complexes of specially protected natural areas: Abstracts of International scientific conference.* Belarusian Publishing House, Minsk, pp. 9–11. [in Russian].
- Bely, P.N. 2016a. Lichens of spruce forests of Belarus. *Belaruskaja navuka*, Minsk, 230 pp. [in Russian].
- Bely, P. 2016b. New data on distribution and ecology of lichen *Parmotrema stuppeum* (Parmeliaceae, lichenized *Ascomycota*) in Belarus. *Botanica Lithuanica* 22(1): 93–95.
- Bely, P.N. 2016c. Zoological analysis of the lichen biota of spruce forests of Belarus. *Bulletin of A.A. Kuleshov Mogilev State University* 2(48): 72–83. [in Russian].
- Bely, P.N. and V.V. Golubkov. 2008. New and rare lichen species to Berezinsky Biosphere Reserve. *Specially Protected Natural Territories of Belarus: Research* 3: 69–83. [in Russian].
- Bely, P.N. and V.V. Golubkov. 2009a. New lichen species to Berezinsky Biosphere Reserve. *Botany Research* 37: 119–128. [in Russian].
- Bely, P.N. and V.V. Golubkov. 2009b. New data on distribution of *Heterodermia speciosa* (Physciaceae, Lichenes) in Belarus. *Proceedings of the National Academy of Sciences of Belarus. Biological Sciences series* 3: 19–22. [in Russian].
- Bely, P.N. and V.V. Golubkov. 2012. Contribution to the lichen flora of the Berezinsky Biosphere Reserve. *Botany Research* 41: 84–98. [in Russian].
- Bely, P.N. and M.V. Kudin. 2016. Lichen species diversity of disjointed spruce forests on the territory of Invanovo district (Brest region, Belarus). *In: A.V. Pugachevsky (ed.). Biology, systematics and ecology of fungi and lichens in natural and agricultural ecosystems: Abstracts of the II International conference.* Kolorgrad, Minsk, pp. 26–30. [in Russian].
- Bely, P.N. and A.M. Nikolaichuk. 2012. Quantitative characteristics of the epiphytic lichen flora of green plantations along transport highways in Minsk. *In: N.M. Dajneko (ed.). Young researchers to botanical science 2012: Abstracts of the III International scientific conference.* F. Skorina Gomel State University, Gomel, pp. 57–62. [in Russian].
- Bely, P.N. and M.P. Patapovich. 2012. Influence of environmental pollution on the content of biogenic elements in lichens (on an example of chemical composition analysis of *Hypogymnia physodes*). *In: N.M. Dajneko (ed.). Young researchers to botanical science 2012: Abstracts of the III International scientific conference.* F. Skorina Gomel State University, Gomel, pp. 62–66. [in Russian].
- Bely, P.N. and E.A. Sidorovich. 2013. *Hypocenomyce friesii* (Ophiopharmaceae, Ascomycota) – new lichen species to Belarus. *Reports of the National Academy of Sciences of Belarus (Biology)* 57(3): 103–105. [in Russian].

- Bely, P.N. and M.N. Vashkevich. 2017. Herbarium of lichen forming fungi of the Central Botanical Garden of the National Academy of Sciences of Belarus: modern state. In: V.V. Titok (ed.). *Role of Botanical Gardens and Arboretums in conservation, investigation and sustainable using diversity of the plant world: Abstracts of the International conference, Part 1*. Medisont, Minsk, pp 357–360. [in Russian].
- Bely, P.N. and A.P. Yatsyna. 2013. Ecological and geographical characteristics of *Lichenomphalia umbellifera* (Hygrophoraceae, Basidiomycota) in Belarus. Reports of the National Academy of Sciences of Belarus (Biology) 57(4): 100–104. [in Russian].
- Bely, P., V. Golubkov, A. Tsurykau and E. Sidorovich. 2014. The lichen genus *Cetrelia* in Belarus: distribution, ecology and conservation. *Botanica Lithuanica* 20(2): 69–76.
- Błoński, F. 1888. Spis roślin skrytokwiatowych zebranych w r. 1887 w puszczy Białowieskiej. *Pamiętnik fizyograficzny* 8: 75–119.
- Błoński, F. 1889. Spis roślin zarodnikowych zebranych lub zanotowanych w lecie w r. 1888 w puszczech: Białowieskiej, Świslockiej i Ladzkiej. *Pamiętnik fizyograficzny* 9: 63–101.
- Boiko, A.V., V.N. Kiselev, K.D. Chubanov, A.V. Bortnik, N.I. Pikulik and G.G. Bazylenko. 1981. Lichen indication of spreading of sulphur-containing technogenic emissions in green zone of Minsk. *Proceedings of the Academy of Sciences of the BSSR Series of Biological Sciences* 1: 23–26. [in Russian].
- Brodo, I.M. and D.L. Hawksworth. 1977. *Alectoria* and allied genera in North America. *Opera Botanica* 42: 1–164.
- Bungartz, F., A. Nordin and M. Grube. 2007. *Buellia*. In: T.H. Nash III, B.D. Ryan, C. Gries and F. Bungartz (eds.). *Lichen Flora of the Greater Sonoran Desert Region. Vol. 3*. Arizona State University, Tempe, pp. 113–179.
- Busko, E.G., E.A. Sidorovich, K.D. Chubanov, N.M. Arabei and N.I. Pikulik. 1995. Zoning of the republic territory by contamination level of forest ecosystems by technogenic pollutants based on lichen identification (Chapter 6). In: E.A. Sidorovich (ed.). *Technogenic contamination of forest ecosystems in Belarus*. Navuka i tekhnika, Minsk, pp. 105–148. [in Russian].
- Chernyshov, S.A. 2003. Taxonomic analysis of lichen flora of Logoisk district, Minsk region. *Proceedings of Belarusian State Pedagogical University, Series 3* 3: 191–194. [in Russian].
- Chernyshov, S.A. 2004a. Biodiversity and geographical analysis of lichen flora of Dzherzhinsk district, Minsk region. In: I.E. Buchenkov, I.I. Kirvel and V.E. Gamanovich (eds.). *Study, management, conservation of biological diversity and landscapes in Belarus: abstracts of scientific conference of students, post-graduate students and employees of Faculty of Natural Sciences of BSPU*. BSPU, Minsk, pp. 52–54. [in Russian].
- Chernyshov, S.A. 2004b. Biological diversity of lichens of Minsk district. In: E.L. Rudashevskaya (ed.). *Abstracts of the VIII Conference of Young Botanists in St.-Petersburg, 17–21 May 2004*. SPSUTD, Saint Petersburg, pp. 89–90. [in Russian].
- Chernyshov, S.A. 2004c. On the issue of lichens diversity in some districts of Minsk region. In: I.E. Buchenkov and A.V. Khandogii (eds.). *Anthropogenic dynamics of landscapes and problems of conservation and sustainable use of biological diversity: Abstracts*. BSPU, Minsk, p. 91. [in Russian].
- Czarnota, P. 2007. The lichen genus *Micarea* (Lecanorales, Ascomycota) in Poland. *Polish Botanical Studies* 23: 1–199.
- Czyżewska, K. and M. Kukwa. 2005. Notes on two species of *Lepraria* from Belarus. *Graphis Scripta* 17: 20–21.
- Danilchuk, S.D., V.G. Gatikh, A.S. Palamarchuk, V.G. Gerasimov, N.K. Bobkov and G.L. Palamarchuk. 1976. The reserve on Pripyat. *Uradszhai, Minsk*. 96 pp. [in Russian].
- Darafeeu, M. (ed.) 1993. Red data book of the Republic of Belarus: Rare and endangered species of animals and plants. Minsk, Belaruskaja Entsiklapedzija, 560 pp. [in Belarusian].
- Dementiev, V.A., A.H. Skliar, O.F. Yakushko and N.T. Romanovsky. 1977. *Geography of Belarus*. Minsk, Vysheishaja shkola, 320 pp. [in Russian].
- Dobysch, K.V. and E.E. Gaevskii. 2016. Environmental assessment of air pollution in Minsk using lichen indication. In: S.I. Rubtsova and N.V. Lyamina (eds.). *Eco-biological problems of the Azov-Black Sea region and integrated coastal management: Abstracts of 3rd scientific youth conference*. INTS, Sevastopol, pp. 75–79. [in Russian].
- Downar, N. 1861. *Enumeratio plantarum circa Mohileviam ad Borysthenem collectarum, tam sponte crescentium quam solo assuefactarum, spatium X millia passuum*. *Bulletin of Moscow Society of Naturalists* 1: 1–28.
- Downar, N. 1862. *Enumeratio plantarum circa Mohileviam ad Borysthenem, nec non in ipso gubernio passim, collectarum anno 1861*. *Bulletin of Moscow Society of Naturalists* 2: 1–9.
- Dyukova, T.A. 2008. Study of the air basin quality in the city of Minsk based on a lichen diversity assessment. In: A.M. Dorofeev (ed.). *Biological diversity in the Belarusian Lakeland: current state, problems of use and protection: abstracts of the International scientific conference*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 100–102. [in Russian].
- Edwards, B., A. Aptroot, D.L. Hawksworth & P.W. James. 2009. *Lecanora* Ach. in Luyken (1809). In: C.W. Smith, A. Aptroot, B.J. Coppins, A. Fletcher, O.L. Gilbert, P.W. James and P.A. Wolseley (eds.). *The Lichen Flora of Great Britain and Ireland*. British Lichen Society, London, pp. 465–502.
- Ekman, S. 2004. *Mycobilimbia*. In: T.H. Nash III, B.D. Ryan, P. Diederich, C. Gries and F. Bungartz, (eds.). *Lichen Flora of the Greater Sonoran Desert Region. Vol. 2*. Arizona State University, Tempe, pp. 365–367.
- Ekman, S. 2014. The *Bacidia coprodes* group (Ramalinaceae, Lecanoromycetes, Ascomycota), with special reference to the species in Europe and North America. *Phytotaxa* 191: 66–80.

