

APHYLLOPHOROID FUNGI OF SVERDLOVSK REGION, RUSSIA

BIODIVERSITY,
DISTRIBUTION, ECOLOGY AND
THE IUCN THREAT CATEGORIES

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**АФИЛЛОФОРОИДНЫЕ ГРИБЫ
СВЕРДЛОВСКОЙ ОБЛАСТИ:
БИОРАЗНООБРАЗИЕ,
РАСПРОСТРАНЕНИЕ,
ЭКОЛОГИЯ И IUCN КАТЕГОРИИ**

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На основе анализа коллекционного материала Афиллофороидных грибов собранных на территории Свердловской области за последние 150 лет составлен аннотированный список включающий 908 видов (включая Гетеробазидиальные грибы), из которых 219 видов впервые упоминаются для региона. Для каждого вида и образца приводится литературная ссылка, если он был опубликован, если же вид или образец отмечается впервые для региона, то указывается полная информация о месте сбора материала, природная зона, местообитание, гербарный номер; а также, впервые для территории России, дается указание на охранный статус вида согласно категориям IUCN. Распределение видов дано в соответствии с геоботаническим районированием региона. Наибольшее количество видов отмечено в различных типах лесов (787 species, 86.7%) и высокогориях (88 видов, 9.7%). Наиболее богатыми являются южнотаежная (730 species, 79.5%) и подтаежная (хвойно-широколиственная) (645 species, 70.3%) природные подзоны. Основное количество видов (609 видов, 67.1%) отнесено к категории Least Concern (LC), затем следует Near Threatened (NT) группа видов (90 видов, 9.9%). Четыре вида отнесены к категории Regionally Extinct (RE) (*Fomitopsis epileucina* (Pilát) Gilb. & Ryvarden, *Piptoporus quercinus* (Schrad.) P. Karst., *Spongipellis pachyodon* (Pers.) Kotlaba & Pouzar, *Tyromyces wyunei* (Berk. & Broome) Donk).

Книга предназначена для микологов, экологов, специалистов по охране природы, преподавателей и студентов-биологов, натуралистов.

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On the basis of 150 years collecting the first check-list of Aphylophoroid species of the Sverdlovsk region (Russia, Ural) which is on the border of Europe and Asia was combined. Altogether 908 species (including Heterobasidioid fungi) are known, 219 of them are reported as new for the entire region. Each record includes literature references, and when available, selected unpublished specimens deposited in herbaria or collected recently, also with IUCN threat categories, type of nature vegetation zone and life strategies are listed. The distribution of each species in the different biogeographical areas of the Sverdlovsk region is summarized, and brief notes are provided for species. Most of the species grow in various kinds of forests (787 species, 86.7%), and Alpine habitats (88 species, 9.7%) of the Ural Mountains. Most rich nature zones are the Southern Boreal (730 species, 79.5%) and Hemiboreal (645 species, 70.3%). The biggest number of species (609 species, 67.1%) belong to the Least Concern (LC) category, followed by the Near Threatened (NT) species (90 species, 9.9%). The four species mentioned as a Regionally Extinct (RE) (*Fomitopsis epileucina* (Pilát) Gilb. & Ryvardeen, *Piptoporus quercinus* (Schrad.) P. Karst., *Spongipellis pachyodon* (Pers.) Kotlaba & Pouzar, *Tyromyces wynnei* (Berk. & Broome) Donk).

For mycologists, ecologists, specialists in nature conservation, teachers and students, naturalists.

Reviewers:

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Front cover:

Onnia leporina, *Ramariopsis subarctica*, *Fomitopsis cajanderi*,
Antrodiella foliaceodontata

Photographs by Anton G. Shiryayev, Iraida V. Stavishenko and Heikki Kotiranta

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PREFACE

*A*phyllorphoroid fungi are a fungal group of high ecologic interest and economic importance. They take part in different natural processes; however, most of them are saprotrophs, providing decay of vegetative residual in Temperate ecosystem. Among them there is a truly unique group of wood-destroying aphyllorphoroid fungi of biospheric significance. They are the single organisms in the modern biosphere capable of biochemical conversion of all wood components. Nowadays they attract public attention being the emitters of greenhouse gas CO₂ and CH₄, which cause the climate changes. At the same time, saprotrophic aphyllorphoroid fungi because of their natural characteristics serve as agents of timber stands and wood materials biodeterioration, which causes a large economic damage.

Aphyllorphoroid fungi were traditionally paid much attention of Ural mycologists. Contribution of such scientists as Z.A. Demidova, T.N. Stepanova–Kartavenko was really valuable. So, the monograph of T.N. Stepanova–Kartavenko «Aphyllorphoroid fungi of Urals», issued in 1967, is still the greatest report on biologic diversity, geography and ecology of aphyllorphoroid fungi in Urals. During the last decades, Ural mycologists with participation of foreign specialists received a vast new data, concerning biodiversity, geography and ecology of aphyllorphoroid fungi. Further more, there appeared dramatic changes in nomenclature, in opinion of many species number, that demanded its comprehension and working out the new report on aphyllorphoroid fungi in Urals.

The following book contains the complete materials on biologic diversity, geography and ecology of aphyllorphoroid fungi of one of the largest regions of Urals – Sverdlovsk region. Information about more than 900 species (more than 200 are new for the region) is given, as well as rather detailed geographical and coenotic analysis of species distribution. The novation for such kind of issue is mentioned Red List status according to IUCN. It makes the fungi protection much easier, in particular, the process of compilation of the list of rare species requiring protection.

Prof. Victor A. Mukhin

INTRODUCTION

This check-list of Aphyllophoroid fungi of the Sverdlovsk region is the result of long-term study of Russian and foreign mycologists (since 1876). The need of homogenous cognitive corpus, and a nomenclatural reference for successive steps, such as realization of distribution maps, and local and national red lists, led to the compilation of an up-dates check-list. This work indeed includes just the first step of cognitive development, because it reports the distribution of fungal species and sub-specific entities in the Sverdlovsk region of Russia.

In fact, the Bern Convention (19 September 1979, treaty n. 104) and European Council for Conservation of Fungi (ECCF) provided a number of directions to compile lists of rare and threatened species, aimed to the protection of fungi in Europe. In Russia, Law N. 323 (06.IV.2004) assigns the improvement, conservation and restoration of environmental conditions that satisfy common interest and quality of life to Ministry of Natural Recourses. In addition, the Ministry of Natural Recourses is entrusted with the task of coordinating the collection, organization and classification on natural environment.

In the Sverdlovsk region, fungi are presented in controlled, but mostly in protected areas where the laws regulate their harvesting. Nowadays, there are two Nature Strict Reserves (Denezhkin Kamen and Visim), one Federal National Park (Pripishmink Bory), four Nature Parks (Oleni Ruchii, Reka Chusovaya, Maly Istok, Bazhov's places), 66 Nature Reservations, 111 genetic reservations and 425 local Botanical, Landscapes, Hydrological & Mineralogical Reservations, which integrally form more than 1300 protected territories (incl. 6.7% of regional territory) in the Sverdlovsk region (Nature..., 2004). Such a big number makes the region one of the leaders in biodiversity protection in Russia. Administration of each nature protected territory must provide and help in ecological

studies at all levels. On the basis, that regional biodiversity of flora and fauna is thoroughly studied, government of the Sverdlovsk region accepted a Law N. 377-p «Rules of work and issue of the Red Book in the Sverdlovsk region» (12 May, 2006) with brief changes on May 23, 2006. That entailed discussions and work over the new issue of the regional Red Book, with emphasis on possible conservation of the threatened species. Rare and threatened species of animals, plants and fungi included in the Red book of the Sverdlovsk region, are subjects of special protection which are withdrawn from economic use on the whole territory of the Sverdlovsk region. Any activity leading to reduction of their number and worsening the environment of their dwelling is forbidden. Economic activities which are carried out in places of dwelling of species, included in the Red book of the Sverdlovsk region. Check-lists of most appreciable fungi – Aphyllorphoroid – was compiled with emphasis on distribution of rare and threatened fungi, as in administrative, biogeographical provinces, as well as on nature protected territories. Analysis of the received data is used as the basis for the concept of inclusion of fungal species in the Red Book. The check-list is all the more very important for the scientific community, because it is the first complete modern fungal list from this part of the Eurasia, after the compilation work on Aphyllorphoroid fungi of the Urals (Stepanova-Kartavenko, 1967; Stepanova, 1971).

In order to reduce the gap in our knowledge, the first part of a «Check-list of the Sverdlovsk region fungi», mainly based on recent reports, was prepared. A list of the whole Sverdlovsk regional fungi containing the enormous amount of data was started with a limited taxonomical group of macrofungi. The first part includes Aphyllorphoroid fungi, part of Basidiomycetes (Basidiomycota). They are easy to record and usually collected and identified by a large number of mycologists. Moreover, data are available due to economical interests in many of them, mainly in the spontaneous wood decaying or edible. Within the Basidiomycetes, Aphyllorphoroid fungi present the largest number of species recorded by a large number of mycologists; Agaricales s. l., Gasteromycetes, Uredinomycetes and Ustilaginomycetes will eventually be added later. Phylum Ascomycota (with lichens and anamorphic fungi) is suggested to be included in the next issues of the Checklist.

Some difficulties in realizing this project were caused by a lack of data from some Regional parts and low level of homogeneity of data from different areas. The high geographical, climatic, geological, pedagogical, and biological diversity in the Sverdlovsk district, and lack of mycological data in some areas, entail difficulties. The same reasons explain the rich and diversified vascular flora and a rich mycota.

Geographical and natural description of Sverdlovsk region

The Sverdlovsk region is situated 1600 km to the east from Moscow in area of the Ural mountains, on the border of Europe and Asia. It is a part of the Urals Federal District among the other 6 regions: the Chelyabinsk, Kurgan and Tyumen regions, and also Khanty-Mansi and Yamal-Nenets Autonomous Districts. The area of the Sverdlovsk region is 195 thousand square km, twice exceeding the area of Hungary and four times of Switzerland. The convenient site of the region and the developed transport network form the region as a centre of distribution of an industrial output of the country. Assessing in-

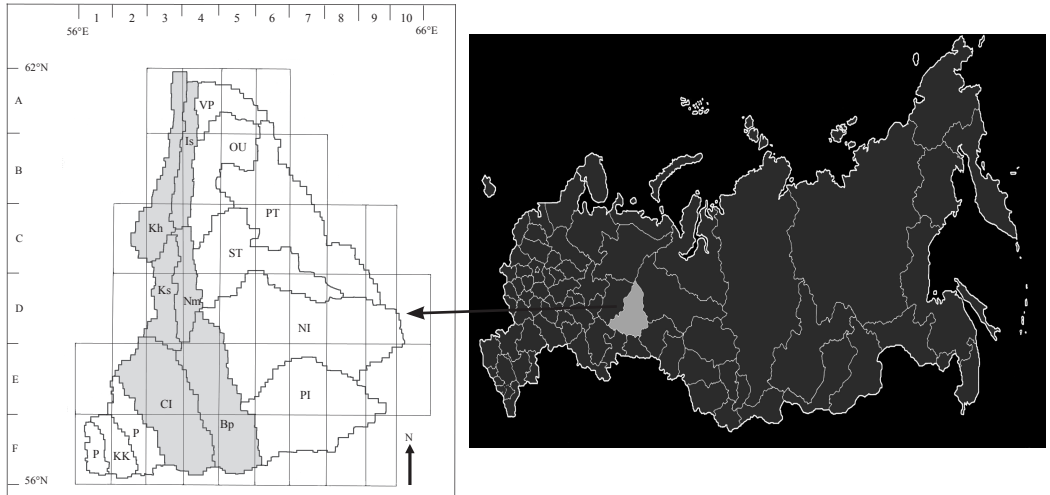


Fig. 1. Location and the biogeographical provinces of Sverdlovsk region with their acronyms used in the text

dustrial parameters, the area is one of the basic economic districts Russian Federations. Also, the capital of the Sverdlovsk region – Ekaterinburg city is the Centre of the Urals Division of the Russian Academy of Science.

The climate in the region is continental, temperature varies from -35°C up to $+39^{\circ}\text{C}$ degrees. Practically all territory of the region is located in the taiga zone (94%): 66% areas (12.6 million hectares) are covered by vast forests, basically coniferous. The general cutting down in the Sverdlovsk region makes 18.3 million cubic meters, 35% of them are exposed to processing. There of *Betula nana*, *Juniperus sibirica*, *Pinus sibirica*, *Larix sibirica*. Between rocky stones, higher than 1000 m a.s.l. there are only mosses and lichens. The height of the West Siberian plain on the territory of the region is about 150–300 m a.s.l. and the climate is continental. The area is covered predominantly by pine and spruce-birch forests with sparsely distributed *Tilia cordata*, *Ulmus laevis* and *Calluna vulgaris*. Portion of the mosses and bogs are increasing to the north.