- Ertz, D. and P. Diederich. 2015. Dismantling Melaspileaceae: a first phylogenetic study of *Buelliella*, *Hemigrapha*, *Karschia*, *Labrocarpon* and *Melaspilea*. *Fungal Diversity* 71: 141–164.
- Esslinger, T.L. 2002. *Physconia*. In: T.H. Nash III, B.D. Ryan, C. Gries and F. Bungartz (eds.). *Lichen Flora of the Greater Sonoran Desert Region. Vol. 1*. Arizona State University, Tempe, pp. 373–383.
- Esslinger, T.L. 2016. A cumulative checklist for the lichen-forming, lichenicolous and allied fungi of the Continental United States and Canada, version 21. *Opuscula Philolichenum* 15: 136–390.
- Filipowicz, K. 1881. Spis mchów, wątrobowców i porostów z niektórych stanowisk Królestwa Polkiego, a mianowicie z doliny Ojcowskiej i Bentkowskiej, okolic Warszawy, Łukowa, Puław i Brześcia Litewskiego zebranych i oznaczonych w latach 1877 i 1879. *Pamiętnik Fizyograficzny* 1: 258–267.
- Fletcher, A. and J.R. Laundon. 2009. *Caloplaca* Th. Fr. (1860). In: C.W. Smith, A. Aptroot, B.J. Coppins, A. Fletcher, O.L. Gilbert, P.W. James and P.A. Wolseley (eds.). *The Lichen Flora of Great Britain and Ireland*. British Lichen Society, London, pp. 245–273.
- Fryday, A.M., C. Printzen and S. Ekman. 2014. *Bryobilimbia*, a new generic name for *Lecidea hypnorum* and closely related species. *The Lichenologist* 46(1): 25–37
- Gapienko, O.S., D.B. Belomesyatseva, A.P. Yatsyna, T.G. Shabashova, N.A. Arkhipenko, N.N. Nasonova, S.I. Koriniak, S.P. Zhdanovich, S.S. Kolos and Y.A. Shaporova. 2014. Biological diversity of the Braslav Lakes National Park: fungi and lichens. Belarusian Publishing House, Minsk, 200 pp. [in Russian].
- Ges, D.K. 1960. To the lichen studies in Polesie. *Proceedings of the Academy of Sciences of the BSSR Series of Biological Sciences* 4: 54–59. [in Belarusian].
- Ges, D.K. 1961. The first record of a rare form of *Cetraria* in Belarus. *Collection of botanical papers* 3: 167–168. [in Russian].
- Gilbert, J.E. 1781. *Flora lithuanica inchoata, seu Enumeratio plantarum Quas Circa Grodnam coll'egit et determinavit Joannes Emmanuel Gilbert*. Typis S.R.M., Grodnae. 308 pages.
- Gilbert, J.E. 1792. *Exercitia phytologica, quibus omnes plantae Europae, quas vivas invenit in variis herbationibus, seu in Lithuania, Gallia, Alpibus, analysi nova proponuntur. Lugduni Gallorum: Ex Typis J.B. Delamolliere*. 655 pp.
- Golubkov, V.V. 1985. New and rare species for the lichen flora of Belovezhskaya Pushcha. In: A.N. Vitchenko (ed.). *Actual problems of conservation, rational use and reproduction of natural resources (abstracts)*. Belarusian State University, Minsk, p. 99. [in Russian].
- Golubkov, V.V. 1986. Eco-geographical characteristic of some rare and relic lichen species growing within protected natural areas of Belarusian SSR. *Botany Research* 27: 139–141. [in Russian].
- Golubkov, V.V. 1987. Species composition and structure of lichen flora of the State hunting reserve “Belovezhskaya Pushcha”. Part 1. Species composition of lichen flora of the Belovezhskaya Pushcha (an annotated list). *Dep. VINITI, No 2829–B87*. 97 pp. [in Russian].
- Golubkov, V.V. 1991. Lichen flora of the vicinity of Lake Drūkšiai (Drysviaty) (Chapter 9). In: A. Lekavičius (ed.). *State of terrestrial phytocoenosis in the zone of the Ignalina NPP in the pre-launch period (Series “Thermal Engineering and the Environment”, Volume 9)*. Mokslas, Vilnius, pp. 188–200. [in Russian].
- Golubkov, V.V. 1992. Lichens of protected natural territories of Belarus (floristic and ecogeographical characteristic). PhD thesis, Minsk, 503 pp. [in Russian].
- Golubkov, V.V. 1993. New and rare lichen species for the territory of Belarus. In: V. Urbonas, A. Lugauskas, J. Motiejūnaitė and M. Strukčinskas (eds.). *Fungi and lichens in the Baltic region: Abstracts of the 12th International conference on mycology and lichenology*. Vilnius University, Vilnius, pp. 137–138.
- Golubkov, V.V. 1996. Influence of anthropogenic transformation of landscapes on lichen distribution and diversity in the Belarusian Lakeland. In: A.M. Dorofeev (ed.). *Biological conservation in Belarusian Lakeland: Abstracts of regional conference*. Vitebsk State University, Vitebsk, pp. 81–82. [in Russian].
- Golubkov, V.V. 1997. Lichens as components of landscapes and geological structures of some projected and existing natural monuments in Belarus. In: A.R. Aleksandrovich (ed.). *Actual problems of natural sciences: Abstracts of the Jubilee Scientific Conference devoted to the 25th anniversary of the Department of Natural Sciences*. M. Tank Belarusian State Pedagogical University, Minsk, pp. 63–65. [in Russian].
- Golubkov, V.V. 1998. Lichens and forest monitoring. In: A.V. Pugachevskii and A.A. Molozhanskii (eds.). *State and monitoring of forests at the beginning of the XXI century: Abstracts of the International conference*. V.F. Kuprevich Institute of Experimental Botany, Minsk, pp. 78–80. [in Russian].
- Golubkov, V.V. 2000. Lichens of orchards in Belarus and bioecological assessment of their "harmfulness". In: M.A. Bondartseva (ed.). *Mycology and cryptogamic botany in Russia: traditions and modern state: Abstracts of international conference dedicated to the 100th anniversary of the research on mycology and cryptogamic botany in the V.L. Komarov Botanical Institute RAS*. SPCPA Press, Saint Petersburg, pp. 316–318. [in Russian].
- Golubkov, V.V. 2002. Zoological analysis of the lichen biota of the Dnieper basin (Belarus). In: V.Ya. Kuzmenko (ed.). *The Red Data Book of the Republic of Belarus: state, problems, prospects: Abstract of the scientific conference*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 69–71. [in Russian].

- Golubkov, V.V. 2006. Ecology and geography of some lichens of the genus *Collema* Wigg. in Belarus. In: *Principles and ways of biodiversity conservation: Abstracts of international conference*. Mari State University, Yoshkar-Ola, p. 400. [in Russian].
- Golubkov, V.V. 2007. The list of lichenized fungi of the Mozyr ridge. In: V.V. Valetov (ed.). *Modern ecological problems of sustainable development of Polesie region and adjacent territories: science, education, culture: Abstracts of III International scientific conference. Part 1*. I.P. Shamyakin Mozyr State Pedagogical University, Mozyr, pp. 69–73. [in Russian].
- Golubkov, V.V. 2008. Some features of lichen biota of the city of Grodno and its surroundings (Republic of Belarus). In: T.N. Pystina (ed.). *Field Meeting "Lichens of Boreal Forests" and the Fourth Russian Lichenological Workshop: Proceedings*. Syktyvkar, pp. 23–32. [in Russian].
- Golubkov, V.V. 2009a. New data on rare and little-known lichens of Belarus and their protection. In: L.G. Perevedentseva, T.L. Egozhina and V.G. Storozhenko (eds.). *Fungal studies in biogeocenoses: Abstracts of V International conference*. Perm State Pedagogical University, Perm, pp. 279–281. [in Russian].
- Golubkov, V.V. 2009b. Ecological and geographical characteristics of the species of the genus *Thelocarpon* (Ascomycota, Thelocarpaceae) on the territory of Belarus. In: V.V. Valetov (ed.). *Modern ecological problems of sustainable development of the Polesie region and adjacent territories: science, education, culture: Abstracts of IV International scientific conference*. I.P. Shamyakin Mozyr State Pedagogical University, Mozyr, pp. 33–35. [in Russian].
- Golubkov, V.V. 2010. A short preliminary report on the lichen biota study in the Pripyatsky National park in 2009–2010. In: V.S. Ivkovich (ed.). *Wildness protection in the Republic of Belarus: results and prospects: Abstracts of the International scientific conference*. Belarusian Publishing House, Minsk, pp. 150–152. [in Russian].
- Golubkov, V.V. 2011. Lichen biota of Pripyatsky National park. Belarusian Publishing House, Minsk, 192 pp. [in Russian].
- Golubkov, V.V. 2013a. New, rare and little-known lichen taxa found on the territory of Belarus (short report). In: I.B. Zavidnik (ed.). *Actual problems of ecology: Abstracts of the IX International scientific conference. Part 1*. Ya. Kupala Grodno State University, Grodno, pp. 22–24. [in Russian].
- Golubkov, V.V. 2013b. New findings of rare and “red-listed” lichens in Belarus. In: V.V. Lysak (ed.). *Modern problems in botanical and mycological research: Abstracts of II International scientific conference*. Belarusian State University, Minsk, pp. 188–190. [in Russian].
- Golubkov, V.V. 2014a. Lichens found on the territory of the Kotra Wildlife Refuge in 1999. In: V.V. Valetov (ed.). *Modern ecological problems of sustainable development of Polesie region and adjacent territories: science, education, culture: Abstracts of International scientific conference*. I.P. Shamyakin Mozyr State Pedagogical University, Mozyr, pp. 70–72. [in Russian].
- Golubkov, V.V. 2014b. Ecological and geographical features of lichens of Belarus. In: M.P. Andreev, D.E. Himelbrant, E.S. Kuznetsova and I.S. Stepanchikova (eds.). *Lichenology in Russia: problems and perspectives: Programme and proceedings of the second international conference*. Komarov Botanical Institute RAS, Saint Petersburg, pp. 80–84. [in Russian].
- Golubkov, V.V. 2014c. Zoological analysis, study and conservation of lichen biota in specially protected natural areas of Belarus. In: A.V. Pugachevsky (ed.). *Current state, development trends, rational use and conservation of the biological diversity of the plant world: Abstracts of the International scientific conference*. Ecoperspective, Minsk, pp. 309–313. [in Russian].
- Golubkov, V.V. 2014d. Lichens in the Red Data Book of Belarus: state, problems and prospects. In: M.P. Andreev, D.E. Himelbrant, E.S. Kuznetsova and I.S. Stepanchikova (eds.). *Lichenology in Russia: problems and perspectives: the second International conference*. V.L. Komarov Botanical Institute RAS, Saint Petersburg, pp. 75–80. [in Russian].
- Golubkov, V.V. and E.E. Bludov. 2005. The Sixth Fort of the Grodno Fortress as one of the perspective and recommended nature protection objects in the Grodno region. In: A.M. Dorofeev (ed.). *Protected natural territories and objects in the Belarusian Lakeland: current state, development prospects: Abstracts of the II International scientific conference*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 60–61. [in Russian].
- Golubkov, V.V. and L.V. Gagarina. 2010. *Gyalecta derivata* and *Coenogonium pinetii* in Belarus. *Novitates Systematicae Plantarum non Vascularium* 44: 144–152. [in Russian].
- Golubkov, V.V. and A.A. Khartanovich. 2004a. Lichens of tree plantations in the arboretum of Grodno Agricultural University. In: L.A. Zhukova (ed.). *Principles and ways of biodiversity conservation: Collection of materials of the All-Russian scientific conference*. Mari State University, Yoshkar-Ola, pp. 78–79. [in Russian].
- Golubkov, V.V. and A.A. Khartanovich. 2004b. Lichens of tree plantations in the Gilibert park (Grodno). In: E.O. Yurchenko and O.S. Gapienko (eds.). *Biology, systematics and ecology of fungi in natural and agricultural ecosystems: Abstracts of the International scientific conference*. Pravo i ekonomika, Minsk, pp. 62–68. [in Russian].
- Golubkov, V.V. and A.A. Khartanovich. A.A. 2005. Lichens of tree plantations near the Kolozhskaya church and the palace of youth creativity in Grodno. In: N.P. Kanunnikova (ed.). *Actual problems of ecology: Abstracts of the I International scientific conference. Part 1*. Ya. Kupala Grodno State University, Grodno, pp. 192–196. [in Russian].

- Golubkov, V.V. and N.N. Kobzar. 1996. Lichens. In: D.D. Stavrovsky and A.A. Kovalev (eds.). *Berezinsky Biosphere Reserve*. Belarusian Encyclopedia, Minsk, pp. 121–125. [in Russian].
- Golubkov, V.V. and N.N. Kobzar. 2005. Lichens. In: L.I. Khoruzhik (ed.). *Red data book of the Republic of Belarus: Rare and endangered species of wild plants*. BelEn, Minsk, pp. 355–383, 434–437, 451–452. [in Russian].
- Golubkov, V.V. and N.N. Kobzar. 2007. The first annotated list of lichen-forming and lichenicolous fungi of the Berezinsky Biosphere Reserve. Specially Protected Natural Territories of Belarus 2: 11–34. [in Russian].
- Golubkov, V.V. and O.M. Kochan. 2007. Ecology and distribution of lichen genus *Peltigera* collected in the western part of the Southwestern branch of the Belarusian Ridge. In: N.P. Kanunnikova (ed.). *Actual problems of ecology: Abstracts of the III International scientific conference*. Ya. Kupala Grodno State University, Grodno, p. 119. [in Russian].
- Golubkov, V.V. and M. Kukwa. 2006. A contribution to the lichen biota of Belarus. *Acta Mycologica* 42(1): 155–164.
- Golubkov, V.V. and A. Matwiejuk. 2009. Some new records of *Rhizocarpon* from North-Eastern Poland and North-Western Belarus. *Acta Mycologica* 44(2): 201–210.
- Golubkov, V.V. and A. Matwiejuk. 2010. The non-yellow species of *Rhizocarpon* (Rhizocarpaceae, lichenized Ascomycota) from Belarus, with hyaline and muriform ascospores. *Botany Research* 39: 15–24.
- Golubkov, V.V. and G.F. Rykovsky. 1988. Botanical rationale for the protection of the “Byki” boulder. *Botany Research* 29: 152–153. [in Russian].
- Golubkov, V.V. and A.S. Shukanov. 1983. Lichens of “Golubye Ozera” State landscape sanctuary. *Botany Research* 25: 56–67. [in Russian].
- Golubkov, V.V. and A.N. Titov. 1990. Calicioid lichens of Belarus. *Novitates Systematicae Plantarum non Vascularium* 27: 97–101. [in Russian].
- Golubkov, V.V. and G.V. Vynaev. 1981. Lichen floristic justification for the protection of natural complexes in some of the existing and projecting landscape reserves in Belarus. Dep. VINITI, No 2528–81. 15 pp. [in Russian].
- Golubkov, V.V. and A.P. Yatsyna. 2010. *Lobaria pulmonaria* (L.) Hoffm. – rare endangered lichen in Belarus. *Botany Research* 38: 84–101. [in Russian].
- Golubkov, V.V. and S.M. Yesis. 1997a. Preliminary data on lichens of the Minsk Upland. In: A.R. Aleksandrovich (ed.). *Actual problems of natural sciences: Abstracts of the Jubilee Scientific Conference devoted to the 25th anniversary of the Department of Natural Sciences*. M. Tank Belarusian State Pedagogical University, Minsk, pp. 66–73. [in Russian].
- Golubkov, V.V. and S.M. Yesis. 1997b. New data on studying lichens of the Minsk Upland. In: O.R. Aleksandrovich (ed.). *Green schools in green lungs of Europe: Abstracts of International scientific conference*. M. Tank Belarusian State Pedagogical University, Minsk, pp. 19–21. [in Russian].
- Golubkov, V.V. and A.A. Zavarzin. 2010. Review and revision of lichens of Belarus: genus *Peltigera* Willd. *Botany Research* 38: 15–27. [in Russian].
- Golubkov, V.V., V.V. Valetov and P.N. Bely. 2007a. Biodiversity and habitat features of lichenized fungi of the “Mozyr ravines” landscape reserve and its environs. In: V.V. Valetov (ed.). *Modern ecological problems of sustainable development of Polesie region and adjacent territories: science, education, culture: Abstracts of III International scientific conference. Part 1*. I.P. Shamyakin Mozyr State Pedagogical University, Mozyr, pp. 73–76. [in Russian].
- Golubkov, V.V., O.V. Belaya and M.V. Kozlovskaya. 2007b. Lichenobiotic analysis of Parmelioid lichens of Belarus. In: A.N. Kusenkov (ed.). *Current state of flora and fauna in the countries of the “Dnieper” Euroregion, their protection and rational use: Abstracts of International scientific conference*. F. Skorina Gomel State University, Gomel, pp. 66–71. [in Russian].
- Golubkov, V.V., P.N. Bely, A. Tsurykau and A.P. Yatsyna. 2012. Distribution of lichen *Cetraria islandica* (Parmeliaceae, Lichenized Ascomycota) in Belarus. In: I.B. Zavodnik (ed.). *Actual Problems of Ecology: Abstracts of the VIII International scientific conference, Part 1*. Ya. Kupala Grodno State University, Grodno, pp. 24–25. [in Russian].
- Golubkov, V.V., P.N. Bely and A.P. Yatsyna. 2013. An annotated list of lichens, lichenicolous and related fungi of Narochansky National park. *Botany Research* 42: 99–129. [in Russian].
- Golubkova, N.S. 1996. Genus *Usnea* Dill. ex Adans. In: N.S. Golubkova (ed.). *Handbook of the lichens of Russia 6. Alectoriaceae, Parmeliaceae (Bryocaulon, Cetraria pr.p., Cornicularia, Dactylina, Evernia, Everniastrum, Letharia, Lethariella, Neuropogon, Pseudephebe, Pseudevernia, Usnea), Stereocaulaceae*. Nauka, Saint-Petersburg, pp. 62–107. [in Russian].
- Gorbach, N.V. 1955. To the question of the involvement of lichens-epiphytes in forest coenoses. *Proceedings of the Academy of Sciences of the BSSR* 3: 119–125. [in Russian].
- Gorbach, N.V. 1956. Epiphytic lichens of the BSSR. In: N. V. Turbin (ed.). *Abstracts of research works of the Institute of Biology for 1955*. Publishing house of the Academy of Sciences of the BSSR, Minsk, pp. 19–23. [in Russian].
- Gorbach, N.V. 1957. Materials to lichen flora of Belarus (lichens of Belovezhskaya Pushcha). *Bulletin of the Institute of Biology* 2: 43–46. [in Russian].
- Gorbach, N.V. 1961. Materials to lichen flora of Belarus. *Collection of botanical papers* 3: 174–177. [in Russian].