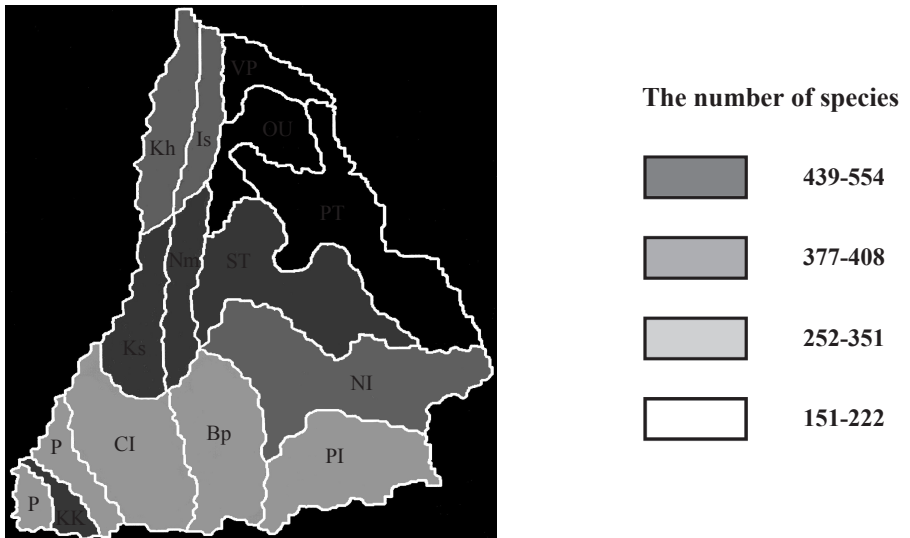
The more detailed subdivision of the Sverdlovsk region on biogeographical province (according to Gorchakovski et al, 1994 with English translation) is presented below. Areas are located from the south to the north. Position of each area inside the region see in fig. 2:

EAST-EUROPEN HILLS

Perm (P): Covers the northern part of the Ufa plateau. Heights up to 450 m a.s.l. Soils are strongly- and medium podzolic hard skeletal, and also light-grey, forest-steppe subpodzolic and brown-mountainous, with heavy mechanical structure. *Hemiboreal* broad-leaved-fir-ests of nemoral types are dominate here. Oak, linden, maple, elms, hazel, black alder, as well as white poplar and white willow are common. Everywhere

there are derivative birch and aspen secondary forests. The big areas are covered with the farmlands on the place of destroyed native vegetation.

Kungur-Krasnoufimsk (KK): It is located in the Juruzan-Silva tectonic deflection. Heights about 200-400 m a.s.l. Soils are podzolic northern chernozems and grey-forests. A flat part of an area, where meadow steppes (*forest-steppe of European types*) were widespread before, now is completely bald. The kept natural vegetation is presented at the tops of the hills by sites of steppes – stony soils (multigrasses-stipa and typical multigrasses types), meadow (multigrasses-cereal) and steppes multigrasses meadows. Among sites of steppes and on their border with birch forests there are thickets of steppe bushes of *Spirea crenata*, *Cerasus fruticosa*, *Cotoneaster melanocarpa* etc. On the slopes of the hills there are both steppous birch and pine woods intermixed, with linden, and elms, and oak woodland. On periphery of a area in the eastern part there are broadleaved-pine, and in the western – broad-leaved-spruce forests.



EAST-EUROPEN HILLS
P Perm
KK Kungur-Krasnoufimsk

URAL MOUNTAIN RANGE
CI Chusovoy
Bp Beloyarsk
Ks Kachkanar
Nm Nizhniy Tagil
Kh Konzhakov
Is Ivdel

WEST SIBERIAN PLAIN
PI Pishma
NI Nitsa
ST Sosva-Tura
PT Pelym-Tavda
OU Ous
VP Verkh-Pelym

Fig. 2. Species diversity and degree of mycological study of Aphyllophoroid fungi in biogeographical province of the Sverdlovsk region

URAL MOUNTAIN RANGE

Chusovoy low mountainous (Cl): It covers the most part of the Chusovaya river basin. Heights about 300-500 m. a.s.l. Soils in the western part are mountainous brown-podzolic, in the east – mountainous-podzolic with fragments of the brown. Native vegetation is *southern boreal* fir-spruce and spruce-fir-Siberian pine forests intermixed with linden and elms, and with few moss cover, grass-shrubs sites, with significant proportion of nemoral (temperate) elements. The greater area is covered with secondary birch and aspen grassy forests and the farmlands on a place of cut down dark-coniferous forests.

Beloyarsk peneplen (Bp): Relative to plainly-hills peneplen, slightly raised territory. Heights up to 300 m a.s.l. Soils are middle and lowpodzolic, peat and peat-clay riding bogs. *Southern boreal* forests with pine and pine-larch forests with significant proportion of a linden type prevail: mosses, grass-shrubs, places with *Cytisus ruthenicus* in an underbrush. The big areas are covered by the agricultural environments, birch and birch-pine forests. There are extensive territories under peat bogs (mainly birch-pine and spruce *Carex*-multigrasses forests on eutrophic bogs).

Kachkanar submountainous (Ks): Is lies in the southern part of ridges of the Middle Urals western slopes. Heights of 500-600 m a.s.l., sometimes (Kachkanar mnt.) up to 990 m. a.s.l. Soils are skeletal-mountainous stony-litter mixed in a combination with mountain-meadow turfen. *Middle boreal* forest (*south boreal* in southern part of area) with fir-spruce and spruce-siberian pine of mosses, shrubs and grass-shrubs types prevail. In the western part – secondary birch and aspen-birch forests.

Nizhniy Tagil low mountainous (Nm): Includes the foothills of the Middle Urals eastern slope with heights about 300-400 m a.s.l. Soils are mountain-podzolic in a combination with brown-forests. Aborigen vegetation is *middle boreal* larch-pine forests (grass-shrubs, places with *Cytisus ruthenicus* in an underbrush). In the south of the area, the *south boreal* pine forests dominate, frequently with a linden in an underbrush.

Konzhakov high mountainous (Kh): Covers a part of the Northern Ural Mountains. The highest top – Konzhakov Kamen mountain (1569 m a.s.l.). Soils are mountainous, mountainous-meadow and primitive-accumulative mountain-tundrous. Four high-altitude belts are recognized: mountain-forests (up to height 700 m a.s.l.), subAlpine (subgoltsy) (700–900 m a.s.l.), Alpine mountain-tundra (900–1400 m a.s.l.) and an Alpine deserts belt (cold goltsy deserts) (above 1400 m a.s.l.). In a the *northern boreal* mountain-forests belt *Pinus sibirica* and *Picea obovata* of lichen-mosses type with grasses and shrubs of subarctic and boreal elements with a part of Arcto-alpine plants prevail. *Subalpine* (subgoltsy) belt is formed by light forests of curve-forming birch, spruce, larch in a combination with high-mountainous meadows and fragments of mountain tundra. For a mountain-tundra belt the lichen-moss-shrub, shrub-mosses and grass-mosses tundra are characteristic. In an *Alpine* belt (Alpine-tundra (goltsy) deserts, naked rocks of the highest tops of Northern Urals Mountains) communities with lichens, mosses and a small number of species of vascular plants are widespread.

Ivdel submountainous (Is): Covers high foothills of the Northern Ural Mountains eastern slope with heights about 400-550 m a.s.l. Soils are podzolic in a combination with skeletal-brown stony-litter mixed. A basis of a vegetative cover consists of a *north*

boreal pine light forests with larch and intermixed with mosaic lichen-mosses grass-shrubs cover, alternates sites of rocky exposures. Larch-pine mosses forest with grass-shrubs forests of the middle boreal types are met in a southern part of the area. The foothills are covered by *middle taiga*. There are a lot of secondary birch and pine-birch woods.

WEST SIBERIAN PLAIN

Pishma (PI): Covers a part of the Transural inclined plain with heights about 120 m a.s.l. Soils – northern alkali chernozems, alternated with meadow chernozems and grey-forests soils. The role of bogs is insignificant. In the past meadow steppes here, aspen and birch, pine and birch-pine forests were widespread. Now the most part of the area is covered by agricultural vegetations. Forests were kept by separate woodlands. They are presented by *hemiboreal* pine forests, with the rarefied moss cover of bush-grassy type including *Cytisus ruthenicus* in an underbrush with relict sites of a linden and *Calluna vulgaris*. Also, the southern part is covered by *forest-steppe of the West Siberian type* on old alluvial deposits of the Pishma river, together with saline steppous vegetation, like *Salicornia europea*, *Salsola collina* and *Sueda maritima*.

Nitsa (NI): Covers the Transural inclined plain with heights from 110 up to 130 m a.s.l. It's crossed in longitudinal direction by the rivers Tagil, Nitsa and Tura. In the western part strongly podzolic, peat and peat-sandy-podzolic soils are developed, in the central part – clay-podzolic with impregnations of grey-forests, in east part, in the Tura and Tavda riverbound – illuvial-ferruterous and clay-sandy, to North-East from the river Tavda – peat and peat-clay-litter rotted marshy. The agricultural vegetation and secondary birch, pine-birch, aspen and grey alder forests cover a greater part of the area. *Southern boreal* pine-spruce with linden of mosses and lichen bush types, with Sphagnum riding bogs are widespread here. A role of bogs is below in comparison with more northern areas. The relicts spots of elms and linden are presents.

Sosva-Tavda (ST): Covers a significant part of the Turinsk-Tavda river bound, a middle part of Sosva river basin within the limits of Transural inclined plain. Average heights are 140 m a.s.l. Soils are strongly podzolic, peat, peat-sandy-podzolic. *Middle boreal* pine-spruce forests of mosses and lichen bushes types in a combination with boggy pine forests in the western part prevail. In the South-East along the Tura river middle boreal forests with Siberian pine-spruce intermixed with both spruce-siberian pine peat grasses-shrubs and grassy forests in a combination with boggy pine forests occur. There are a lot of pine-Eriophorum-Sphagnum bogs of boreal type. Also shrub-grass-sphagnum bogs of the transitive Europe-West Siberian type are presented.

Pelym-Tavda (PT): Covers the western part of the Kondinsk lowland, situated along the rivers Loz'va, Pelym and Tavda. Height is up to 90 m a.s.l. there are a lot of slow flowing lakes – «fogs». Soils are mainly peat and peat-clay-sandy riding bogs, and also clay-sandy podzolic, in a southeast part – sandy-strongly podzolic. Sphagnum bogs are widely spread: bush-Eriophorum-Sphagnum, and also peat-Sphagnum transitive of

the Europe-West Siberian type. Middle boreal forests are grassy, pine grass-boggy and spruce-pine forests of lichen type. The valleys of Tavda and Sosva rivers are denuded and covered by the agricultural landscapes.

Ous (OU): Covers the southern part of the North-Sosva height (about 150 m a.s.l.). Soils are clay-peat and peat, in the South-West they are strongly podzolic, peat-clay-sandy-podzolic. The *middle boreal* pine forests with a spruce of mosses- and lichen-bushes types are widespread here. The value of Siberian pine-spruce forests of Sphagnum-grassy type is great. In the South-East the secondary birch and aspen forests, which have arisen on a place of aborigin fir-spruce and spruce-siberian pine forests are also very valuable.

Verkh Pelym (VP): Pelym riverheads concern to the North-Sosva heights (about 170 m. a.s.l.). Soils are peat, on heights – clay-sandy-structured. *Middle boreal* forest in the western part consists of pine, sometimes with a larch, opened lichen and moss-lichen shrubs forests. In the eastern part – northern boreal pine forests of *Betula nana*, shrub and Sphagnum types intermixed with the *Betula nana*-*Eriophorum*-Sphagnum riding bogs prevail. Spruce and birch-spruce forests with pine bogs are less often. There are Siberian pine-spruce and spruce-siberian pine curve-tree forests in the Sylva river valley intermixed with all kind of bogs.

History of aphylloroid fungi investigation in Sverdlovsk region

The history of Aphylloroid fungi researches in the Sverdlovsk region totals about 150 years. The first mentions concern to work of N.V.Sorokin (1876) where 23 species were named. By the beginning of XX century owing to works of N.P.Bulychjov (1876), P.V.Suzev (1898), Yu.P.Kolosoov (1914) and N.A.Naumov (1915) for region 36 species of Aphylloroid fungi have been known in the region. In 1925, in Sverdlovsk city investigations of the Urals Plant Protection Station (CTA3PA) started Z.A.Demidova worked there. The primary goal was the organization of phytopathologic laboratory for illnesses activators of cultural wood and grassy plants studying. Measures of development of controlling methods were worked out. Since 1929 at biological sector of the Ural Forestry Institute a laboratory on studying biology of parasitic and house fungi has started working.

Since 1943 in the Sverdlovsk Botanical Garden and Forestry Institute work on studying wood-decaying fungi has been started. S.I.Vanin and F.A.Solovjev – their collections, and also materials collected by Z.A.Demidova lay in a basis of mycological herbarium (SVER) created in 1944 at Biology Institute of the Ural Department of the USSR Academy of Science (nowadays *Institute of Plant & Animal Ecology (IPAE) of Ural Division of the Russian Academy of Science*). Systematic studying of the Urals (including Sverdlovsk, Perm, Chelyabinsk, Kurgan, Orenburg, Tyumen, Bashkiria, Khanty-Mansi, Yamal-Nenetsk and Komi regions) Aphylloroid fungi distribution and ecology began from the moment of the Forestry laboratory in Biology Institute foundation where N.T.Kartavenko started her work. Her researches also included a phytopathologic situation on the southern (forest-steppe zone) and the northern border of a timber zone (forest-tundra mountainous forests of the Polar Urals).

Result of long-term researches of N.T. Stepanova-Kartavenko is a monograph «Aphyllophoroid fungi of the Urals Mountains» issued in 1967 where distribution and ecology of 294 Aphyllophoroid fungi species in the Sverdlovsk region are discussed. In her Dr.Sci. dissertation (Stepanova, 1971) it is demonstrated on 462 species and the place of Urals mycobiota in the general context of world researches. Aphyllophoroid fungi contemporary researches in the Sverdlovsk region are carried out by V.A. Mukhin and H. Kotiranta (wood-decaying fungi' ecology), A.G. Shiryayev (clavarioid & cantharelloid fungi' ecology), I.V. Stavishenko (wood-decaying fungi' ecology of anthropogenic and protected natural territories), N.V. Ushakova (polypores ecology); V.G. Bryzgalov, Ye.V. Bryndina (fungal ecology under air-pollutions). Physiology of wood-decaying fungi is studied by V.A. Mukhin in cooperation with P.Yu. Voronin & V.A. Ladatko. More detailed information of mycological investigations history in the Sverdlovsk region is possible to find in the special historical review (Demidova, 1960a) and Bibliographic Index of Mycological researches in the Urals region (Bratseva, Mukhin, 2008).