- Gorbach, N.V. 1962. To the studies of lichen communities on trunks and branches of main forest-forming species. *Proceedings of the Academy of Sciences of the BSSR Series of Biological Sciences* 1: 100–106. [in Belarusian].
- Gorbach, N.V. 1963. Lichen genus *Ramalina* Ach. in Belarus. *Proceedings of the Academy of Sciences of the BSSR Series of Biological Sciences* 3: 102–104. [in Russian].
- Gorbach, N.V. 1965a. Lichen genus *Alectoria* Ach. in Belarus. *Proceedings of the Academy of Sciences of the BSSR Series of Biological Sciences* 1: 55–58. [in Belarusian].
- Gorbach, N.V. 1965b. Lichen settlement on aspen trunks and branches in *Corylus-Oxalis* type of aspen forest. In: I.D. Yurkevich, N.D. Nesterovich, I.N. Rakhtenko, L.P. Smoliak, V.A. Mikhailovskaja and B.I. Yakushev (eds.). *Ecology of woody plants*. Nauka i tekhnika, Minsk, pp. 115–120. [in Russian].
- Gorbach, N.V. 1965c. On the issue of indicator role of lichens in forest communities. In: E. Parmasto (ed.). *Problems in studying fungi and lichens: IV Symposium of Baltic Mycologists and Lichenologists: conference on methods of studying fungi and lichens in forest biocoenoses*. Academy of Sciences of Estonian SSR, Tartu, pp. 177–181. [in Russian].
- Gorbach, N.V. 1965d. Handbook of foliose and fruticose lichens of the BSSR. Nauka i tekhnika, Minsk, 181 pp. [in Russian].
- Gorbach, N.V. 1970. New lichens to Belarus. In: L.P. Smolyak (ed.). *Floristic and geobotanical research in Belarus*. Nauka i tekhnika, Minsk, pp. 22–24. [in Russian].
- Gorbach, N.V. 1973a. Plant microassociations in lichen type pine forests in south of Belarus. In: I.D. Yurkevich (ed.). *Abstracts of III Delegate meeting of Belarusian Republican Botanical Society. Belovezhskaja Pushcha, September 1973*. Belarusian Republican Botanical Society, Minsk, pp. 96–98. [in Russian].
- Gorbach, N.V. 1973b. Lichens of Belarus. A handbook. Nauka i tekhnika, Minsk, 340 pp. [in Russian].
- Gorbach, N.V. 1978. Influence of emissions of chemical industry plants on epiphytic lichen flora. In: T. Piin (ed.). *Abstracts of the all-Union conference "Lichen indication of environment state" Oct. 3–5, 1978*. Academy of Sciences of the Estonian SSR, Tallinn, pp. 44–48. [in Russian].
- Gorbach, N.V. 1981. Lichens of montane geographical element in lichen flora of Belarus. In: R.N. Shlyakov (ed.). *Bryo- and lichenological research in high mountain areas and North of the USSR*. Kola Branch of the Academy of Sciences of the USSR, Apatity, pp. 86–87. [in Russian].
- Gorbach, N.V. and N.V. Getko. 1978. Content of sulfate ions in lichens as indicator of atmospheric air pollution by sulfur compounds. In: T. Piin (ed.). *Abstracts of the all-Union conference "Lichen indication of environment state" Oct. 3–5, 1978*. Academy of Sciences of the Estonian SSR, Tallinn, pp. 82–85. [in Russian].
- Gorbach, N.V. and A.I. Mashenkova. 1967. Lichens of the Upper Berezina forests. In: I.D. Yurkevich (ed.). *Dendrology and Forestry*. Nauka i tekhnika, Minsk, pp. 163–168. [in Russian].
- Gorbach, N.V. and A.I. Osmolovskaya. 1965. New and rare lichens of Belarus. *Botany Research* 7: 178–180. [in Russian].
- Gorbach, N.V., E.V. Khodasevich, L.M. Melnikova and N.N. Kobzar. 1982. Change in the quantitative characteristics of chlorophyll content in lichens under the influence of SO₂ atmospheric air pollution. *Reports of the Academy of Sciences of the BSSR* 26(9): 850–852. [in Russian].
- Hawksworth, D.L., O. Blanco, P.K. Divakar, T. Ahti and A. Crespo. 2008. A first checklist of parmelioid and similar lichens in Europe and some adjacent territories, adopting revised generic circumscriptions and with indications of species distributions. *The Lichenologist* 40(1): 1–21.
- Hertel, H., T.H. Nash III and B.D. Ryan. 2007. *Catillaria*. In: T.H. Nash III, B.D. Ryan, C. Gries and F. Bungartz (eds.). *Lichen Flora of the Greater Sonoran Desert Region. Vol. 3*. Arizona State University, Tempe, pp. 220–226.
- Inсарov, G.E. and A.V. Pchelkin. 1982. Quantitative characteristics of epiphytic lichen flora in biosphere reserves. Berezinsky reserve. RIHMI-WDC, Obninsk. 58 pp. [in Russian].
- Jundzill, J. 1830. *Opisanie roślin w Litwie, na Wołyniu, Podolu i Ukrainie dziko rosnących, iako i oswoionych: podług wydania szesnastego układu roślin Linneusza*. Józef Zawadzki, Wilno, 583 pp.
- Kiselev, V.N., K.D. Chubanov, A.V. Boiko and N.I. Pikulik. 1983. Analysis of technogenic contamination by sulfur compounds in green zone of Minsk by content of sulfate ions in lichen *Hypogymnia physodes*. *Reports of the Academy of Sciences of the BSSR* 27(12): 1109–1111. [in Russian].
- Kiselev, V.N., K.D. Chubanov, A.V. Boiko, V.K. Lukashev, T.N. Surovaya, A.V. Bortnik and N.I. Pikulik. 1986. Lichen indication of air pollution in green zones of industrial centers in Belarus. *Ekologiya (Sverdlovsk)* 2: 30–35. [in Russian].
- Knudsen, K. and J. Kocourková. 2017. What is *Acarospora nitrophila* (Acarosporaceae)? *Bryologist* 120(2): 124–128.
- Kobzar, N.N. 1983. Lichens. In: V.S. Geltman and M.S. Dolbik (eds.). *Berezinsky Biosphere Reserve of Belarusian SSR*. Uradzhai, Minsk, pp. 76–79. [in Russian].
- Kobzar, N.N. 1985. Geographical analysis of the lichen flora of the Berezinsky State Biosphere Reserve. In: E. Vimba (ed.). *Fungi and lichens in ecosystem: Abstracts of the X scientific symposium of mycologists and lichenologists of the Baltic States and Belarus*. P. Stuchka Latvian State University, Riga, pp. 72–74. [in Russian].
- Kobzar, N.N. 1997. Epiphytic lichen flora and the state of substrate under technogenic press of large cities. In: V.I. Parfenov (ed.). *Problems of experimental botany. Belaruskaja navuka*, Minsk, pp. 54–59. [in Russian].

- Kobzar, N.N. 1998. The role of lichens in the composition of the dunes soil cover in Belarusian Polesie. *In: Modern problems of studying, using and protecting the natural complexes in Polesie*. Belsens, Minsk, p. 196. [in Russian].
- Kobzar, N.N. 2006. Lichenized fungi. *In: V.I. Parfenov and O.S. Gapienko (eds.). Macromycetes, micromycetes and lichenized fungi of Belarus from the Herbarium of V.F. Kuprevich Institute of Experimental Botany (MSK-F, MSK-L)*. IVTs Minfina, Minsk, pp. 459–500. [in Russian].
- Kondratyuk, S.Ya. 2004. Genus *Xanthoria* (Fr.) Th. Fr. *In: N.S. Golubkova (ed.). Handbook of the lichens of Russia 9. Fuscideaceae, Teloschistaceae*. Nauka, Saint-Petersburg, pp. 302–323. [in Russian].
- Kondratyuk, S.Ya., A.Ye. Khodosovtsev. and A.N. Oksner. 2004. Genus *Caloplaca* Th. Fr. nom. cons. *In: N.S. Golubkova (ed.). Handbook of the lichens of Russia 9. Fuscideaceae, Teloschistaceae*. Nauka, Saint-Petersburg, pp. 38–235. [in Russian].
- Kondratyuk S., A.P. Yatsyna, L. Lököš, I. Galanina, M. Haji Moniri and J.-S. Hur. 2013. Three new *Xanthoria* and *Rusavskia* species (Teloschistaceae, Ascomycota) from Europe. *Acta Botanica Hungarica* 55(3–4): 351–365.
- Kopachevskaja, E.G. 1977. Fam. Verrucariaceae. *In: I.I. Abramov (ed.). Handbook of the lichens of the USSR. 4. Verrucariaceae – Pilocarpaceae*. Nauka, Leningrad, pp. 7–54. [in Russian].
- Kotlov, Y.V. 2008. Genus *Rinodina* (Ach.) Gray. *In: N.S. Golubkova (ed.). Handbook of the lichens of Russia. 10. Agyriaceae, Anamylopsoraceae, Aphanopsidaceae, Arthrurhaphidaceae, Brigantiaeaceae, Chrysotrichaceae, Clavariaceae, Ectolechiaceae, Gompillaceae, Gypsoplacaceae, Lecanoraceae, Lecideaceae, Mycoblastaceae, Phlyctidaceae, Physciaceae, Pilocarpaceae, Psoraceae, Ramalinaceae, Stereocaulaceae, Vezdaeaceae, Tricholomataceae*. Nauka, Saint Petersburg, pp. 309–359. [in Russian].
- Kravchuk, L.A. 2000. Lichen indication of atmospheric air pollution in the city of Svetlogorsk. *Nature management* 6: 98–102. [in Russian].
- Kravchuk, L.A. 2001. Lichen indication of atmospheric air pollution in Belarusian cities. PhD thesis, Minsk, 230 pp. [in Russian].
- Kravchuk, L.A. and S.V. Kakareka. 1995. Lichen indication mapping of the city of Minsk. *Proceedings of the Academy of Sciences of Belarus Series of Biological Sciences* 2: 23–28. [in Belarusian].
- Kravchuk, L.A. and S.V. Kakareka. 1998. Lichen indication of air pollution in the city of Mogilev. *Natural resources* 4: 98–103. [in Russian].
- Krawiec, F. 1938. Materiały do flory porostów północno-wschodniej Polski. *Sprawozdanie Komisji Fizjograficznej PAU* 71: 65–82.
- Kreyer, G.K. 1913. Contribution to lichen flora of Mogilev province. *Collections of 1908–1910. Acta Horti Petropolitani* 31(2): 263–440. [in Russian].
- Kreyer, G.K. 1914. About new lichen *Ramalina baltica* Lettau. *Bulletin du Jardin impérial botanique de Pierre le Grand* 14(3): 277–296. [in Russian].
- Kukwa, M. 2011. The lichen genus *Ochrolechia* in Europe. *Fundacja Rozwoju Uniwersytetu Gdańskiego*, Gdańsk, 309 pp.
- Kuprevich, V.F. 1931. Fungi of Smolevichi district (Minsk region). *Materials of studying flora and fauna of Belarus* 6: 3–24. [in Russian].
- Lapitskaya, S.K., V.G. Sviridenko, A.S. Palamarchuk, S.P. Zakrinichnaya and O.P. Shakhrai. 1979. Content of microelements in lichens of the Pripyatsky Reserve (BSSR). *Plant resources* 15(4): 584–587. [in Russian].
- Lebedeva, L.A. 1925. The first list of fungi and myxomycetes of Belarus. *Mémoires de l'institut agronomique et forestier d'état de la Belgique* 4: 35–40. [in Russian].
- Lisická, E. 2005. The Lichens of the Tatry Mountains. *VEDA the Publishing House of the Slovak Academy of Sciences*, Bratislava, 439 pp.
- Ljubitzkaja, L.I. 1914. To lichen flora of Polesie. *Travaux de la Société impériale des naturalistes de Petrograd* 44–45: 185–195. [in Russian].
- Loginov, V.F. 1996. *Climate of Belarus*. Institute of geological sciences of NASB, Minsk, 235 pp. [in Russian].
- Makarevicz, M.F. 1960. To lichen flora of “Belovezhskaja Puscha” reserve. *Notulae systematicae e sectione cryptogamica instituti botanici nomine V.L. Komarovii academiae scientiarum URSS* 13: 25–29. [in Russian].
- Makarevicz, M.F. 1963. Analysis of lichen flora of the Ukrainian Carpathians. *AS of the URSR Publishing*, Kyiv, 262 pp. [in Russian].
- Makarevicz, M.F. 1971a. Fam. Pertusariaceae. *In: I.I. Abramov (ed.). Handbook of the lichens of the USSR. 1. Pertusariaceae, Lecanoraceae and Parmeliaceae*. Nauka, Leningrad, pp. 7–70. [in Russian].
- Makarevicz, M.F. 1971b. Genus *Lecanora*. *In: I.I. Abramov (ed.). Handbook of the lichens of the USSR. 1. Pertusariaceae, Lecanoraceae and Parmeliaceae*. Nauka, Leningrad, pp. 72–146. [in Russian].
- Makarevicz, M.F. 1971c. Genus *Ochrolechia*. *In: I.I. Abramov (ed.). Handbook of the lichens of the USSR. 1. Pertusariaceae, Lecanoraceae and Parmeliaceae*. Nauka, Leningrad, pp. 242–255. [in Russian].
- Makarevicz, M.F. 1977a. Fam. Arthoniaceae. *In: I.I. Abramov (ed.). Handbook of the lichens of the USSR. 4. Verrucariaceae – Pilocarpaceae*. Nauka, Leningrad, pp. 290–325. [in Russian].
- Makarevicz, M.F. 1977b. Fam. Graphidaceae. *In: I.I. Abramov (ed.). Handbook of the lichens of the USSR. 4. Verrucariaceae – Pilocarpaceae*. Nauka, Leningrad, pp. 215–274. [in Russian].

- Makarevicz, M.F. 1977c. Fam. Pilocarpaceae. In: I.I. Abramov (ed.). *Handbook of the lichens of the USSR. 4. Verrucariaceae – Pilocarpaceae*. Nauka, Leningrad, pp. 326–328. [in Russian].
- Makarevicz, M.F. 1977d. Fam. Pyrenulaceae. In: I.I. Abramov (ed.). *Handbook of the lichens of the USSR. 4. Verrucariaceae – Pilocarpaceae*. Nauka, Leningrad, pp. 197–212. [in Russian].
- Makarova, I.I. 2003. Fam. Trapeliaceae M. Choisy ex. Hertel. In: N.S. Golubkova (ed.). *Handbook of the lichens of Russia. 8. Bacidiaceae, Catillariaceae, Lecanoraceae, Megalariaceae, Mycobilimbiaceae, Rhizocarpaceae, Trapeliaceae*. Nauka, St-Petersburg, pp. 239–258. [in Russian].
- Matwiejuk, A. and V.V. Golubkov. 2012. Review and revision of lichens of Belarus: the genus *Rhizocarpon* Ram. ex DC. (Rhizocarpaceae, lichenized Ascomycota). *Botany Research* 41: 147–162.
- Mavrishev, V.V. and T.A. Dyukova. 2008a. Lichen identification of the air basin in Minsk. In: S.P. Kundas, S.B. Melnov and S.S. Pozniak (eds.). *Sakharov readings 2008: Environmental problems of the XXI Century: Abstracts of the 8th International conference*. ISEU, Minsk, pp. 148–149. [in Russian].
- Mavrishev, V.V. and T.A. Dyukova. 2008b. Lichen identification and ecological zoning of the city of Minsk in conditions of anthropogenic pollution. In: M.G. Yasoveev, I.E. Buchenkov and A.V. Khandogij (eds.). *Anthropogenic transformation of landscapes: Abstracts of the IV State scientific conference*. BSPU, Minsk, pp. 46–47. [in Russian].
- Medvedeva, I.V. Environmental protection in the Republic of Belarus: Statistic collection. Belstat, Minsk, 248 pp. [in Russian].
- Meier, A. 1901. Description of Krichevsky County 1786 year. In: E.R. Romanov (ed.). *Mogilev antiquity Collection of articles from «Mogilevsky Provincial Gazette». Issue. 2. 1900–1901*. Province Government Press, Mogilev, pp. 86–137. [in Russian].
- Myllys, L., S. Valmala and H. Holien. 2011. *Bryoria*. In: A. Thell and R. Moberg (eds.). *Nordic Lichen Flora, Volume 4: Parmeliaceae*. Zetterqvist tryckeri AB, Göteborg, pp. 26–37.
- Nimis, P.L. 2016. The Lichens of Italy. A Second Annotated Catalogue. EUT, Trieste, 739 pp.
- Novruzov, V.S. 1990. Florogenetical analysis of lichens of the Greater Caucasus and questions about their conservations (within Azerbaijan). Elm, Baku, 324 pp. [in Russian].
- Motiejūnaitė, J. and K. Czyżewska. 2008. Additions to the biota of lichens and lichenicolous fungi of Poland, with a note on *Lecania prasinooides* in eastern and central Europe. *Polish Botanical Journal* 53(2): 155–162.
- Motiejūnaitė, J. and V.V. Golubkov. 2005. Cyanolichens of freshwater aquatic and subaquatic habitats in Lithuania and Belarus. *Botanica Lithuanica* 11(1): 35–40.
- Motiejūnaitė, J. and P. Grochowski. 2014. Miscellaneous new records of lichens and lichenicolous fungi. *Herzogia* 27: 193–198.
- Nordin, A., R. Moberg, T. Tønsgberg, O. Vitikainen, Å. Dalsätt, M. Myrdal, D. Snitting and S. Ekman. 2011. Santesson's Checklist of Fennoscandian Lichen-forming and Lichenicolous Fungi. Ver. 29 April 2011. <http://130.238.83.220/santesson/home.php> [21.12.2017].
- Oksner, A.N. 1924. Materials to lichen flora of Belarus (Preliminary report). *Bulletin du Jardin Botanique de Kieff* 1: 27–36. [in Russian].
- Oksner, A.N. 1925. To lichen flora of Belarus. *Bulletin du Jardin Botanique de Kieff* 3: 33–34. [in Ukrainian].
- Oksner, A.M. 1956. Lichen flora of Ukraine. Vol. 1. Academy of Sciences of Ukrainian SSR Publishing House, Kyiv, 459 pp. [in Ukrainian].
- Oksner, A.M. 1968. Lichen flora of Ukraine. Vol. 2. Naukova dumka, Kyiv, 500 pp. [in Ukrainian].
- Padtsiarob, A.P. and P.N. Bely. 2015. Seasonal variations in the pigment composition of lichen *Xanthoria parietina* (L.) Th. Fr. (Teloschistaceae Zahlbr.) in urban environment. *Ecological Bulletin* 2(32): 83–88. [in Russian].
- Padtsiarob, A.P., S.A. Sergeichik and P.N. Bely. 2013. Research of structure of the pigmentary complex of the lichen *Xanthoria parietina* (L.) Th. Fr. (Teloschistaceae Zahlbr.) in the natural and technogenic environment. *Ecological Bulletin* 2(24): 17–25. [in Russian].
- Palamarchuk, A.S., I.V. Zharkov, V.G. Gerasimov, N.K. Bobkov, G.L. Palamarchuk, V.I. Sautin, T.P. Tratshevskaya and V.P. Khorokhonov. 1973. Belarusian Polesie. *Uradszhai*, Minsk. 120 pp. [in Russian].
- Palamarchuk, A.S., O.P. Shakhrai and L.N. Parukova. 1975. Lichens. *Agriculture of Belarus (Minsk)* 1: 43. [in Russian].
- Randlane, T. and A. Saag. 1992. Genus *Cetrelia* Culb. et Culb. in the USSR. *Novitates Systematicae Plantarum non Vascularium* 28: 118–134. [in Russian].
- Rassadina, K.A. 1971. Fam. Parmeliaceae. In: I.I. Abramov (ed.). *Handbook of the lichens of the USSR. 1. Pertusariaceae, Lecanoraceae and Parmeliaceae*. Nauka, Leningrad, pp. 282–386. [in Russian].
- Roms, E.G. 1975. Fam. Cypheliaceae. In: I.I. Abramov (ed.). *Handbook of the lichens of the USSR. 3. Caliciaceae – Gyalectaceae*. Nauka, Leningrad, pp. 37–41. [in Russian].
- Ryan, B.D., H.T. Lumbsch, M.I. Messuti, C. Printzen, L. Śliwa and T.H. Nash III. 2004. *Lecanora*. In: T.H. Nash III, B.D. Ryan, P. Diederich, C. Gries and F. Bungartz, (eds.). *Lichen Flora of the Greater Sonoran Desert Region. Vol. 2*. Arizona State University, Tempe, pp. 176–286.
- Savicz, V.P. 1909. Materials to flora of Polesye. List of lichens collected in Minsk Province in 1907. *Travaux des Sociétés scientifiques des étudiants de la faculté des sciences naturelles et mathématiques à l'Université de St. Pétersbourg* 1(1): 43–46. [in Russian].

- Savicz, V.P. 1910. Materials to flora of Polesye. List of lichens collected in Minsk Province in 1909 by L.I. Lyubitskaya. *Travaux des Sociétés scientifiques des étudiants de la faculté des sciences naturelles et mathématiques à l'Université de St. Pétersbourg* 2: 17–20. [in Russian].
- Savicz, V.P. 1911. Materials to flora of Polesye List of lichens collected in Minsk Province in 1910 by L. I. Lyubitskaya. *Travaux des Sociétés scientifiques des étudiants de la faculté des sciences naturelles et mathématiques à l'Université de St. Pétersbourg* 3: 57–66. [in Russian].
- Savicz, V.P. 1914. To the lichen studies in the Novgorod Province. *Bulletin du Jardin impérial botanique de Pierre le Grand (Supplement 1)* 14: 1–104. [in Russian].
- Savicz, V.P. 1925. The results of lichenological research in 1923 in Belarus. *Mémoires de l'institut agronomique et forestier d'état de la Bélarussie* 4: 1–33. [in Russian].
- Savicz, V.P. and L.I. Savicz. 1924. A short preliminary report on the study of the moss and lichen flora of Belarus in the summer of 1923. *Mémoires de l'institut agronomique d'état de la Bélarussie* 3: 57–72. [in Russian].
- Scherbakova, T.A. 1982. About the lichen role in forest biogeocoenoses. *In: L.S. Kozlovskaya and V.M. Medvedeva (eds.). Nature of marsh and forest systems of Karelia and ways of their development. Petrozavodsk, Karelian Branch of the Academy of Sciences of the USSR*, pp. 52–73. [in Russian].
- Serzhanina, G.I. 1984. *Cap mushrooms of Belarus: a handbook and a synopsis of flora. Nauka i tekhnika, Minsk*, 407 pp. [in Russian].
- Sidorovich, E.A. and V.V. Gorbach. 1998. Risk assessment of technogenic pollution by sulfur compounds of forest phytocenoses of Belovezhskaya Pushcha. *In: A.V. Pugachevskii and A.A. Molozhanskii (eds.). State and monitoring of forests at the beginning of XXI century: Abstracts of the International conference. V.F. Kuprevich Institute of Experimental Botany, Minsk*, pp. 171–172. [in Russian].
- Shamjakín, I.P. (ed.). 1984. *Encyclopedia of Nature of Belarus, Vol. 3. P. Brovka Belarusian Soviet Encyclopedia, Minsk*, 488 p. (in Belarusian).
- Sheard, J.V. 2004. *Rinodina*. *In: T.H. Nash III, B.D. Ryan, P. Diederich, C. Gries and F. Bungartz, (eds.). Lichen Flora of the Greater Sonoran Desert Region. Vol. 2. Arizona State University, Tempe*, pp. 467–502.
- Shukanov, A.S., G.F. Rykovsky, G.N. Antonov and O.M. Maslovsky. 1986. Indication of atmospheric air pollution in the city of Minsk by lichens and bryophytes. *Bulletin of BSU Series 2 Chemistry, Biology, Geography* 2: 36–41. [in Russian].
- Sobchanka, U.A., V.M. Khranchankova, A. Tsurykau, Yu.M. Bachura, V.N. Veremeev and M.H. Halinowski. 2012. Influence of chemical production on the species diversity of lichens, cryptogamic plants and invertebrates. *Proceedings of the F. Skorina Gomel State University* 5: 16–21. [in Russian].
- Šoun, J., J. Vondrák, U. Søchting, P. Hrouzek, A. Khodosovtsev and U. Arup. 2011. Taxonomy and phylogeny of the *Caloplaca cerina* group in Europe. *The Lichenologist* 43(2): 113–135
- Suza, J. 1928. Przyczynek do znajomości flory porostów Polski. *Acta Societatis Botanicorum Poloniae* 5: 213–219.
- Tessendorff, von F. 1922. Vegetationsskizze vom Oberlaufe der Schtschara (Gouv. Minsk und Grodno). *In: Bericht der Freien Vereinigung für Pflanzengeographie und systematische Botanik Für die Jahre 1920 und 1921. Im Selbstverlag der Vereinigung, Berlin-Dahlem*, pp 25–103.
- Tibell, L. 1999. Caliciales. *In: T. Ahti, P.M. Jørgensen, H. Kristinsson, R. Moberg, U. Søchting and G. Thor. Nordic Lichen Flora, Volume 1: Introductory parts. Calicioid lichens and fungi. Bohuslän '5, Uddevalla*, pp. 20–71.
- Timoshenkova, N.V. and A. Tsurykau. 2005. Ash content in lichen thalli from Gomel. *In: S.B. Kurash (ed.). Innovations – 2005: Abstracts of the XII Belarusian Student Scientific Conference. I.P. Shamyakin Mozyr State Pedagogical University, Mozyr*, p. 132. [in Russian].
- Titov, A.N. 2006. *Mycocalicioid fungi (the order Mycocaliciales) of Holarctic. KMK Scientific press, Moscow*, 296 pp. [in Russian].
- Tomin, M.P. 1937. *Handbook of foliose and fruticose lichens of the USSR. Academy of Sciences of the BSSR Press, Minsk*. 312 pp. [in Russian].
- Tomin, M.P. 1939. *Handbook of lichens of the BSSR and adjacent regions of the RSFSR and USSR. Part 2. Crustose lichens. Academy of Sciences of the BSSR Press, Minsk*. 168 pp. [in Russian].
- Tomin, M.P. 1956. *Handbook of crustose lichens of European part of the USSR (except the extreme North and the Crimea). Academy of Sciences of the BSSR Press, Minsk*. 534 pp. [in Russian].
- Tsetterman, N.O. 1948. Cladonias of the BSSR. *Scientific notes of BSU Biological Series* 7: 110–133. [in Russian].
- Tsurikova, N. 2013. Lichen herbarium GSU. III. Parmeliaceae Zenker (*Parmelia – Xanthoparmelia*). *Proceedings of the F. Skorina Gomel State University* 5: 184–190. [in Russian].
- Tsurykau, A. 2004. Epiphytic lichen communities in urban environment (on the example of Gomel). *In: D.G. Lin (ed.). Digest of students' scientific papers of F. Skorina Gomel State University "Creativity of young". F. Skorina Gomel State University, Gomel*, pp. 79–80. [in Russian].
- Tsurykau, A. 2005. Analysis of the lichen species composition in Gomel. *Proceedings of the F. Skorina Gomel State University* 6: 125–130. [in Russian].
- Tsurykau, A. 2010. Lichen monitoring in urban areas: justification for test-object choice. *Bulletin of the Belarusian National Academy of Sciences. Part. 4. Biology and Medicine. Supplement "Youth in Science – 2009"*: 272–275. [in Russian].