As a result, by the beginning of the new Aphyllophoroid fungi list compilation, 689 species in the Sverdlovsk region were known. Totally nowadays, fungal collection in the SVER herbarium contains about 72000 specimens, where 19530 specimens were collected in the Sverdlovsk region, including about 11400 specimens of Aphyllophoroid fungi.

Taxonomical structure of Aphyllophoroid fungi mycota of Sverdlovsk region

According to literature and examined herbarium specimens, Sverdlovsk region harbors 908 species of Aphyllophoroid fungi (including «Heterobasidiales»). «Agaricoid» genera, like *Crepidotus*, *Lentinus*, *Lentinellus*, *Panus*, *Pleurotus*, *Phyllotopsis* (pleurotoid biomorph) are excluded. Endemic taxons for the region are absents. According to the situation in the continental place of the boreal zone, the «northern (boreal) genera», for the region like *Antrodia*, *Hyphodontia*, *Peniophora*, *Phlebia*, *Postia*, *Skeletocutis*, *Typhula* dominates in a list of the richest genera (Tab. 1), whereas the role of the «southern (temperate) genera», like *Antrodiella*, *Clavaria*, *Clavulinopsis*, *Hypochnicium*, *Inonotus*, *Ramaria*, *Ramariopsis* is also important. The last ones are the richest in the southern part of the region according to the situation of the forest-steppe (southern provinces **KK** and **PI**) and hemiboreal subzone (**P** province) in the region and also due to distribution of the rich mountain-temperate forests of Bashkiria Republic on the western (European) macro slope of the Southern Urals (Tab. 1). All in all, this equilibrium of the zonal elements reflects the situation of the Sverdlovsk region on the main biogeographical border between the boreal and temperate zones, as well as European and Asian mega mycobiotas (Stepanova-Kartavenko (1967), Stepanova (1971), Mukhin (1993), Ushakova (2002), Shiryayev (2006)).

Table 1

Richest genera of the Sverdlovsk region Aphylloporoid fungi mycota

Genera	The number of species	% of total
<i>Typhula</i>	31	3.4
<i>Ramaria</i>	30	3.3
<i>Phellinus s.lato</i>	26	2.8
<i>Hyphodontia s.lato</i>	25	2.7
<i>Tomentella</i>	24	2.6
<i>Postia</i>	20	1.8
<i>Exobasidium</i>	19	2.1
<i>Clavaria</i>	18	2.0
<i>Peniophora</i>	18	2.0
<i>Phlebia</i>	18	1.5
<i>Trechispora</i>	15	1.3
<i>Antrodia</i>	14	1.5
<i>Polyporus</i>	13	1.4
<i>Steccherinum</i>	13	1.4
<i>Tremella</i>	13	1.4
<i>Tulasnella</i>	13	1.4
<i>Botryobasidium</i>	11	1.2
<i>Hypochnicium</i>	10	1.1
Total:	331	36.0

Distribution of Aphylloporoid fungi in biogeographical provinces of Sverdlovsk region

One of the purposes of drawing up of the list, with an accent on presence of species at separate biogeographical provinces and nature protected territories of the region, is the fact of impossibility of the high-grade analysis of a variety, distribution and ecology of fungi is, and also impossibility to make conclusions about a rarity, the reasons of a fungal rarity and landscape preferendums. The latter one in particular, creates serious problems in recommending taxons species for inclusion in the Regional Red Book.

The number of species recorded in the 3 biogeographical divisions and 14 provinces of the Sverdlovsk region is presented in Table 2. It should be noted that a low number of provincial records, especially comparing with neighboring provinces, often indicates less intensive researching activity and not actual adverse conditions for fungal growth.

Approximately 80% of species have been collected on the Ural Mountain Range, and 18% of species are registered only here, however there are no specific species meeting in all «mountain» provinces. For flat areas of the Western Siberia 63% of species from the list, including only 4% of specific species (are noted exclusively here) are marked, and common species for all «Siberian» provinces are absent. East-European hills has similar

number of species with the West Siberian plain (61%), however their greater part meets only here and in a mountain part of the region (24%), not included in the «Siberian» provinces. About 4% species are specific to the East-European hills, which probably tell about growth of the mixed broad-leaved forests here.

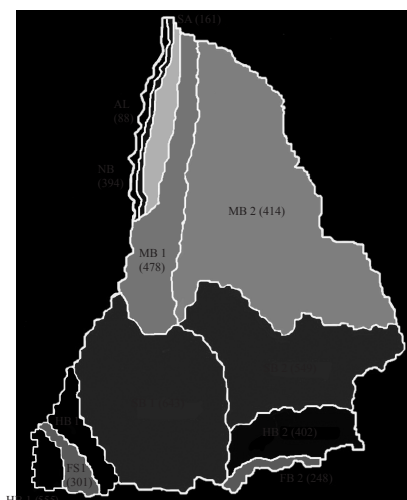
Table 2

The number of species in the biogeographical provinces of Sverdlovsk region

Province	The number of species	% of the total	% of species recorded in only one province
P	555	59.8	3.7
KK	301	32.5	-
Cl	578	62.3	4.8
Bp	519	55.9	2.3
PI	459	50.0	1.1
NI	406	43.8	-
Ks	401	43.7	0.1
Nm	326	35.1	-
ST	252	27.2	-
PT	225	24.3	-
Kh	435	46.9	0.5
Is	377	40.6	0.2
OU	220	23.7	-
VP	150	16.2	-

The most southern provinces (**P**, **Cl**, **Bp** and **PI**) are the richest (about 50% of the total list). These areas have the longest history of fungal investigations, and also with the optimal hydrothermal conditions for their growth, in comparison with adjacent provinces (Tab. 2). 12.7% species are met only in one province, and 20.3% in two, thus, only 10.1% species are mentioned for all provinces: *Antrodia serialis*, *Artomyces pyxidatus*, *Auriscalpium vulgare*, *Bjerkandera adusta*, *Clavaria argillacea*, *Clavulina cinerea*, *Cytidia salicina*, *Fomitopsis pinicola*, *Fomes fomentarius*, *Pseudochaete tabacina*, *Hyphoderma setigerum*, *Hyphodontia rimosissima*, *Leptosporomyces galzinii*, *Peniophorella praetermissum*, *Phlebiella sulphurea*, *Piptoporus betulinus*, *Postia caesia*, *Pterula gracilis*, *Pycnoporus cinnabarinus*, *Ramaria abietina*, *Ramaria stricta*, *Ramariopsis kunzei*, *Resinicium bicolor*, *Steccherinum ochraceum*, *Stereum sanguinolentum*, *Thelephora palmata*, *T. terrestris*, *Tomentella ferruginea*, *Trichaptum fuscoviolaceum*, *Typhula setipes*, *T. uncialis*, *Vesiculomyces citrinus*, etc. Except for the least investigated province (**VP**) the quantity of such species will increase up to 15.3%.

About 21% of species are met only in three southwest provinces (**P**, **Cl**, **KK**) – *Clavaria amoenoides*, *Clavulicium delectabile*, *Daedalea quercina*, *Hyphodontia quercina*, *Lenzites warnieri*, *Phellinus contiguous*, *P. robustus*, *Polyporus alveolaris*, *Postia ceriflua*, *Ramaria lutea*, *Steccherinum robustius*, *Tomentella pilosa*, *Tomentellopsis zygodesmoides*, etc. The **Cl** and **P** provinces are characterized by the largest shares of specific



Nature vegetation zones

FS (Forest-steppe) n = 327 (35.6%)

HB (Hemiboreal) n = 645 (70.3%)

SB (Southern Boreal) n = 730 (79.5%)

MB (Middle Boreal) n = 588 (64.0%)

NB (Northern Boreal mountainous) n = 394 (42.9%)

SA (Subalpine) n = 161 (17.5%)

AL (Alpine) n = 88 (9.6%)

Fig. 3. Area division of Sverdlovsk region nature vegetation zones, a rough approximation of the vegetation zones delimitation but with sections (HB 1, HB 2, etc.).

The number after each section code indicates the number of
Aphylophoroid species found in the area.

n = the number of species per zone

species (4.8% and 3.7%, accordingly), and for **KK** specific species are not revealed. All the listed species can be named «southern» for the Sverdlovsk region. The species limited in distribution by the «Siberian» southern provinces (**Bp** and **PI**). Together with the latter the share of «southern» species grows up to 31% (*Albatrellus citrinus*, *Bankera violascens*, *Cantharellus lutescens*, *Clavariadelphus truncatus*, *Craterellus cornucopioides*, *Hydnellum peckii*, *Hyphodontia radula*, *Phellodon connatus*, *Pseudotomentella tristis*, *Ramaria ignicolor*, *R. subdecurrans*, *Ramariopsis pulchella*, *Sarcodon fennicus*, *S. scabripes*, *Sarcodontia crocea*, *Thelephora anthocephala*, *T. penicillata*, *Tomentella cinerascens*, *Tomentella terrestris* etc.). About a half of the list was found out in the **P** (broad-leaved forests) in **Kh** and **Is** middle and northern boreal provinces (53% and 46%, accordingly). Provinces with forest-steppe complexes (**KK** and s-**PI**) include about one third of all species, but only half of them are common for both provinces, that possibly testifies to various genesis of vegetation and mycobiota. So, the first province is characterized by significant proportion of European mesophilous nemoral (temperate) elements which are associated with the broadleaved forests, whereas in the second one, Siberian pine-birch xerophilous communities prevail (Fig. 3).

Species concerning to the «northern» group are collected only in high mountains, northern and adjoining territories of middle taiga (**Kh**, **Is**, **OU** and **VP**) and only 2% of species concern to them (*Botryobasidium ellipsosporum*, *Brevicellicium exile*, *Exidiopsis griseobrunnea*, *Exobasidium angustisporum*, *Hyphoderma incrustatum*, *Datronia scutellata*, *Multiclavula corynoides*, *Phellodon secretus*, *Phlebia tristis*, *Postia persicina*, *Ramariopsis subarctica*, *Typhula chamaemori* etc.).

Habitat types

For each species, a rough classification of the landscape types where it occurs has been made. The habitat and their abbreviations used in this book are defined in Table 3. The grouping is the same as in Kotiranta et al. (2009). *Light* coniferous- and *dark* coniferous forests/mires/fens are separated by the tree species: *light* coniferous forests/mires/fens include *Pinus sylvestris* and/or *Larix sibirica* while dark coniferous forests/mires/fens are dominated by *Picea obovata* and/or *Abies sibirica*.

The biggest number of fungal species were collected in the different forest habitats (787 sp.), in the alpine and cultural 88 and 78, respectively. The poorest habitats were mires and shores (25 and 21 species). The steppe habitats covered only 0.7% of the region, nevertheless, these habitats conclude 68 species.

Table 3

Abbreviations for habitats used in the text

A – Alpine heaths and meadows of the Urals	
Ah	Alpine heaths
Am	Alpine meadows
Ar	Alpine rocks
Aw	Alpine wetlands
C – Cultural habitats	
Cb	Built environment
Cc	Cultivated land
Cd	Seminatural dry grasslands
Ch	Seminatural humid grasslands
Cm	Seminatural mesic grasslands
Cp	Parks, yards and gardens
Cr	Roadsides, railway embankments etc.
Cshi	Grass-herb forest which area unmanaged but strongly influenced by man
Cw	Wooded pastures and meadows
F – Forests	
Fa	Alpine forests Fad – dry and mesic Alpine forests Fam – moist Alpine forests
Fh	Heath forests (age not defined) Fhd – dry heath forests Fhm – mesic heath forests
Fr	Herb-rich forests (age not defined) Frd – dry and mesic herb-rich forests Frm – moist herb-rich forests
Fs	Steppes forests Fsd – dry steppe forests Fsm – mesic steppe forests
Additional elements to any forest types: v – old-growth forests b – burnt forest areas, cl ear cut areas and other young stages of succession	

M – Mires	
Mr	Rich mires Mro – open rich fens Mrl – type of wooded rich fen (usually dominated by light coniferous forests) Mrd – type of wooded rich fen (usually dominated by dark coniferous forests)
Mi	Mires Mio – ombro- and oligotrophic fens Mim – mesotrophic fens
MI	Light coniferous mires Mlo – ombro- and oligotrophic light coniferous fens Mlm – mesotrophic light coniferous fens
Md	Dark coniferous mires Mdo – oligotrophic dark coniferous fens Mdm – eutrophic and mesotrophic dark coniferous fens
R – Rocky habitats	
Rl	Limestone rocks and quarries
Rs	Serpentine rocks and soil
Rg	Granite rocks and soil
S – Shores	
Sl	Lake shores and river banks Slf – shore forests and flooded forests Sll – sandy lake shores and river banks Sllm – meadows on lake shores and river banks Slr – rocky lake shores and river banks Sls – stony lake shores and river banks Slo – open alluvial and shores
ST – Steppes	
	STh – steppe heaths STm – steppe meadows
Additional elements to any steppe types: a – sandy steppes l – saline steppes s – stony steppes	
? – Habitat unknown	

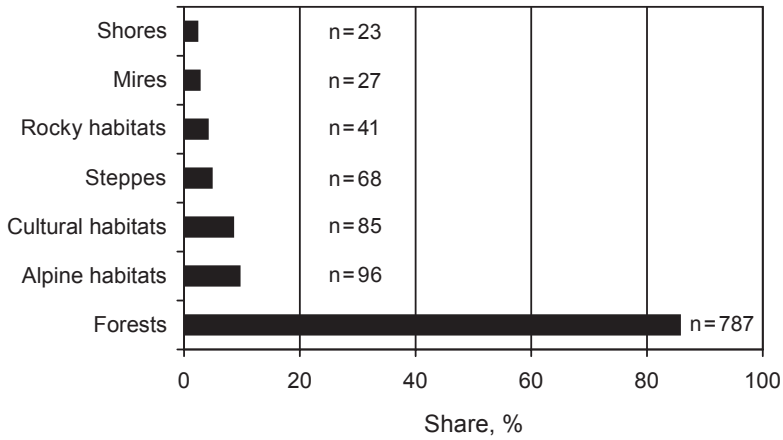


Fig. 4. The number of species in main habitats

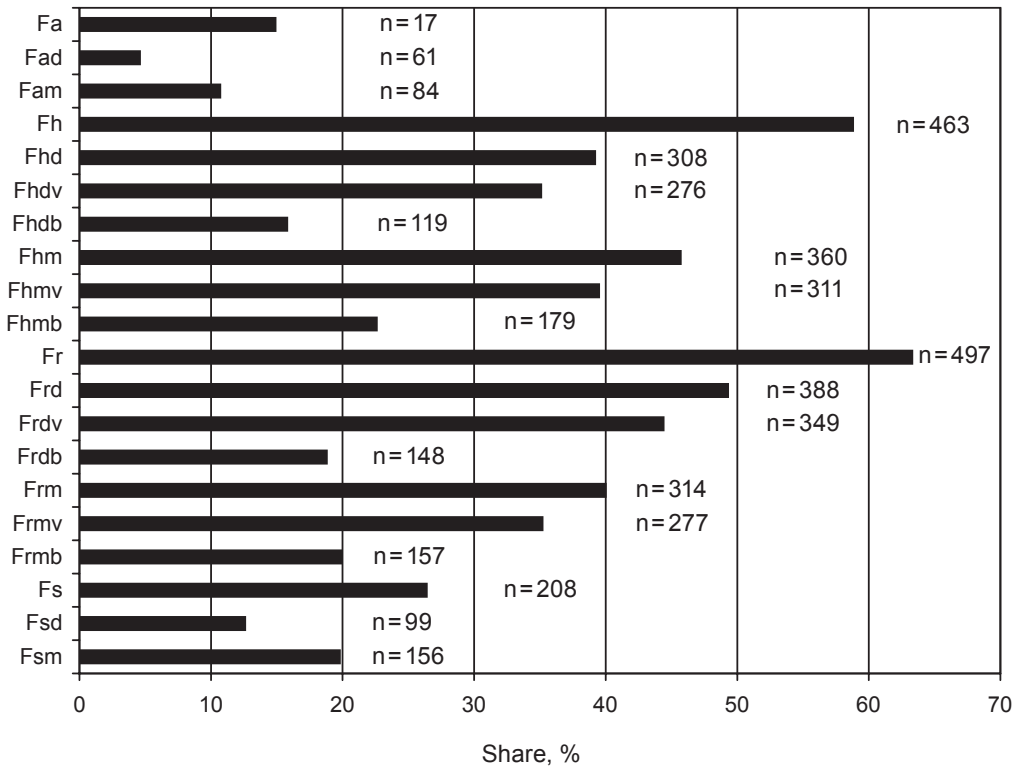


Fig. 5. The number of species in different forests

Evaluation, Classification and Conservation of Aphylloroid fungi in Sverdlovsk region

The eight Aphylloroid species mentioned from the region in Red Book of the Middle Urals (1996) are *Polyporus umbellatus*, *Ganoderma lucidum*, *Hericium coraloides*, *Amylocystis lapponica*, *Daedalea quercina*, *Fomitopsis cajanderi*, *Fomitopsis officinalis*, *Sparassis crispa*. In the new issue of Red Book of the Sverdlovsk region (2008) 12 species are recorded – *Albatrellus ovinus*, *Clavaria zollingeri*, *Clavariadelphus truncatus*, *Climacodon septentrionalis*, *Haploporus odorus*, *Ishnoderma resinotum*, *Onnia tomentosa*, *Polyporus pseudobetulinus*, *Pycnoporellus alboluteus*, *Ramaria rubella*, *Ramariopsis pulchella*, *Rigidoporus crocatus* – but all of these species are new for the regional Red list (see above species from Red Book... (1996)). Fungi from the Red Book of Russian Federation (2008) were also found in the region (*Boletopsis leucomelaena*, *Ganoderma lucidum*, *Grifola frondosa*, *Polyporus umbellatus*, *Sparassis crispa*), as well as «33 threatened fungi in Europe» Bern Convention. Appendix 1 (Dahlberg & Croneborg, 2003) are *Amylocystis lapponica*, *Antrodia albobrunnea*, *Boletopsis grisea*, *Cantharellus melanoxerus*, *Gomphus clavatus*, *Hapalopilus croceus*, *Haploporus odorus*, *Hericium erinaceum*, *Laricifomes officinalis*, *Pycnoporellus alboluteus*, *Skeletocutis odora* (see below check-list).

The official Red Data Books in Russia include few fungi if compared to the large amount of existing fungal species. These red lists are normally not based on clear criteria, and species which are included are mostly large and conspicuous. Moreover, the length of these lists is determined by the administrative officials, not experts of mycology. Naturally the experts have chosen the species, but only a limited, often strictly fixed number land to the lists. On the other hand, the lack of a check-list has hindered the evaluation of all species in the area. In this check-list we used the best available tool to evaluate the threat categories, namely the criteria of IUCN (2001). As far as we know, this is the first time when IUCN criteria have been used in Russia. We also want to stress, that this list is not official, accepted by the officials. However, in our opinion it reflects better the real situation in nature than the earlier red lists and is also comparable with other red lists made in Europe according to the same rules.

To evaluate the size of the population, it was necessary to use some guidelines dealing with «individuals», generation time, uncertainty factor etc. The question about a fungal individual is problematic, but has to be solved before the evaluation of the population size can be made. For wood-inhabiting fungi every detected fruitbody in one trunk was counted as *two* individuals (genotypes). The generation time for wood-inhabiting fungi was evaluated on the basis of the substrate (host tree) species. Fungi which decompose slowly decaying tree species like pines (*Pinus* spp.), larch (*Larix sibirica*) or oaks (*Quercus robur*) the length of the time for evaluation (3 generations) is 50 years, for *Abies*, *Picea*, *Ulmus*, *Tilia*, *Fraxinus*, *Acer*, *Populus*, large *Salix*, 30 years, and for *Alnus*, *Betula*, *Corylus*, *Salix*, *Prunus*, *Sorbus* and species on smaller branches 20 years. For mycorrhizal fungi three generations last 50 years like grass-land fungi, and litter-fungi 20 years. To evaluate the population size, coefficients were used. Easily detectable, perennial, pileate species have the coefficient 3, and small, annual, resupinate species 10 or more. Species which are not easily observable, or grow in poorly investigated habitats,

the coefficient is much higher (15–100), or even more for some inconspicuous, more or less invisible corticioids (up to 600). So, each species have a coefficient which varies between 3 and 600. The size of the population can then be calculated: the known number of inhabited localities (e.g. 7) is multiplied by the coefficient of the species (e.g.10) and with two (number of individuals/locality). Thus, the population size of the example species is: $7 \times 10 \times 2 = 140$ individuals.

The habitats of most of the threatened species are different kinds of forests. This is natural, since most of the species are wood-decaying fungi. Therefore the decrease of decaying wood in forests is also the greatest threat for the Aphyllophoroid fungi. Now, 6.7% of the area of Sverdlovsk region is protected, but according to the threat evaluation it seems that it is not enough.

Species which are evaluated to be critically endangered (CR) or endangered (EN) are very rare with a restricted or fragmented distribution area, and the populations are small. For these species especially the criteria B, C and D have been used and in some cases also A, when it is obvious that the habitat loss has already decreased the size of the population or will do it in the future (three generations). Vulnerable (VU) species very often grow in old-growth forests and those have decreased and the decline of these habitats will most probably continue also in the future (criteria A). Vulnerable species are often also rare with a restricted distribution area and the criteria B, C and D are also used. Table 4 show the brief definitions of IUCN Red List Categories, and distribution of 908 fungal species by them in Sverdlovsk region (fig. 6) mentioned in this book.

For the criteria used for threat categories, the reader is referred to the IUCN (2001) or website at: <http://www.iucn.org/themes/ssc/red-lists.htm>

Table 4

Brief definitions of the Red List Categories (according IUCN, 2001)

<i>Red listed categories</i>
<p>RE – Regionally Extinct A taxon is <i>Regionally Extinct</i> when there is no reasonable doubt that the last individual potentially capable of reproduction within the country (region) has died or disappeared from the country (region).</p>
<p>CR – Critically Endangered A taxon is <i>Critically Endangered</i> when available scientific evidence indicates that it meets any of the criteria A to E, and it is therefore considered to be facing an extremely high risk of extinction in the wild.</p>
<p>EN – Endangered A taxon is <i>Endangered</i> when available scientific evidence indicates that it meets any of the criteria A to E, and it is therefore considered to be facing a very high risk of extinction in the wild.</p>
<p>VU – Vulnerable A taxon is <i>Vulnerable</i> when available scientific evidence indicates that it meets any of the criteria A to E, and it is therefore considered to be facing a high risk of extinction in the wild.</p>

<p>NT – Near Threatened Taxa which have been assessed against the criteria but do not qualify for <i>Critically Endangered</i>, <i>Endangered</i> or <i>Vulnerable</i> now, but are close to qualifying for or are likely to become <i>Vulnerable</i> in the near future. Also taxa are included here which are the focus of a continuing taxon-specific or habitat-specific conservation programme targeted towards the taxon in question, the cessation of which would result in the taxon qualifying for one of the threatened categories above within a period of five years. Such conservation programmes must be described as part of the documentation requirements.</p>
<p>DD – Data Deficient A taxon is <i>Data Deficient</i> when there is inadequate information to make a direct, or indirect, assessment of its risk of extinction based on its distribution and/or population status.</p>
<p><i>Other categories (species not red-listed)</i></p>
<p>LC – Least Concern A taxon is <i>Least Concern</i> when it has been evaluated against the criteria and does not qualify for Critically Endangered, Endangered, Vulnerable or Near Threatened. Widespread and abundant taxa are included in this category.</p>
<p>NE – Not Evaluated A taxon is <i>Not Evaluated</i> when it has not yet been evaluated against the criteria.</p>
<p>NA – Not Applicable A taxon is <i>Not Applicable</i> when it is deemed to be ineligible for assessment at a regional level. A taxon may be NA because it is not a wild population or not within its natural range in the region, or because it is a vagrant to the region. It may also be NA because... the taxon may be classified at a lower taxonomic level than considered eligible by the Red List authority (see IUCN 2001 for the further details).</p>

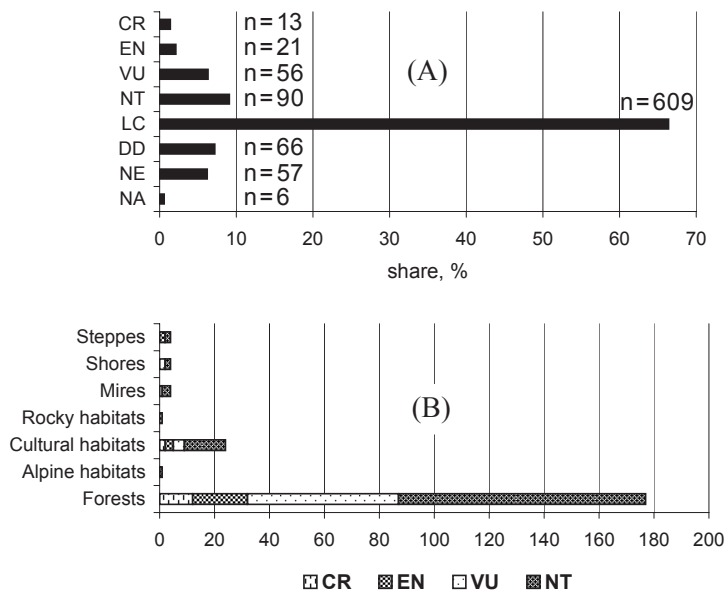


Fig. 6. (A) The share (and the number) of species in different IUCN categories, and (B) the number of threatened (CR-VU) and near threatened (NT) species in different habitats of Sverdlovsk region.

Format of the list

All ambiguous species, as well as dubious and confused names which weren't confirmed by specimens in studied herbariums & collections were excluded from this work.

The authors and nomenclature of plant species names gave according Gorchakovki et al. (1994). In this paper the epithets «maple» and «*Acer*» refer to *Acer platanoides*, «fir» or «*Abies*» to *Abies sibirica*, «grey alder» and «*Alnus*» to *Alnus incana*, «black alder» to *Alnus glutinosa*, «spruce» and «*Picea*» to *Picea obovata*, «pine» and «*Pinus*» to *Pinus sylvestris*, «Siberian pine» to *Pinus sibirica*, «birch» to *Betula pendula* or *B. pubescens*, «aspen» or «*Populus*» to *Populus tremula*, «linden» or «*Tilia*» to *Tilia cordata*, «elm» or «*Ulmus*» to *Ulmus glabra* or *U. laevis*, «larch» or «*Larix*» to *Larix sibirica*, «juniper» and «*Juniperus*» to *Juniperus communis*, «rowan» and «*Sorbus*» to *Sorbus aucuparia*, «oak» or «*Quercus*» to *Quercus robur*, «hazel» or «*Corylus*» to *Corylus avellana*, respectively.