- Tsurykau, A. 2011. *Arthonia fuliginosa*, *Arthothelium ruanum*, *Cyphelium notarisii* and *Diploschistes muscorum*: new lichen species to Belarus. Bulletin of the I.P. Shamyakin Mozyr State Pedagogical University 1: 31–34. [in Russian].
- Tsurykau, A. 2012. *Opegrapha herbarum* – new lichen species to Belarus. In: N.M. Dajneko (ed.). *Young Researchers for Botanical Sciences 2012: Abstracts of the III International scientific conference*. F. Skorina Gomel State University, Gomel, pp. 72–74. [in Russian].
- Tsurykau, A. 2013a. Lichens of Southeastern Belarus: an experience in lichen monitoring. F. Skorina Gomel State University, Gomel, 276 pp. [in Russian].
- Tsurykau, A. 2013b. *Lecidea nylanderii* – new lichen species to Southeastern Belarus. In: L.V. Averyanov (ed.). *Proceedings of the XIII Congress of the Russian Botanical Society “Modern botany in Russia” and Conference “Scientific basis for the protection and sustainable use of plant cover of the Volga basin”, Part. 1*. Kassandra, Togliatti, pp. 221–222. [in Russian].
- Tsurykau, A. 2017a. New or otherwise interesting records of lichens and lichenicolous fungi from Belarus. III. With an updated checklist of lichenicolous fungi. *Herzogia* 30(1): 152–165.
- Tsurykau, A. 2017b. *Licea parasitica* (Myxomycetes) new to Belarus. *Botanica Lithuanica* 23(1): 63–64.
- Tsurykau, A. 2017c. Contribution to the knowledge of lichen-forming and lichenicolous fungi of Gomel region (Belarus). *Botanica Lithuanica* 23(2): 111–117.
- Tsurykau, A. and P. Czarnota. 2014. Three lichen species of *Micarea* (Pilocarpaceae) new to Belarus. *Acta Mycologica* 49(2): 249–253.
- Tsurykau, A. and V. Golubkov. 2015. The lichens of the *Cladonia pyxidata-chlorophaea* complex in Belarus. *Folia Cryptogamica Estonica* 52: 63–71.
- Tsurykau, A. and J. Etayo. 2017. *Capronia suijsae* (Herpotrichiellaceae, Eurotiomycetes), a new fungus on *Xanthoria parietina* from Belarus, with a key to the lichenicolous species growing on *Xanthoria* s. str. *The Lichenologist* 49(1): 1–12.
- Tsurykau, A. and V.M. Khranchankova. 2006. Structure of lichen flora of Gomel Polesie. In: O.N. Voronova (ed.). *Abstracts of the I (IX) International Conference of Young Botanists, Russia, Saint-Petersburg, May 2006*. SETU Publishing House, Saint-Petersburg, p. 326. [in Russian].
- Tsurykau, A. and V.M. Khranchankova. 2007. Analysis of lichen flora of Gomel region. *Proceedings of the F. Skorina Gomel State University* 6: 48–54. [in Russian].
- Tsurykau, A. and V.M. Khranchankova. 2008. Dependence of corticolous lichens occurrence on bark pH (on the example of Gomel). *Ecological Bulletin* 2: 144–151. [in Russian].
- Tsurykau, A. and V.M. Khranchankova. 2009a. Lichen species new to the city of Gomel. *Natural Resources* 1: 76–80. [in Russian].
- Tsurykau, A. and V.M. Khranchankova. 2009b. Additional information to lichen species from Gomel region. – In: N.M. Dajneko (ed.). *Young researchers to botanical science 2009: Abstracts of the II International scientific conference*. F. Skorina Gomel State University, Gomel, pp. 45–50. [in Russian].
- Tsurykau, A. and V.M. Khranchankova. 2010a. Lichens of Kostjukovka (Gomel district). *Bulletin of the I.P. Shamyakin Mozyr State Pedagogical University* 4: 17–21. [in Russian].
- Tsurykau, A. and V.M. Khranchankova. 2010b. Geographical analysis of lichens of Gomel Region. In: O.V. Lukash, (ed.). *Biodiversity of the border territories of Ukraine, Russia and Belarus in the Post-Chernobyl period: Abstracts of the International scientific conference*. Phytosociocentr, Kyiv, pp. 247–256. [in Russian].
- Tsurykau, A. and V.M. Khranchankova. 2011a. Lichens from Gomel region: a provisional checklist. *Botanica Lithuanica* 17(4): 157–163.
- Tsurykau, A. and V.M. Khranchankova. 2011b. Lichens of Gomel. *Science and Innovations* 6(100): 68–71. [in Russian].
- Tsurykau, A. and V.M. Khranchankova. 2013. *Cliostomum leprosum* (Ramalinaceae) – new lichen species to Gomel region. In: V.V. Lysak (ed.). *Modern Problems in Botanical and Mycological Research: Abstracts of the II International scientific conference*. BSU Publishing Centre, Minsk, pp. 118–119. [in Russian].
- Tsurykau, A. and V. Khranchankova. 2014. Distribution of *Hypogymnia physodes* in pine forests: a preliminary data from the south-eastern Belarus. *Programme and abstracts of XIX Symposium of the Baltic Mycologists and Lichenologists, Latvia, Šķēde, September 22 – 26, 2014*. Latvian Mycological Society, Šķēde, p. 24.
- Tsurykau, A. and V.M. Khranchankova. 2015. Lichens of pine forests in Gomel region: species composition and distribution. In: N.M. Dajneko (ed.). *Geobotanical studies of natural ecosystems: problems and solutions: Abstracts of scientific conference dedicated to 80th Anniversary of Belarusian geobotanist L.M. Sapegin*. F. Skorina Gomel State University, Gomel, pp. 159–163. [in Russian].
- Tsurykau, A. and S.Y. Kondratyuk. 2011. New to Belarus lichen species of the Teloschistaceae. *Science and Innovations* 6: 72. [in Russian].
- Tsurykau, A. and N. Tsurikova. 2017. Lichens of Chenki forest (Gomel district). *Proceedings of the P.M. Mashero Vitebsk State University* 1(94): 61–66. [in Russian].
- Tsurykau, A., V.M. Khranchankova and Yu.M. Jouchenka. 2007. Correlations of the ions concentrations and the projective cover of lichen *Xanthoria parietina* (L.) Th. Fr. *Proceedings of the F. Skorina Gomel State University* 1: 58–61. [in Russian].