The species in the list are arranged alphabetically.

The title-line includes the preferred Latin name (according IndexFungorum). * = new for the region. [A supplementary line may give one or more widely used synonyms].

The second line gives the Red List status (according IUCN, **Table 4**); ¹ – species in Bern Convention, Appendix 1; ² – species in the Red Book of Russian Federation (2008)) • distribution through the nature vegetation zones (see part: **Geographical and natural description of Sverdlovsk region, Fig. 3**), zone(s) are underlined if species occur only at artificial, strange (non native, man-made) substrates • main habitats (**Table 3**).

The third line includes the way of nutrition, type of substrates (dead wood, litter, mosses etc.) and Latin names of woods and grasses & herbs substrates (*Abies*, *Populus* or *Aconitum*, *Melica* etc.). If the species are wide distributed and common it is also mentioned.

Distribution in each biogeographical province (used acronyms (Figs. 1 & 2)) made in following scheme: **1.** Cited literature (published information on specimens, see References); **2.** If information about specimen wasn't published the following description is used: area, locality (coordinates see in Appendix 2), the host(s), substrate(s) and collector(s): if specimen was collected and detected by the same person – only family is mentioned, but if there were different people – collector mentions as *coll.*, and determinator as *det.* In the text Parmasto refers to Erast Parmasto if not otherwise stated.

Later, herbarium number of specimen (studied materials depositing in the SVER(F) – mycological part of herbarium, LE, H, TAA, TU & Herbarium of the Ural State University and also in the personal collections of A.G.Shiryayev (A.S.), N.V.Ushakova (N.U.), I.V.Stavishenko (I.S.) and H.Kotiranta (H.K.)).

CHECK-LIST OF SPECIES

A

Abortiporus biennis (Bull.) Singer

CR B1; D1 • HB, SB • Fhmv, Frdv

On *Alnus*, *Betula*, *Quercus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **CI:** Stepanova (1971); Shalya area, Shigaevo, old-growth mesic heath *Abies*-dominated mesic forest, on *Betula pendula*, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* 1.IX.1997 (SVER(F) 48610).

****Albatrellus citrinus*** Ryman

EN A2c+3c; D1 • HB • Frd

On calcareous soil.

CI: Nizhneserginsk area, «Oleni Ruchii» Nat. Park., on calcareous soil in *Abies*-dominated forest, 3.IX.2000 *Shiryayev* (SVER(F) 46825); Shalya area, Chusovoy, slope to Chusovaya river, on calcareous soil in *Picea*, *Pinus*-dominated old-growth forest, 23.VIII.1955 coll. *Stepanova*, det. *Shiryayev* (SVER(F) 58221).

Albatrellus confluens (Alb. & Schwein.) Kotl. & Pouzar

LC • SB, MB • Fhm, Fhd

On soil in *Abies*–*Picea* forests.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev & Stavishenko (2008). **Bp:** Verkh Pyshma area, Iset station, «Chertovo Gorodische», on soil in dry old-growth heath spruce dominated forest with *Tilia*, *Sorbus*, 3.IX.1998 Shiryayev (SVER(F) 49370). **PI:** Shiryayev (2007c). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., old-growth mixed forest with *Pinus sibirica*, *Abies*, *Pinus*, *Betula*, *Populus*, *Sorbus*, *Juniperus sibirica*, on soil, 13.IX.1949 Stepanova (SVER(F) 57834); Tomilin (1965); Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Polunochnoje, on soil in mesic *Picea*-dominated forest, 18.VIII.1969 Kazantseva (SVER(F) 46473). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971).

****Albatrellus cristatus*** (Schaeff. & Fr.) Kotl. & Pouzar

EN A3c+4c; D1 • HB • Fhm

On soil in broad-leaved forests.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on soil in old-growth mesic forest with *Pinus*, *Quercus*, *Tilia*, *Ulmus*, *Sorbus*, *Rhamnus*, 20.IX.1998 Shiryayev (SVER(F) 57331). **Cl:** Shalya area, Sylva, old-growth mixed forest with *Abies*, *Tilia*, *Ulmus*, *Sorbus*, 4.IX.1975 coll. Stepanova, det. Shiryayev (SVER(F) 59549).

Albatrellus ovinus (Schaeff.) Kotl. & Pouzar

VU A2c+3c+4c; C1+2a(i) • HB, SB, MB • Fhd, Fhm, Fhmv, Frm

On soil in *Abies-Picea* forests. Widely spread.

P: Achit area, Korzunovka, on soil in *Abies*-dominated forest, 20.VIII.1968 Kazantseva (SVER(F) 47739). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Red Book... (2008). **Bp:** Stepanova (1971); Verkh Pyshma area, Iset station, «Chertovo Gorodische», dry herb-rich spruce-pine forest, on soil, 9.IX.2002 Ushakova 1116; Red Book... (2008); Shiryayev & Stavishenko (2008). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2007c); Red Book... (2008). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Red Book... (2008). **Kh:** Tomilin (1965). **Is:** Stepanova (1971).

Albatrellus subrubescens (Murrill) Pouzar

VU A2c; C2a(i) • HB, SB • Fhd

On soil in *Pinus* forests.

Cl: Nizhneserginsk area, SW of Mikhailovsk town, Urmikeevo, managed dry *Pinus*-dominated forest, on sandy soil, 8.X.1999 Shiryayev (SVER(F) 50892). **PI:** Shiryayev (2007c).

****Albatrellus syringae*** (Parmasto) Pouzar

LC • HB, MB • Cp, Frd

Mostly on soil in yards, graving yards and dumping places.

P: Achit area, Osyp, on soil, herbaceous slope of Bisert river, 25.VIII.1976 coll. *Stepanova*, det. *Shiryayev* (SVER(F) 49861). **Bp:** Ekaterinburg, Botanical Garden RAS, rubbish place, on soil intermixed with garbage, 19.IX.2007 *Shiryayev* (SVER(F) 51135). **ST:** Verkhoturye, graving yard, 1.VIII.1970 coll. *Kazantseva*, det. *Shiryayev* (SVER(F) 54424). **Is:** Ivdel area, Polunochnoje, on soil in destroyed village, 18.VIII.2005 *Shiryayev* (SVER(F) 57082).

Aleurodiscus amorphus Rabenh.

LC • HB, SB, MB • Cp, Fhm

On *Abies* & *Picea*.

P: *Stepanova* (1971); Achit area, Korzunovka, managed *Abies*–*Picea* forest, on *Abies* twigs, 16.IX.1977 *Stepanova* (SVER(F) 47857). **Cl:** *Stepanova*–*Kartavenko* (1967); *Stepanova* (1971); Prigorod area, Visim Nat. Res., Galashki, old-growth spruce-pine dominates mesic forest, on trunk of *Abies*, 17.IX.1994 *Kotiranta 11800*; *Shiryayev* & *Stavishenko* (2008). **Bp:** *Demidova* (1963); *Stepanova*–*Kartavenko* (1967); *Stepanova* (1971); *Stepanova* & *Mukhin* (1979); Nevjansk area, Tavatuy Lake surrounds, on spruce with *Tremella mycetophiloides*, 20.VIII.1970 *Sirko* (SVER(F) 51519). **NI:** *Mukhin* (1993). **PT:** *Stepanova* (1971). **Kh:** *Stepanova*–*Kartavenko* (1967); *Stepanova* (1971). **Is:** *Stepanova* (1971); Ivdel area, Ivdel rail way station, on *Picea* branch, 30.VIII.1969 *Kazantseva* (SVER(F) 53164).

Aleurodiscus cerussatus (Bres.) Höhn. & Litsch.

LC • HB, SB, MB • Fhmv, Frv

On deciduous trees, like *Acer*, *Alnus*, *Populus*, *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 15.VIII.1945 coll. *Solovjev*, det. *Stepanova* (SVER(F) 47590). **Cl:** *Stepanova* (1971); Prigorod area, Visim Nat. Res., on trunk of aspen in *Picea*-dominated forest, 12.VIII.1952 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 59607). **Bp:** Ekaterinburg, Botanical Garden RAS, on fallen branch of *Acer platanoides*, 4.X.2008 coll. *Almanaite*, det. *Stavishenko* (SVER(F) 50760). **Is:** Severouralsk area, Vagran river valley, on fallen branch of *Alnus incana*, 6.IX.2004 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58347).

Aleurodiscus disciformis (DC.) Pat.

LC • HB, SB, MB • Frd

On living *Acer*, *Quercus*, *Tilia*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on living branch of oak, 5.IX.1978 coll. *Stepanova*, det. *Almanaite* (SVER(F) 47952). **Cl:** *Stepanova*–*Kartavenko* (1967); *Stepanova* (1971). **Bp:** *Stepanova*–*Kartavenko* (1967); *Stepanova* (1971); *Stepanova* & *Mukhin* (1979); Polevskoy area, Kasli-Sisert mnt. range, W slope of Khrapovskaya mnt., on *Tilia*, 24.VIII.2005 coll. *Vasilevsky*, det. *Almanaite* (SVER(F) 56124). **ST:** *Stepanova*–*Kartavenko* (1967); *Stepanova* (1971).

Aleurodiscus lividoeruleus (P. Karst.) Lemke

Syn. *Acanthophysellum lividoeruleum* (P. Karst.) Parmasto, *Corticium lividoeruleum* P. Karst.

LC • MB, NB • Fhm

On *Picea*.

Kh: Stepanova (1971); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 12.VIII.2005 *Kotiranta 20804*. **Is:** Stepanova (1971); Ivdel area, W slope of Chernaja Parma mnt., old-growth *Picea*- and *Pinus sibirica*-dominated forest, on branch of spruce, 6.VIII.1971 coll. *Stepanova*, det. *Parmasto* (SVER(F) 51882).

Amaurodon cyaneus (Wakef.) Kõljalg & K.H. Larss.

CR B1; D1 • HB • Fhmv

On *Corylus*.

P: Krasnoufimsk area, Chernaya Rechka, old-growth forest with *Abies*, *Pinus*, *Tilia*, *Acer*, *Ulmus*, *Populus*, *Corylus*, on fallen branch of hazel, 17.IX.1973 coll. *Sirko*, det. *Stepanova* (SVER(F) 44062 – part in TU); Shiryaev (2008c).

Amaurodon mustialaensis (P.Karst.) Kõljalg & K.H. Larss.

CR B1+2ab(iii); D1 • HB • Frv, Fhmv

On *Quercus*.

P: Krasnoufimsk area, Garevka, old-growth mixed conifer-broadleaved forest with *Pinus*, *Quercus*, *Abies*, *Ulmus*, *Corylus*, on decaying trunk of oak, 9.IX.1977 coll. *Sirko*, det. *Stepanova* (SVER(F) 43912 – part in TU); Shiryaev (2008c).

Amaurodon viridis (Alb. & Schwein.: Fr.) J. Schröt.

VU B1+2; D1 • HB • Fhm, Fhmv

On *Abies*, *Populus nigra*, *Sorbus*, *Tilia*.

P: Shiryaev (2008c). **Cl:** Shiryaev & Stavishenko (2008); Shiryaev (2008c). **PI:** Shiryaev (2007c, 2008c).

Amphinema byssoides (Pers.) J. Erikss.

LC • FS, HB, SB, MB • Fhd, Fhmv

On *Abies*, *Picea*, *Pinus*, *Alnus*, *Populus*. Widely spread and common.

P: Krasnoufimsk area, Chernaya Rechka, managed *Abies*-dominated herb-rich forest, on branch of fir, 14.VIII.2006 coll. *Shiryaev*, det. *Mukhin* (SVER(F) 56946).

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin & Ushakova (2001); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on decorticated aspen, together with *Hyphodontia rimosissima*, *Antrodia pulvinascens*, 20.VIII.2002 *Kotiranta 19719*; Revda

area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on small corticated pine; also *Leptosporomyces galzinii*, 26.VIII.2002 *Kotiranta 19843*. **Bp**: Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus-dominated*, partly relatively luxuriant, fairly old forest, on fallen pine, 13.VIII.1993 *Kotiranta 11021*. **PI**: Mukhin (1993); Mukhin et al. (2003). **NI**: Mukhin (1993). **ST**: Stepanova (1971). **Kh**: Stepanova (1971). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Ivdel area, Ous, on decorticated branch of *Alnus incana*, 7.VIII.2007 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 58977).

Amylocorticiium cebennense (Bourdot) Pouzar

LC • FS, HB, SB, MB • Fhm, Fhd, Fsm

On *Picea* & *Pinus*.

CI: Stepanova (1971); *Shiryayev* & Stavishenko (2008). **Bp**: Sisert area, Biological station USU, managed *Pinus-dominated* dry forest, on fallen branch of on pine, 3.VIII.1994 *Mukhin* (SVER(F) 48105). **PI**: Tugulym area, «Pripyshminsk Bory» Nat. Park, «Bakhmetskoje Bog», Abramov Isl., on fallen trunk of *Pinus sibirica*, 11.VIII.1955 *Stepanova* (SVER(F) 52527). **Kh**: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., old-growth mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 12.VIII.2005 *Kotiranta 20921*. **OU**: Ivdel area, Ous, on fallen branches of pine and spruce, 7.VIII.2007 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 56192 & 56193).

Amylocorticiium laceratum (Litsch.) Hjortstam & Ryvar den

Syn. *Athelopsis lacerata* (Litsch.) J. Erikss. & Ryvar den

NT C2a(i) • SB, MB • Fhm, Frd

On *Larix* & *Pinus*.

CI: *Shiryayev* & Stavishenko (2008). **Kh**: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of Siberian pine, 12.VIII.2005 *Kotiranta 20888*.

****Amylocorticiium suaveolens*** Parmasto

LC • HB, SB • Fhm, Frd

On *Pinus*.

CI: Shalya area, Sylva, old-growth *Pinus-dominated* mesic forest with *Tilia*, *Ulmus*, *Sorbus aucuparia*, on trunk of pine, 27.VIII.1969 coll. *Stepanova*, det. *Parmasto* (SVER(F) 47485). **Nm**: Krasnouralsk, Dachny, managed pine forest, on fallen pine branch, 15.VIII.1995 coll. *Bryzgalov*, det. *Mukhin* (SVER(F) 54683).

Amylocorticiium subincarnatum (Peck) Pouzar

VU A2c; C2a(i); D2 • HB, SB, MB • Frd, Fhmv

On *Abies* & *Picea*

P: Achit area, Korzunovka, old-growth *Abies*-dominated herb-rich forest with *Pinus*, *Tilia*, *Ulmus*, *Sorbus*, on trunk of fir, 21.VIII.1957 *Stepanova* (SVER(F) 50627). **Cl:** Shiryayev & Stavishenko (2008). **PI:** Mukhin (1993); Mukhin et al. (2003). **Is:** Ivdel area, SW slope of Chernaja Parma mnt., old-growth *Picea–Pinus sibirica*-dominated mesic forest, on fallen spruce branch, 20.VIII.1957 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 55061).

****Amylocorticium subsulphureum*** (P. Karst.) Pouzar

DD • HB, SB • Frdv, Fhmv

On *Pinus*.

Cl: Nizhneserginsk area, «Mikhailovsk Zavod», old-growth forest with *Abies*, *Pinus*, *Tilia*, *Sorbus*, *Populus*, on trunk of pine, 20.IX.1970 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 57439). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, Abram island, virgin forest with *Pinus*, *Populus*, *Betula*, *Tilia*, on fallen branch of pine, 13.VIII.1972 coll. *Sirko*, det. *Mukhin* (SVER(F) 54410).

Amylocystis lapponica (Romell) Bondartsev & Singer

¹VU A2c; C2a(i) • SB, MB, NB • Fhmv

On *Abies* & *Picea*.

Cl: *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Red Book...* (1996); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, old-growth *Picea*-dominated forest, on trunk of spruce, 6.IX.2004 *Ushakova 1227*; *Stavishenko* (2000, 2006); Prigorod area, Baronskoye, old-growth *Picea*-dominated herb-rich forest, on trunk of spruce, 4.VIII.2009 *Stavishenko 715*. **Kh:** Karpinsk area, south-eastern slope of Konzhakov Kamen mnt., dark-coniferous virgin taiga with *Pinus sibirica*, *Picea*, *Betula* spp., *Salix* spp., *Alnus incana*, on fallen trunk of spruce, 30.VIII.1996 *Shiryayev* (SVER(F) 57960); *ibid*, mesic heath forest with *Picea*, *Pinus sibirica*, *Betula*, *Salix* spp., *Alnus incana*, on spruce trunk, 10.VIII.1997 *Ushakova 222*; *Stavishenko* (2002, 2003). **Is:** Ivdel area, SW slope of Chernaja Parma mnt., old-growth coniferous forest, on trunk of spruce, 20.VIII.1957 coll. *Storozheva*, det. *Mukhin* (SVER(F) 59225); Severouralsk area, W slope of Kumba mnt., old-growth *Picea–Pinus sibirica*-dominated mesic forest, on fallen fir trunk, 7.IX.2004 *Shiryayev* (SVER(F) 59077). **OU:** Ivdel area, Ous, on *Picea*, 7.VIII.2007 *Shiryayev* (SVER(F) 58701).

Amylostereum areolatum (Chaillet) Boidin

Syn. *Stereum areolatum* (Chaillet) Fr.

DD • SB, MB • Fhm, Frdv

On *Abies* & *Picea*.

Bp: *Stepanova* & *Mukhin* (1979). **Ks:** Kachkanar area, Kachkanar mnt., old-growth herb-rich coniferous forest, on trunk of *Abies*, 9.IX.1969 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 54538). **Kh:** *Stepanova* (1971).

Amylostereum chailletii (Pers.) BoidinSyn. *Stereum chailletii* (Pers.) Fr.

LC • SB, MB • Fhm

On *Picea*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, old-growth *Picea*-dominated forest, on trunk of spruce, 17.IX.1994 *Kotiranta* 11832; Shiryayev & Stavishenko (2008). **Ni:** Mukhin (1993). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta* 20923. **Is:** Stepanova (1971).

Amylostereum laevigatum (Fr.) BoidinSyn. *Peniophora laevigata* (Fr.) Bres.

NE • SB, MB • Fhm, Frd

On *Abies* & *Juniperus*.

Cl: Nizhneserginsk area, 7 km S of Nizhniye Sergi town, *Abies*-dominated mesic old-growth forest with *Pinus*, *Betula* spp., *Tilia*, *Frangula*, on fir trunk, 7.IX.2004 coll. *Ushakova*, det. *Mukhin* (SVER(F) 57458). **Bp:** Stepanova (1971); Nevjansk area, S coast of Tavatuy Lake, *Picea*-dominated dry old-growth forest with *Pinus*, *Betula*, *Tilia*, *Sorbus*, *Juniperus*, on rotten branch of juniper, 9.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57648). **Kh:** Stepanova (1971). **Is:** Stepanova (1971); Ivdel area, Polunochnoje, W slope of Chernaja Parma mnt., old-growth coniferous forest, on branch of *Juniperus*, 18.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 59861).

Amyloxenasma grisellum (Bourdot) Hjortstam & RyvardenSyn. *Corticium grisellum* Bourdot

NE • HB • Fhm, Frd

On *Abies* & *Picea*.

P: Stepanova (1971); Krasnoufimsk area, Chernaya Rechka, old-growth mesic conifer-broadleaved forest, on trunk of spruce, 14.VIII.2005 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 58731).

****Anomoloma albolutescens*** (Romell) Niemelä & K.H. Larsson

CR B1+2a(i)b(iii); C2a(i); D1 • MB • FhmV

On *Picea*.

Kh: Karpinsk area, Konzhakovsky Kamen mnt., middle taiga, mesic old-growth heath forest with *Picea*, *Pinus sibirica*, *Betula*, *Salix* spp., *Alnus*, on spruce trunk, 10.VIII.1997 coll. *Ushakova*, det. *Stavishenko* (SVER(F) 52652).

Anomoloma myceliosum (Peck) Niemelä & K.H. Larss.Syn. *Anomoporia myceliosa* (Peck) Pouzar

VU C1+2a(i) • SB, MB • Fhmv

On *Picea* & *Pinus*.

Cl: Stavishenko (2006). **Kh:** Severouralsk area, Krivinskaya mnt., *Abies*-dominated old-growth forest with *Populus*, on decorticated pine, 12.IX.1961 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 49748).

Anomoporia bombycina (Fr.) Pouzar

Syn. *Fibuloporia bombycina* (Fr.) Bondartsev & Singer ex Bondartsev

DD • HB, SB • Fhmv

On *Picea*.

P: *Stepanova* (1971). **Cl:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Bp:** *Stepanova* (1971). **PI:** *Mukin et al.* (2003); Tugulym area, «Pripyshminsk Bory» Nat. Park, Troshkovo, mesic heath forest with *Pinus*, *Picea*, *Tilia*, *Betula*, *Sorbus*, on fallen spruce trunk, 9.IX.2001 *Ushakova* 844.

Anomoporia vesiculosa Y.C. Dai & Niemelä

DD • SB • Fhd

On *Pinus*.

Bp: Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on decorticated small pine, together with *Skeletocutis kuehneri*, 3.VIII.1995 *Kotiranta* 11966; *Kotiranta et al.* (2007).

Antrodia albida (Fr.) Donk

Syn. *Trametes albida* (Fr.) Fr., *Coriolellus serpens* (Fr.) Bondartsev

NT A2c+3c+4c; C2a(i) • HB, SB, MB • Fhmv, Sif

On *Populus*.

P: Krasnoufimsk area, Ufa river valley, on fallen branch of *Populus nigra*, 20.VIII.1969 coll. *Sirko*, det. *Stavishenko* (SVER(F) 55314). **Cl:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **PI:** *Stepanova-Kartavenko* (1967), *Stepanova* (1971). **NI:** *Mukhin* (1993). **Kh:** *Stavishenko* (2003) .

Antrodia albobrunnea (Rom.) Ryv.

¹**VU** A2c+4c; C1+2a(i) • HB, SB • Fhdv, Fhmv

On *Picea* & *Pinus*.

Cl: Revda area, Homutovka, on trunk of spruce, 11.IX.1999 *Ushakova* 149b; *Kotiranta et al.* (2007). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on decorticated pine trunk, 23.VIII.1999 *Ushakova* 1035; *Kotiranta et al.* (2007). **PI:** Tugulym Area, «Pripyshminsk Bory» Nat. Park, Abramov Isl., on spruce, 15.VIII.1999 *Ushakova* 862; *Mukhin et al.* (2003); *Kotiranta et al.* (2007).

Antrodia crassa (P. Karst.) Ryvarden

NT A2c+3c; C2a(i) • HB, SB, MB, NB • Fhd, Fhdv

On *Abies* & *Picea*.

P: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Achit area, Korzunovka, on old-growth *Abies*-dominated forest, on fallen fir, 19.VIII.1977 coll. Stepanova, det. Stavishenko (SVER(F) 56576). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova (1971). **Nm:** Stepanova-Kartavenko (1967). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Antrodia gossypium (Speg.) RyvardenSyn. *Tyromyces destructor* sensu auct., *T. resupinatus* (Bourdot & Galzin) Bondartsev & Singer

LC • SB, MB • Cp, Fhm, Frd

On coniferous trees.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Ekaterinburg, Botanical Garden RAS, on *Cryptomeria japonica* in tropical glasshouses, 7.X.2008 coll. Shiryayev, det. Stavishenko (SVER(F) 57307). **NI:** Stepanova (1971). **ST:** Stepanova-Kartavenko (1967). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova (1971).

Antrodia heteromorpha (Fr.: Fr.) Donk

LC • HB, SB, MB • Fhm, Frdv

On *Abies* & *Picea*.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Stepanova & Mukhin (1979). **PI:** Mukhin et al. (2003). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Konzhakovskiy Kamen mnt., mesic heath forest with *Picea*, *Pinus sibirica*, *Betula*, *Salix* spp., *Alnus*, on fir trunk, 10.VIII.1997 Ushakova 234; Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Antrodia macra (Sommerf.) NiemeläSyn. *Antrodia salicina* (Bres.) Niemelä, *Trametes salicina* Bres.

VU C2a(i) • SB • Fhmv

On *Populus* & *Salix*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on decorticated aspen, 20.VIII.2002 Kotiranta 19721; ibid, on aspen, 6.IX.2004 Ushakova 1188; Kotiranta et al. (2007). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979).

Antrodia malicola (Berk. & M.A. Curtis) DonkSyn. *Coriolellus malicola* (Berk. & M.A. Curtis) Murrill

NE • HB, SB • Fhm, Frd

On *Salix* & *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed mesic *Pinus–Quercus* forest, on fallen branch of oak, 22.VIII.1993 coll. *Bryndina*, det. *Mukhin* (SVER(F) 58850). **Bp:** Stepanova (1971); Sisert area, Biological station USU, Sisert river valley, on decorticated branch of willow, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 59635).

****Antrodia mellita*** Niemelä & Penttilä

DD • HB, SB • Fhmv, Frdv

On *Populus*.

P: Krasnoufimsk area, Ufa river valley, on *Populus nigra*, 2.IX.1967 coll. *Sirko*, det. *Stavishenko* (SVER(F) 50378). **Bp:** Sisert area, Biological station USU, slope to Sisert river valley, on fallen aspen, 28.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 56321).

Antrodia pulvinascens (Pilát) NiemeläSyn. *Antrodia plicata* Niemelä

NT A3c; C2a(i) • SB, MB • Fhmv, Frdv

Mostly on *Populus* and very seldom on *Sorbus*.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix*, decorticated *Sorbus* branch, together with *Phellinus punctatus*, *Irpex lacteus*, *Phlebia rufa*, 19.VIII.2002 *Kotiranta 19668*; *ibid.*, on decorticated aspen, together with *Steccherinum ochraceum*, *Steccherinum fimbriatum*, *Fomitopsis rosea*, *Botryobasidium leave*, 19.VIII.2002 *Kotiranta 19674*; *ibid.*, on decorticated aspen, together with *Amphinema byssoides*, *Hyphodontia rimosissima*, 20.VIII.2002 *Kotiranta 19720*; *ibid.* on decorticated aspen, 20.VIII.2002 *Kotiranta 19741*; *Kotiranta et al.* (2007). **Kh:** Severouralsk area, W slope of Kumba mnt., managed *Picea*-dominated mesic forest with *Pinus sibirica*, *Populus*, *Sorbus*, on fallen trunk of aspen, 28.VIII.2005 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 47974). **Is:** Ivdel area, Polunochnoje, SW slope of Chernaja Parma mnt., old-growth coniferous forest, on trunk of aspen, 20.VIII.1957 coll. *Storozheva*, det. *Mukhin* (SVER(F) 51016).

Antrodia ramentacea (Berk. & Broome) DonkSyn. *Coriolellus subsinuosus* (Bres.) Bondartsev & Singer

NT C1+2a(i) • HB, SB • Fhmv, Frd

On *Pinus*.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Sisert area, Biological station USU, managed, mesic *Pinus*-dominated forest, on pine trunk, 28.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 45706). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, Abram Isl., *Pinus*, *P. sibirica* and *Abies*-dominated dry old-growth forest, on fallen trunk of Siberian pine, 20.IX.2002 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 53416).