- Tsurykau, A., V.V. Golubkov and V.M. Khranchankova. 2009. Lichen specimens from Pripyatsky National Park in the Herbarium of Gomel State University (GSU). In: V.I. Parfenov (ed.). Natural resources of Pripyatsky National Park and other protected areas in Belarus: research, conservation, sustainable use: Abstracts of the scientific conference. Belarusian Publishing House, Minsk, pp. 211–226. [in Russian].
- Tsurykau, A., V. Khranchankova and J. Motiejūnaitė. 2012a. *Pycnora sorophora* (Lecanoraceae) – lichen species new to Belarus. *Botanica Lithuanica* 18(1): 80–82.
- Tsurykau, A., V.M. Khranchankova and M.S. Lazareva. 2012b. Lignicolous lichens of some types of pine forests in the Gomel region. *Problemy lesovedeniya i lesovodstva* (Problems of silviculture) 72: 557–566. [in Russian].
- Tsurykau, A., V.M. Khranchankova and E.V. Tsukanava. 2012c. Lichen herbarium GSU. I. Genus *Cladonia* Hill ex P. Browne. *Proceedings of the F. Skorina Gomel State University* 5: 22–33. [in Russian].
- Tsurykau, A., A. Suija and V. Khranchankova. 2013a. New records of lichenicolous fungi from the Gomel Region of Belarus. *Folia Cryptogamica Estonica* 50: 67–71.
- Tsurykau, A., N.V. Tsurikova, V.M. Khranchankova and E.V. Tsukanava. 2013b. Lichen herbarium GSU. II. Parmeliaceae Zenker (*Alectoria* – *Melanohalea*). *Proceedings of the F. Skorina Gomel State University* 5: 173–183. [in Russian].
- Tsurykau, A., V. Golubkov and M. Kukwa. 2014a. New or otherwise interesting records of lichens and lichenicolous fungi from Belarus. *Herzogia* 27(1) 111–120.
- Tsurykau, A., V.V. Golubkov, N.V. Tsurikova and V.M. Khranchankova. 2014b. Lichens of genus *Lepraria* (Stereocaulaceae) in the city of Grodno. In: V.N. Burdz (ed.). *Actual Problems of Ecology: Abstracts of the X International Scientific Conference, Part 1*. Ya. Kupala Grodno State University, Grodno, pp. 50–52. [in Russian].
- Tsurykau, A., V. Golubkov and P. Bely. 2015. The genera *Hypotrachyna*, *Parmotrema* and *Punctelia* (Parmeliaceae, lichenized Ascomycota) in Belarus. *Herzogia*. 28(2): 736–745.
- Tsurykau, A., A. Suija, B. Heuchert and M. Kukwa. 2016a. New or otherwise interesting records of lichens and lichenicolous fungi from Belarus. II. *Herzogia* 29(1): 164–175.
- Tsurykau, A., V. Golubkov and P. Bely. 2016b. The genus *Lepraria* (Stereocaulaceae, lichenized Ascomycota) in Belarus. *Folia Cryptogamica Estonica* 53: 43–50.
- Tsurykau, A., V. Golubkov and P. Bely. 2018. The lichen genus *Xanthoparmelia* (Parmeliaceae) in Belarus. *Folia Cryptogamica Estonica* 55: 125–132.
- Valko, O.N. 2008. Bioindication of gas-dust type contamination by the lichen biota state assessing. In: I.B. Zavadnik (ed.). *Actual Problems of Ecology: Abstracts of the 4 International scientific conference*. Ya. Kupala Grodno State University, Grodno, pp. 125–128. [in Russian].
- Vitikainen, O. 2007. Peltigeraceae. In: T. Ahti, P.M. Jørgensen, H. Kristinsson, R. Moberg, U. Søchting and G. Thor. *Nordic Lichen Flora, Volume 3: Cyanolichens*. Mediaprint AB, Uddevalla, pp. 113–131.
- Vondrák, J., Z. Palice, A. Khodosovtsev and S. Postoyalkin. 2010. Additions to the diversity of rare or overlooked lichens and lichenicolous fungi in Ukrainian Carpathians. *Chornomorski Botanical Journal* 6(1): 6–34.
- Vyazovskaya, K.G. and V.V. Golubkov. 1997. Lichen identification and lichen indicators in determination of air quality in Minsk. In: O.R. Aleksandrovich (ed.). *Green schools in green lungs of Europe: Abstracts of International scientific conference*. M. Tank Belarusian State Pedagogical University, Minsk, pp. 17–18. [in Russian].
- Wilk, K. and A. Flakus. 2006. Four species of *Caloplaca* (Teloschistaceae, lichenized Ascomycota) new to Poland. *Mycotaxon* 96: 61–71.
- Wyssotzky, G.N., L.I. Savicz and V.P. Savicz. 1925. By southern Belarus. Observations at the botanical excursion. *Mémoires de l'Institut agronomique et forestier d'état de la Bélarussie* 4: 160–209. [in Russian].
- Yatsyna, A.P. 2004. Lichen diversity of raised bogs of Ostrova Duleby sanctuary. In: V.D. Polyksenova (ed.). *Actual problems of phyto- and mycobiota study: Collection of articles of the International scientific conference*. Belarusian State University Publishing Center, Minsk, pp. 97–98. [in Russian].
- Yatsyna, A.P. 2005. Lichen biota of the park “Stankovo”. In: M.A. Bondartseva (ed.). *Fungi in natural and anthropogenic ecosystems: Proceedings of the International conference. Vol. 2*. V.L. Komarov Botanical Institute, Saint-Petersburg, pp. 347–350. [in Russian].
- Yatsyna, A.P. 2006a. Lichens of the Logoisk town park (Belarus). In: O.N. Voronova and A.N. Ivanova (eds.). *Proceedings of the I (IX) conference of young botanists in Saint-Petersburg*. V.L. Komarov Botanical Institute, Saint-Petersburg, pp. 327–328. [in Russian].
- Yatsyna, A.P. 2006b. Epiphytic lichens of parks of Belarus. In S.B. Kurash (ed.). *Innovations-2006: Abstracts of XIII State student scientific conference*. I.P. Shamyakin Mozyr State Pedagogical University, Mozyr, p. 153. [in Russian].
- Yatsyna, A.P. 2007a. Lichen biota of the park “Komarovo”. In: *Biodiversity. Ecology. Adaptation. Evolution: Proceedings of the III International young scientists conference*. Pechatniy dom, Odesa, p. 101.
- Yatsyna, A.P. 2007b. The features of development of the lichen family Physciaceae Zahlbr. in five parks of Minsk region (Belarus). In: *Actual problems of botany and ecology: Abstracts of the International conference of young scientists*. Fitosotsiotsentr, Kyiv, pp. 47–48. [in Russian].

- Yatsyna, A.P. 2008. Essay on lichens of the field camp “Shchitovka” of Vitebsk State University. In: A.M. Dorofeev (ed.). *Biodiversity in Belarusian Lakeland: modern state, problems of use and conservation: Abstracts of the II International scientific conference*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 287–289. [in Russian].
- Yatsyna, A.P. 2009a. Epiphytic lichen sinusia of *Vaccinium myrtillosum* – *Pleurozium* type of pine forest of the field camp “Shchitovka”. In: A.L. Gladkov (ed.). *Proceedings of the State scientific conference of students, postgraduate students and young scientists*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 94–95. [in Russian].
- Yatsyna, A.P. 2009b. Essay on lichens of Osipovich district, Mogilev region. In: M.E. Nikiforov (ed.). *Problems of biological conservation and use of biological resources: Abstracts of International scientific conference; Part I*. Magic, Minsk, pp. 293–296. [in Russian].
- Yatsyna, A.P. 2009c. Genus *Cladonia* P. Browne in lichen communities of Narochansky National Park. In: V.S. Lushtyk (ed.). *Narochansky National Park: scientific provision, nature protection and environmental-educational activity, recreational potential: Abstracts of State scientific conference*. Medisont, Minsk, pp. 220–224. [in Russian].
- Yatsyna, A.P. 2009d. Lignicolous lichens of pine communities of the Narochansky National Park. In: A.M. Dorofeev (ed.). *Protected natural territories and objects in the Belarusian Lakeland: current state, development prospects: Abstracts of International scientific conference*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 85–86. [in Russian].
- Yatsyna, A.P. 2009e. Preliminary results and prospects of the inventory of Belarusian lichen specimens in the herbarium of the M.G. Kholodny Institute of Botany of NAS of Ukraine. In: E.L. Kordyum (ed.). *Actual problems of botany and ecology: Abstracts of International conference of young scientists*. Tutorials and manuals, Ternopil, pp. 90–91. [in Russian].
- Yatsyna, A.P. 2010a. Data to lichen flora of Volozhin district (Belarus). In: Ju.S. Otmakhov (ed.). *Prospects of development and problems of modern botany: Abstracts of the II(IV) All-Russian youth scientific conference*. Siberian Branch of RAS Publishing House, Novosibirsk, pp. 204–205. [in Russian].
- Yatsyna, A.P. 2010b. Genera *Baeomyces* Pers. and *Dibaeis* Clem. in lichen biota of Belarus. In: V.S. Ivkovich (ed.). *Wildness protection in the Republic of Belarus: results and perspectives: Abstracts of International conference*. Belarusian Publishing House, Minsk, pp. 236–239. [in Russian].
- Yatsyna, A.P. 2010c. Lichen flora of the “Braslav Lakes” National Park. Specially Protected Natural Territories of Belarus: Research 5: 227–247. [in Russian].
- Yatsyna, A.P. 2010d. Lichen species of the quarry Ruba and the Museum-Estate of I.E. Repin “Zdravnevo” (Vitebsk district). In: A.P. Solodov (ed.). *Science to Education, Production, Economics: Abstracts of the XV (62) Regional scientific conference*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 102–103. [in Russian].
- Yatsyna, A.P. 2010e. Lichens of the genus *Xanthoria* s.l. (Teloschistaceae Zahlbr.) in Belarus. *Botany Research* 39: 144–160. [in Russian].
- Yatsyna, A.P. 2010f. Lichens of oligotrophic and mesotrophic bogs of the Belarusian Lakeland. In: V.Y. Kuzmenko (ed.). *Ecosystems of marshes and lakes at the Belarusian Lakeland and adjacent territories: current state, problems of use and protection: Abstracts of International scientific conference*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 133–135. [in Russian].
- Yatsyna, A.P. 2010g. Lichen biota of the biological reserve “Slonimsky”. In: I.V. Abramova (ed.). *Environmental monitoring: Abstracts of International scientific conference*. A.S. Pushkin Brest State University, Brest, pp. 130–132. [in Russian].
- Yatsyna, A.P. 2010h. New localities of rare and protected lichen species on the territory of the Minsk Upland. In: I.B. Zavodnik (ed.). *Actual Problems of Ecology: Abstracts of the VI International scientific conference*. Ya. Kupala Grodno State University, Grodno, pp. 73–75. [in Russian].
- Yatsyna, A.P. 2011a. Current state of lichen flora of the Belarusian Lakeland. In: L.M. Merzhvinsky (ed.). *Biodiversity of the Belarusian Lakeland*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 91–103. [in Russian].
- Yatsyna, A.P. 2011b. New data on the lichen genus *Tuckermannopsis* Gyeln. (Parmeliaceae) in the flora of Belarus. In: L.N. Usacheva (ed.). *State of environment at Polesie and adjacent territories: Abstracts of State scientific conference*. A.S. Pushkin Brest State University, Brest, pp. 48–50. [in Russian].
- Yatsyna, A.P. 2011c. New findings of lichens and non-lichenized fungi in Belarus. In: N.P. Kanunnikova (ed.). *Actual Problems of Ecology: Abstracts of the VII International scientific conference*. Ya. Kupala Grodno State University, Grodno, pp. 54–55. [in Russian].
- Yatsyna, A.P. 2011d. New findings of protected lichen species in Belarus. In: V.Ya. Kuzmenko (ed.). *Red Data Book of the Republic Belarus: current state, problems and perspectives: Abstracts of International scientific conference*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 194–196. [in Russian].
- Yatsyna, A.P. 2011e. The first contribution to lichens, lichenicolous and allied fungi from Braslav lakes National park (NW Belarus). *Botanica Lithuanica* 17(4): 177–184.
- Yatsyna, A.P. 2012a. Essay on lichens of Gluski district. In: I.N. Sharukho, I.I. Pirozhkin and I.I. Barinova (eds.). *Problems of sustainable development of regions in the Republic of Belarus and neighboring countries:*

- Abstracts of International scientific conference. Part 2.* A.A. Kuleshov Mogilev State University, Mogilev, pp. 316–320. [in Russian].
- Yatsyna, A.P. 2012b. Lichen biota of “Ignatichi” park (Belarus). In: I.B. Zavodnik (ed.). *Actual Problems of Ecology: Abstracts of the VIII International scientific conference, Part 2.* Ya. Kupala Grodno State University, Grodno, pp. 76 – 77. [in Russian].
- Yatsyna, A.P. 2012c. Lichens of “Shipyany” park (Smolevichi district, Belarus). In: V.I. Parfenov (ed.). *Problems of conservation biology and use of biological resources: Abstracts of the International scientific conference.* Minskproject, Minsk, pp. 278 – 281. [in Russian].
- Yatsyna, A.P. 2012d. New and interesting findings of lichens and non-lichenized fungi for Belarus. *Proceedings of the P.M. Masherov Vitebsk State University* 5(71): 45–49. [in Russian].
- Yatsyna, A.P. 2012e. New species of lichens, lichenicolous and non-lichenized fungi for Pripyatsky National Park. In: V.S. Ivkovich (ed.). *Current state and prospects for the development of specially protected natural areas of the Republic of Belarus: Abstracts of the International scientific conference.* Belarusian Publishing House, Minsk, pp. 101–104. [in Russian].
- Yatsyna, A.P. 2012f. Placoid lichens in the flora of Belarus. In: N.M. Dajneko (ed.). *Young researchers to botanical science 2012: Abstracts of the III International scientific conference.* F. Skorina Gomel State University, Gomel, pp. 79–82. [in Russian].
- Yatsyna, A.P. 2012g. Taxonomic analysis of lichens from pine forests of Belarus. *Botany Research* 41: 63–77. [in Russian].
- Yatsyna, A.P. 2013a. An annotated checklist of lichens from pine forests of Belarus. *Specially Protected Natural Territories of Belarus: Research* 8: 152–186. [in Russian].
- Yatsyna, A.P. 2013b. Lichens of manor parks from central part of Minsk region (Belarus). *Novitates Systematicae Plantarum non Vascularium* 47: 302–309. [in Russian].
- Yatsyna, A.P. 2013c. Lichens of manor parks from north-western part of Minsk region. *Proceedings of the P.M. Masherov Vitebsk State University* 5(77): 58–64. [in Russian].
- Yatsyna, A.P. 2013d. New and interesting records of lichens and lichenicolous fungus for Belarus. *Proceedings of the P.M. Masherov Vitebsk State University* 3(75): 62–67. [in Russian].
- Yatsyna, A.P. 2013e. New findings of protected lichens in Belarus. In: I.M. Prischepa (ed.). *Ecological culture and environmental protection: 1st Dorofeev Readings: Abstracts of the International scientific conference.* P.M. Masherov Vitebsk State University, Vitebsk, pp. 245–247. [in Russian].
- Yatsyna, A.P. 2013f. New species of lichens and non-lichenized fungi for Braslav Lakes National park. *Proceedings of the P.M. Masherov Vitebsk State University* 2(74): 53–59. [in Russian].
- Yatsyna, A.P. 2014a. Lichens from manor parks in Minsk region (Belarus). *Botanica Lithuanica* 20(2): 159–168.
- Yatsyna, A.P. 2014b. Lichens of the palace and park complex “Radziwill” in Nesvizh (Belarus). In: A.V. Pugachevsky (ed.). *Current state, development trends, rational use and conservation of the biological diversity of the plant world: Abstracts of the International scientific conference.* Ecoperspective, Minsk, pp. 162–165. [in Russian].
- Yatsyna, A.P. 2014c. Phytocoenotic features of lichen biota formation in pine forests in Belarus. *Proceedings of the P.M. Masherov Vitebsk State University* 1(79): 36–43. [in Russian].
- Yatsyna, A.P. 2014d. Preliminary results of the lichen inventory of the “Middle Pripyat” landscape reserve. *Specially Protected Natural Territories of Belarus: Research* 9: 206–217. [in Russian].
- Yatsyna, A.P. 2015a. Analysis of lichen substrates in manor parks in Minsk region (Belarus). In: V.G. Storozhenko and V.B. Zviagintsev (eds.). *Problems of forest phytopathology and mycology: Abstracts of the IX International conference.* BSTU, Minsk, pp. 272–275. [in Russian].
- Yatsyna, A.P. 2015b. Environmental significance of manor parks in Minsk region. In: V.V. Titok (ed.). *Problems of conservation biology and use of biological resources: Abstracts of International scientific conference.* Konfido, Minsk, pp. 245–250. [in Russian].
- Yatsyna, A.P. 2015c. Lichen biota of the “Alba” monument of nature. *Proceedings of the P.M. Masherov Vitebsk State University* 2–3(86–87): 65–71. [in Russian].
- Yatsyna, A.P. 2015d. Lichen biota of the Grodno fortress forts (Belarus). In: *Proceedings of III(XI) International botanical conference of young scientists in Saint-Petersburg.* Komarov Botanical Institute, Saint-Petersburg, p. 46. [in Russian].
- Yatsyna, A.P. 2015e. Lichens. In: I.M. Kachanovsky (ed.). *Red data book of Belarus. Plants: rare and endangered species of wild plants.* P. Brovka Belarusian Encyclopedia, Minsk, pp. 325–354, 407–412. [in Russian].
- Yatsyna, A.P. 2016a. A review of the lichen genera *Chaenotheca* and *Sclerophora* (Coniocybaceae) in Belarus. *Novitates Systematicae Plantarum non Vascularium* 50: 257–267. [in Russian].
- Yatsyna, A.P. 2016b. Genus *Ramalina* Ach. in lichen herbarium of laboratory of mycology at the V.F. Kuprevich Institute of Experimental Botany of National Academy of Sciences of Belarus. *Proceedings of the P.M. Masherov Vitebsk State University* 2(91): 28–37. [in Russian].
- Yatsyna, A.P. 2016c. Lichen biota of some existing and proposed protected areas in the Grodno region (Belarus). *Bulletin of Ya. Kupala Grodno State University, Series 5: Economics, Sociology, Biology* 6(2): 141–147. [in Russian].

- Yatsyna, A.P. 2017. Lichens of mature spruce forests of the two protected areas of Vitebsk region. Proceedings of the P.M. Masherov Vitebsk State University 3(96): 74–79. [in Russian].
- Yatsyna, A.P. and V.V. Golubkov. 2009. Preliminary analysis and perspectives of the study of lichen flora of the Narochansky National Park. In: I.P. Prischepa (ed.). *61 Regional scientific conference of teachers, researchers, post-graduate students: a collection of articles*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 26–28. [in Russian].
- Yatsyna, A.P. and S.Y. Kondratyuk. 2013. New data about Xanthorioid lichens from Belarus. Bulletin of the I.P. Shamyakin Mozyr State Pedagogical University 3(40): 29–33. [in Russian].
- Yatsyna, A.P. and L.M. Merzhvinsky. 2012. Workbook on lichens. P.M. Masherov Vitebsk State University, Vitebsk, 212 pp. [in Russian].
- Yatsyna, A.P. and J. Motiejūnaite. 2015. New and noteworthy lichens to Belarus. Botanica Lithuanica 21(1): 57–63.
- Yatsyna, A.P. and A.I. Stefanovich. 2005. Lichens of Narochansky National Park. In: A.M. Dorofeev (ed.). *Protected natural areas and objects of Belarusian Lakeland: modern state, perspectives of development: II International scientific conference*. P.M. Masherov Vitebsk State University, Vitebsk, pp. 196–198. [in Russian].
- Yatsyna, A.P. and E.O. Yurchenko. 2007. A bibliography of Belarusian lichenology. – *Mycena* 7: 48–107.
- Yatsyna, A.P. and E.O. Yurchenko. 2013. Lichens of historical manor park in northwest – central Belarus. Bulletin of Palesky State University, Natural sciences 2: 3–11.
- Yurchenko, E.O. 2011. Lichens of Belarus: an illustrated electronic handbook. K.E. Dovgailo, Minsk, 1 CD.
- Yurchenko, E.O. and V.V. Golubkov. 2003. The morphology, biology, and geography of a necrotrophic basidiomycete *Athelia arachnoidea* in Belarus. *Mycological Progress* 2(4): 275–284.
- Yurkevich, I.D., D.S. Golod and V.S. Aderikho. 1979. Vegetation of Belarus, its cartography, protection and utilization. Nauka i tekhnika, Minsk, 248 pp. [in Russian].
- Zeliankevich, N.A., D.G. Grummo, O.V. Sozinov and O.V. Galanina. 2016. Flora and vegetation of the raised bogs of Belarus. StroyMediaProekt, Minsk, 244 pp. [in Russian].

APPENDIX I – TAXA NOT DOCUMENTED FROM BELAUS IN ~100+ YEARS

As is outlined in the results and discussion section, this is a listing of the 28 taxa that appear not to have been relocated in Belarus in nearly a century or more. Efforts to relocate extant populations of lichens known only from historical reports should prioritize these species.

Gilibert (1781, 1792)

Blennothallia crispa

Savicz (1911)

Bacidia igniarii

Brianaria tuberculata

Kreyer (1913)

Bacidia circumspecta

Blastenia crenularia

Cresponea chloroconia

Lecidella carpathica

Schaereria fuscocinerea

Scytinium tenuissimum

Bachmann & Bachmann (1920)

Bacidia friesiana

Bryobilimbia sanguineoatra

Caloplaca chlorina

Caloplaca obscurella

Cladonia cervicornis

Clauzadea monticola

Lathagrium auriforme

Micarea lynceola

Physciella chloantha

Rhizocarpon subpostumum

Trapelia glebulosa

Trapelia involuta

Verrucaria floerkeana

Verrucaria rupestris

Savicz & Savicz (1924)
Byssoloma subdiscordans
Wyssotzky et al. (1925)
Trapeliopsis gelatinosa
Savicz (1925)
Nephroma bellum
Nephroma parile
Nephroma resupinatum