Antrodia serialis (Fr.) Donk.

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Fam, Fhd, Fhm, Frd, Fsm

Mostly on coniferous trees like *Abies*, *Larix*, *Picea*, *Pinus*, very seldom on deciduous trees like *Betula*, *Populus*, *Salix*. Widely spread and common.

P: Stepanova (1971). **Cl:** Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, on fallen trunk of spruce, 18.IX.1994 *Kotiranta 11780*; Revda area, Khomutovka, herb-rich polluted forest with *Picea*, *Abies*, *Betula*, *Sorbus*, *Salix* spp., on fallen spruce trunk, 11.VIII.2000 *Ushakova 138a*; Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000); Ekaterinburg, Botanical Garden RAS, on branch of *Padus maackii*, 11.IX.1958 *Stepanova* (SVER(F) 48859); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on decorticated small pine, 30.VIII.1999 *Ushakova 1023*; Verkh Pyshma area, Iset station, «Chertovo Gorodische», on pine, 20.X.2006 *Shiryayev* (SVER(F) 53038). **PI:** Stepanova (1971); Mukhin (1993); Tugulym area, «Pripyshminsk Bory» Nat. Park, Troshkovo, mesic heath forest with *Pinus*, *Picea*, *Tilia*, *Betula*, *Sorbus*, on fallen spruce trunk, 9.IX.2001 *Ushakova 037*; *ibid*, on spruce, 9.IX.2001 *Ushakova 843*; Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Stepanova (1971); Mukhin (1993). **Ks:** Stepanova (1971). **Nm:** Stepanova (1971). **ST:** Stepanova (1971). **PT:** Stepanova (1971). **Kh:** Stepanova (1971); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20911 & 20954*; *ibid*, on decorticated spruce, 12.VIII.2005 *Kotiranta 20962a*. **Is:** Stepanova (1971). **OU:** Stepanova (1971).

Antrodia sinuosa (Fr.) P. Karst.

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Fhd, Fhm, Frd, Fsm

Mostly on conifers like *Abies*, *Picea*, *Pinus*, very seldom on deciduous trees like *Betula* and *Populus*. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **KK:** Demidova (1963). **Cl:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on partly corticated spruce, also *Antrodia xantha*, *Fomitopsis pinicola*, *F. rosea*, *Gloeophyllum abietinum*, *G. sepiarium*, 26.VIII.2002 *Kotiranta 19832*; Prigorod

area, Visim Nat. Res., Galashki, on *Pinus*, 17.IX.1994 *Kotiranta 11783*; Revda area, Khomutovka, on pine, *Ushakova 191b*, Stavishenko (2006); *Kotiranta et al.* (2007). **Bp**: Demidova (1963); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on fallen pine, also *Postia leucomallella*, 13.VIII.1993 *Kotiranta 11014*; *ibid.*, on pine, 11.VIII.1998 *Ushakova 1038*; *ibid.*, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine, felled by *Fomitopsis pinicola*, together with *Hyphodontia spathulata*, *Athelia decipiens*, *Botryobasidium* sp., 25.VIII.2002 *Kotiranta 19785*; Stavishenko (2000); *Kotiranta et al.* (2007). **PI**: Demidova (1963); Mukhin (1993); Mukhin et al. (2003). **NI**: Demidova (1963); Mukhin (1993). **ST**: Demidova (1963). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 20.VIII.1947 *Stepanova (SVER(F) 45951)*; Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20955*. **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Demidova (1963); Stepanova-Kartavenko (1967).

Antrodia variiformis (Peck) Donk

DD • **SB** • Fdmv

On *Abies* & *Pinus*.

Bp: Stavishenko (2006).

Antrodia xantha (Fr.) Ryvarden

LC • **FS**, **HB**, **SB**, **MB**, **NB**, **SA**, **AL** • Cp, Fam, Fhm, Fhmv, Frd, Fsm, Rs, Rg, Slf

Mostly on coniferous trees like *Abies*, *Larix*, *Picea*, *Pinus*, seldom on *Populus*. Widely spread and common.

P: Stepanova (1971). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Revda area, Khomutovka, on *Picea*, VIII.2000 *Ushakova 151 & 154b*; *ibid.*, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on partly corticated spruce, also *Antrodia sinuosa*, *Fomitopsis pinicola*, *F. rosea*, *Gloeophyllum abietinum*, *G. sepiarium*, 26.VIII.2002 *Kotiranta 19833*; Stavishenko (2006); *Kotiranta et al.* (2007). **Bp**: Demidova (1965); Stepanova (1971); Visim Nat. Res., 84 plot, on *Picea*, 17.VIII.1998 *Ushakova 095*; Stavishenko (2000); *Kotiranta et al.* (2007). **PI**: Mukhin (1993); Tugulym area, «Pripyshminsk Bory» Nat. Park, 98 plot, on *Pinus*, 17.VIII.2000 *Ushakova 851*; Mukhin et al. (2003); *Kotiranta et al.* (2007). **NI**: Mukhin (1993). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971).

**Antrodiella americana* Ryvarden & Gilb.

VU D1+2 • **HB**, **SB** • Fhmv, Frdv

On broad-leaved trees with dead fruitbodies of *Pseudochaete tabacina*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on fallen decomposed broad-leaved trunk (possibly *Quercus*), 29.VIII.1998 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 48238). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, on *Sorbus aucuparia* with *Pseudochaete tabacina*, 28.VIII.1977 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 55569).

***Antrodiella citrinella** Niemelä & Ryvarden

NT C2a(i) • SB • Fhmv

On *Abies*, *Picea* which are decayed by *Fomitopsis pinicola*.

Cl: Shalya area, Sylva, old-growth mesic forest, on stump of *Abies* with *Fomitopsis pinicola*, 10.IX.1969 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 49741).

Bp: Nevjansk area, S coast of Tavatuy Lake, old-growth *Picea*-dominated mesic forest, on trunk of spruce, 9.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56828).

***Antrodiella faginea** Vampola & Pouzar

LC • HB, SB • Fhmv

On *Padus* & *Ulmus*.

P: Krasnoufimsk area, Sarana, Ufa river, on fallen elm, 26.VIII.1993 coll. *Bryndina*, det. *Stavishenko* (SVER(F) 52521). **Cl:** Shalya area, Shigaevo, mesic managed deciduous forest with *Alnus*, *Padus*, *Salix*, *Ulmus*, on branch of *Padus*, 30.VIII.1997 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 57449).

Antrodiella foliaceodentata (Nikol.) Gilb. & Ryvarden

Syn. *Irpex foliaceodentatus* Nikol.

NT B2b(ii,iv); C2a(i) • HB, SB • Fhmv, Frdv

On *Betula*, *Populus*, *Quercus*.

P: Krasnoufimsk area, Sarana, mesic old-growth forest, on trunk of oak, 4.IX.1974 *Stepanova* (SVER(F) 45068); *ibid*, on aspen, 15.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 54799). **Cl:** *Stepanova* (1971). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, Abram Isl., on aspen, 15.VIII.1965 coll. *Storozheva*, det. *Stepanova* (SVER(F) 46976); *Mukhin* (1993). **NI:** Irbit area, Yelan', Nitsa river valley, on fallen trunk of birch, 2.VIII.1980 *Stepanova* (SVER(F) 47992).

***Antrodiella pallasii** Renvall, Johann. & Stenlid

LC • NB • Fhm

On *Picea*.

Kh: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on decorticated fallen spruce, 11.VIII.2005 *Kotiranta* 20968.

Antrodiella pallescens (Pilát) Niemelä & MiettinenSyn. *Antrodiella semisupina* (Berk. & M.A. Curtis) Ryvarden**LC** • FS, HB, SB, MB • Cshi, Fhd, Fhm, Frd, SifOn deciduous trees which are often decayed by *Fomes fomentarius*. Widely spread.**Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on corticated birch branch, 19.VIII.2002 *Kotiranta 19683*; Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Picea*, on dead, corticated willow, also *Bjerkandera adusta*, *Trametes pubescens*, *Funalia trogii*, *Daedaleopsis confragosa*, *Irpex lacteus*, *Botryobasidium pruinaum*, *Cytidia salicina*, 26.VIII.2002 *Kotiranta 19802*; Stavishenko (2006); Kotiranta et al. (2007).**Bp:** Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on corticated birch branch, also *Sistotrema brinkmannii*, *Daedaleopsis tricolor*, *Fomes fomentarius*, 27.VIII.2002 *Kotiranta 19860*; Kotiranta et al. (2007).**PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen birch, 20.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 54306); Stavishenko (2003).****Antrodiella parasitica*** Vampola**DD** • SB • FhmOn *Abies*.**Cl:** Shalya area, Shigaevo, old-growth coniferous forest, on trunk of *Abies*, 7.VIII.2007 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 55949).***Antrodiella romellii*** (Donk) Niemelä**LC** • HB, SB • Fhmv, FrdvOn *Alnus*, *Caragana*, *Corylus*.**Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp. dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on corticated *Caragana* branch, 19.VIII.2002 *Kotiranta 19661a*; **P:** Krasnoufimsk area, Sargaja, deciduous mesic old-growth forest, on branch of *Corylus*, 8.IX.1999 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56141). **Cl:** Kotiranta et al. (2007). **Bp:** Sisert area, Biological Station USU, managed *Pinus*-dominated herb rich forest, on fallen branch of *Alnus incana*, 26.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 57712).***Antrodiella serpula*** (P. Karst.) Spirin & NiemeläSyn. *Antrodiella hoehnelii* (Bres.) Niemelä**LC** • HB, SB • Fhm, Frd

On *Alnus*, *Betula*, *Sorbus* which is normally decayed by *Inonotus radiatus*.

P: Krasnoufimsk area, Degtjarka, managed deciduous forest, on corticated branch of rowan, 29.VIII.1968 coll. *Sirko*, det. *Stepanova* (SVER(F) 45969). **Cl:** Solovjev (1947); *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Stavishenko* (2006); *Kotiranta et al.* (2007).

****Aphanobasidium aff. pseudotsugae*** (Burt) Boid. & Gilles

Syn. *Phlebiella pseudotsugae* (Burt) K.H. Larss. & Hjortstam

DD • MB • Fhmv, Frdv

On *Picea*.

Kh: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mesic old-growth heath forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20885*; *ibid*, on corticated spruce, 12.VIII.2005 *Kotiranta 20914*.

Artomyces cristatus (Kauffman) Jülich

Syn. *Clavicornia cristata* (Kauffman) Doty

VU B1+2a; D1 • SB, MB • Fhmv

On *Abies* & *Picea*.

Cl: *Shiryaev* (2004b, 2006a); *Shiryaev & Stavishenko* (2008). **Is:** *Shiryaev* (2004b, 2006a).

Artomyces pyxidatus (Pers.) Jülich

Syn. *Clavicornia pyxidata* (Pers.) Doty

LC • FS, HB, SB, MB, NB, SA, AL • Fhd, Fhm, Frd, Frm

On fallen coniferous and deciduous trees, very seldom as a root parasite. Widely spread and common.

P: *Shiryaev* (2006a). **KK:** *Shiryaev* (2006a). **Cl:** *Shiryaev* (2004b, 2006a, 2007f); *Shiryaev & Stavishenko* (2008). **Bp:** *Stepanova* (1971); *Stepanova & Mukhin* (1979); *Shiryaev* (2004b, 2006a, 2007b); *Sisert area*, Biological station USU, managed *Pinus*-dominated dry forest, on fallen decorticated trunk of pine, inside beetles holes, 29.VI.2008 *Shiryaev 8560*; *ibid*, *Sisert river valley*, on fallen trunk of *Alnus incana*, 28.VIII.2006 *Shiryaev 8586*; *ibid*, mesic mixed old-growth forest with *Pinus*, *Populus*, *Sorbus*, *Salix* spp., on fallen trunk of aspen, 27.VIII.2006 *Shiryaev 8623*. **PI:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Mukhin et al.* (2003); *Shiryaev* (2006a). **NI:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Shiryaev* (2006a). **Ks:** *Shiryaev* (2006a). **Nm:** *Shiryaev* (2006a); **ST:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Shiryaev* (2006a). **PT:** *Shiryaev* (2006a). **Kh:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Shiryaev* (2004b, 2006a, 2006b). **Is:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Shiryaev* (2004b, 2006a). **OU:** *Shiryaev* (2006a, 2007b). **VP:** *Shiryaev* (2006a).

Asterodon ferruginosus Pat.

LC • HB, SB, MB • Fhd, Fhm, Frd

On coniferous and deciduous trees. Widely spread.

P: Achit area, Korzunovka, old-growth *Abies*-dominated mesic forest, on fallen branch of fir 11.VIII.1976 *Stepanova* (SVER(F) 45587). **Cl:** Prigorod area, Visim Nat. Res., Galashki, old-growth mixed forest, on decayed coniferous trunk, 17.IX.1994 *Kotiranta 11814*; Shiryayev & Stavishenko (2008). **NI:** Mukhin (1993). **Ks:** Kushva area, W slope of Kedrovka mnt., old-growth *Pinus*-dominated forest, on fallen trunk and branches of aspen, 18.IX.1999 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 48620). **ST:** Krasnouralsk, Dachny, managed mesic *Pinus-Betula-Populus* forest, on fallen branches of aspen and birch, 10.IX.2000 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 52408). **Is:** *Stepanova* (1971). **Kh:** Severouralsk area, Kazansky Kamen mnt. range, on coniferous tree, 15.VIII.1949 *Stepanova* (SVER(F) 57464).

Asterostroma cervicolor (Berk. & M.A. Curtis) MaseeSyn. *Asterostroma ochroleucum* Bres. ex Torrend

NTA1c • HB, SB • Fhmv, Frd

On *Abies*.

Cl: Shiryayev & Stavishenko (2008). **Bp:** *Stepanova* (1971); Bondartseva (1998). **PI:** Mukhin (1993).

****Athelia acrospora*** Jülich

LC • SB • Fhd, Fhm

On *Pinus*.

Cl: Shalya area, Sylva, mesic old-growth *Pinus*-dominated forest with *Tilia*, *Ulmus*, *Sorbus*, on pine trunk, 30.VIII.1969 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 58726). **Bp:** Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on corticated pine twigs, 27.VIII.2002 *Kotiranta 19884*.

Athelia arachnoidea (Berk.) Jülich

LC • HB, SB, MB • Fhd, Fhm, Frd, Frm

On trees, lichens.

P: *Stepanova* (1971); Achit area, Korzunovka, on stump of *Betula pendula*, 23.VIII.1953 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 46218). **Cl:** *Stepanova* (1971); Shiryayev & Stavishenko (2008). **Bp:** Sisert area, Biological Station USU, on deciduous litter and lichens, like *Hypogymnia*, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 49506). **Nm:** Krasnouralsk, Dachny, managed deciduous forest, on *Alnus incana* with lichens, 3.VIII.1995 coll. *Bryzgalov*, det. *Kotiranta* (SVER(F) 52548). **Kh:** *Stepanova* (1971).

****Athelia binucleospora*** J. Erikss. & Ryvarden

NE • HB • Fhm

On *Populus*.

Cl: Shalya area, Shigaevo, old-growth *Pinus*-dominated mesic forest with *Populus*, *Betula*, *Tilia*, *Ulmus*, *Sorbus*, on fallen branch of aspen, 7.VIII.2007 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 55439).

Athelia bombacina (Link) Pers.

LC • FS, HB, SB, MB • Fhd, Frd

On coniferous trees and litter.

KK: Arti area, Pristan', managed *Pinus*-dominated herb rich forest with *Tilia*, *Populus*, *Ulmus*, *Sorbus*, on dead petioles of *Athyrium*, 19.VIII.1968 coll. *Sirko*, det. *Stepanova* (SVER(F) 46087). **Cl:** *Shiryayev* & *Stavishenko* (2008). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on corticated pine twigs, 25.VIII.2002 *Kotiranta 19773*. **PI:** *Mukhin et al.* (2003). **NI:** Irbit area, Yelan', slope to Nitsa river, managed *Picea*-dominated forest, on fallen trunk of spruce, 20.VII.1966 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 50645). **Is:** Ivdel area, Polunochnoje, on fallen *Larix* branch, 18.VIII.2005 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 55544). **OU:** Ivdel area, Ous, mesic habitat close to the brook, on partly buried branch of spruce, 8.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58600).

Athelia decipiens (Höhn. & Litsch.) J. Erikss.

LC • FS, HB, SB, MB • Fhd, Frd

On *Abies*, *Picea*, *Pinus*, *Salix*. Widely spread.

P: Krasnoufimsk area, Krasnoufimsk, Ufa river valley, on willows branches, 19.VIII.1993 coll. *Bryndina*, det. *Stavishenko* (SVER(F) 47089). **Cl:** *Shiryayev* & *Stavishenko* (2008). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine, felled by *Fomitopsis pinicola*, also *Hyphodontia spathulata*, *Antrodia sinuosa*, *Botryobasidium* sp., 25.VIII.2002 *Kotiranta 19787*. **PI:** *Stepanova* (1971). **NI:** *Mukhin* (1993). **Ks:** Kushva area, W slope of Kedrovka mnt., old-growth *Pinus*-dominated mesic forest, on fallen trunk of fir, 17.VIII.1969 coll. *Sirko*, det. *Parmasto* (SVER(F) 50262). **Is:** *Stepanova* (1971).

Athelia epiphylla Pers.

LC • FS, HB, SB, MB • Fhm, Frd

On conifers and deciduous trees, also on ferns. Widely spread.

P: *Stepanova* (1971); Achit area, Korzunovka, on dead petioles of *Dryopteris*, 30.VIII.1954 *Stepanova* (SVER(F) 45190). **Cl:** *Stepanova* (1971); *Shiryayev* & *Stavishenko* (2008). **Bp:** *Stepanova* (1971); Nevjansk area, S coast of Tavatuy Lake, on *Tilia*, 8.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 47350). **PI:** *Stepanova* (1971). **Nm:** Krasnouralsk, Dachny, *Betula pendula*, 16.VIII.1995 coll.

Bryzgalov, det. *Stavishenko* (SVER(F) 49886). **ST**: Verkhoturiye, Vostochny, on *Pinus*, 3.IX.1976 *Stepanova* (SVER(F) 51656). **Is**: Ivdel area, Ushma, on *Picea*, 21.VIII.1949 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 56446). **OU**: Ivdel area, Ous, on *Larix*, 8.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 59205).

Athelia fibulata M. P. Christ.

LC • HB, SB • Fhm, Frd

On *Abies*, *Picea*, *Salix*.

Cl: Prigorod area, Visim Nat. Res., Galashki, old-growth mesic forest, on trunk of *Abies*, 18.IX.1994 *Kotiranta* 11822b. **Bp**: Stepanova & Mukhin (1979). **PI**: Mukhin et al. (2003). **Nm**: Krasnouralsk, Dachny, managed deciduous forest, on fallen branch of *Salix caprea*, 5.VIII.2004 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 56803).

Athelia neuhoffii (Bres.) Donk

Syn. *Athelia globularis* M. P. Christ.

LC • SB • Fhd

On *Picea*, *Populus*.

Cl: Stepanova (1971). **Bp**: Nevjansk area, S coast of Tavatuy Lake, old-growth *Picea*-dominated dry forest with *Pinus*, *Populus*, *Betula*, *Tilia*, *Juniperus*, on partly buried branch of spruce, 8.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 51629).

Athelia salicum Pers.

Syn. *Athelia incrustata* M.P. Christ.

NE • HB, SB • Frd, Frm

On deciduous trees.

P: Krasnoufimska area, Sargaja, managed deciduous forest, on corticated branch of *Corylus*, 18.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 47382). **Cl**: Stepanova (1971); Sisert area, Biological station USU, Sisert river valley, on branch of *Alnus incana*, 20.VII.1998 coll. *Ushakova*, det. *Kotiranta* (SVER(F) 49873). **NI**: Irbit area, Yelan', slope to Nitsa river, on branch of *Betula pubescens*, 9.VIII.1977 coll. *Stepanova*, det. *Parmasto* (SVER(F) 54434).

****Athelia sibirica*** (Jülich) J. Erikss. & Ryvardeen

LC • SB • Frd, Frm

On *Betula* & *Populus*.

Bp: Sisert area, Biological station USU, managed *Pinus*-dominated open herb-rich forest, on birch, 28.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 50501). **Nm**: Krasnouralsk, Dachny, managed deciduous forest, on aspen, 17.VIII.1995 coll. *Bryzgalov*, det. *Stavishenko* (SVER(F) 58574).

****Athelia subobovata*** Jülich & Hjortstam

NE • SB • Fhm

On *Picea*.

Cl: Shalya area, Sylva, old-growth *Pinus*-dominated mesic forest with *Populus*, *Betula*, *Sorbus*, *Tilia*, on fallen branch of spruce, 15.VIII.1975 coll. *Stepanova*, det. *Mukhin & Kotiranta* (SVER(F) 54034).

Athelia teutoburgensis (Brinkmann) JülichSyn. *Corticium teutoburgense* Brinkmann

LC • HB, SB, MB • Fhm, Frd

On *Betula* & *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», in mixed old-growth forest with *Pinus*, *Populus*, *Betula*, *Ulmus*, *Quercus*, *Corylus*, on fallen trunk of oak, 19.VIII.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 56299). **Cl:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, old-growth *Abies*-dominated herb rich forest, on fallen birch, 12.VIII.1972 coll. *Stepanova*, det. *Parmasto* (SVER(F) 59356). **Kh:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Is:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971).

****Athelopsis glaucina*** (Bourdot & Galzin) Oberw. ex *Parmasto*

LC • SB • Frd

On *Alnus*.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, slope to Serga river, old-growth *Pinus*-dominated herb-rich forest, on fallen branch of *Alnus incana*, 19.VIII.1969 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 51253).

****Athelopsis lembospora*** (Bourd.) Oberw.

LC • SB • Frd

On *Matteuccia*.

Ks: Kachkanar area, SW slope of Kachkanar mnt., managed *Pinus*-dominated wet forest with mosses, on rotten petioles of *Matteuccia*, 21.VIII.1965 coll. *Sirko*, det. *Parmasto* (SVER(F) 57205).

Athelopsis lunata (Romell ex Bourdot & Galzin) *Parmasto*Syn. *Trechispora lunata* (Romell ex Bourdot & Galzin) Jülich

LC • HB, SB • Fhd

On *Pinus*.

P: *Stepanova* (1971). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on fallen pine, also *Skeletocutis kuehneri*, 13.VIII.1993 *Kotiranta* 10992b.

Auricularia auricula-judae (Bull.) Quél.VU B2a; D1 • HB, SB • Cp, FhdMostly on introduced *Sambucus nigra* and once on *Corylus*.**P:** Krasnoufimsk area, Sarana, *Corylus*, 17.VIII.1993 coll. *Bryndina*, det. *Shiryayev* (SVER(F) 41789). **Cl:** Nizhniye Sergi town park, on *Sambucus nigra*, 21.VIII.1969 coll. *Sirko*, det. *Raitviir* (SVER(F) 40396). **Bp:** Stepanova (1971).****Auricularia mesenterica*** (Dicks.) Pers.

NT B2ab(iii); D1 • HB • Cp, Fhm, Frd, Frm

On *Acer* & *Ulmus*.**P:** Krasnoufimsk area, «Nizhneirginsk oak forest», on *Acer platanoides*, 28.VIII.1960 coll. *Stepanova*, det. *Shiryayev* (SVER(F) 41430); *ibid*, Sargaja, on *Ulmus glabra*, 11.X.1999 *Shiryayev* (SVER(F) 41752). **Cl:** Nizhneserginsk area, slope to Serga river, on *Ulmus glabra*, 3.IX.2001 coll. *Trapeznikova*, det. *Shiryayev* (SVER(F) 42181).***Auriculariopsis albomellea*** (Bondartsev) Kotl.Syn. *Cyrtidiella albomellea* (Bondartsev) Parmasto, *C. melzeri* Pouzar

LC • SB • Fhm

On *Pinus* & *Picea*.**Cl:** Stepanova-Kartavenko (1967); *Shiryayev* & Stavishenko (2008). **Bp:** Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on corticated pine, 27.VIII.2002 *Kotiranta 19893*.***Auriporia aurulenta*** David, Tortič & JeličSyn. *Chaetoporellus aureus* (Peck) Bondartsev

NE • SB • Fhm

On *Abies*.**Cl:** Stepanova (1971); Revda area, Ilmovka station, *Abies*-dominated mesic old-growth forest with *Tilia*, *Sorbus*, *Populus*, *Ulmus*, on fallen trunk of fir, 28.VIII.1979 *Stepanova* (SVER(F) 52905).***Auriscalpium vulgare*** GraySyn. *Auriscalpium fechtneri* (Velen.) Nikol.

LC • FS, HB, SB, MB, NB • Fhd, Fhm, Frd

On *Pinus* cones. Widely spread and common.**P:** Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); *Shiryayev* & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on pine cones, 13.VIII.1993 *Kotiranta 10995*. **PI:** *Shiryayev* (2007c). **NI:**

Stepanova (1971). **Ks:** Kushva area, W slope of Kedrovka mnt., on fallen cones in *Pinus* forest, 20.VIII.1956 *Stepanova* (SVER(F) 46583). **ST:** Stepanova (1971). **Kh:** Tomilin (1965). **Is:** Severouralsk area, slope to Vagran river, on pine cones, 9.IX.2005 *Yelin & Shiryayev* (SVER(F) 50012). **OU:** Ivdel area, Ous, on pine cones, 8.VIII.2006 *Ovsjanikov & Shiryayev* (SVER(F) 58472).

B

Bankera fuligineoalba (J.C. Schmidt) Coker & Beers ex Pouzar

NT C1+2a(i) • HB, SB, MB, NB • Fhdv

On soil in pine forests.

P: Shiryayev (2008c). **KK:** Shiryayev (2008c). **Cl:** Shiryayev & Stavishenko (2008); Shiryayev (2008c). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971). **PI:** Stepanova (1971); Shiryayev (2007c). **NI:** Shiryayev (2008c). **Ks:** Shiryayev (2008c). **Nm:** Shiryayev (2008c). **ST:** Shiryayev (2008c). **Kh:** Tomilin (1965); Stepanova (1971); Shiryayev (2008c). **Is:** Shiryayev (2008c). **OU:** Shiryayev (2008c).

Bankera violascens (Alb. & Schwein.) Pouzar

VU A3c; B2b(iii); C2a(i) • HB, SB • Fhdv, Fhmv

On soil in spruce forests.

Cl: Shiryayev & Stavishenko (2008). **Cl:** Shiryayev (2008c). **Bp:** Shiryayev (2008c). **PI:** Stepanova (1971).

Basidiodendron caesiocinereum (Höhn. & Litsch.) Luck-Allen

Syn. *Bourdotia caesiocinerea* (Höhn. & Litsch.) Bourdot & Galzin

LC • HB, SB, MB • Fhm, Frd

On *Abies*, *Alnus*, *Betula*, *Picea*, *Quercus*.

P: Solovjev (1946); Stepanova (1972). **Cl:** Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, on partly buried branches of *Abies*, 21.VIII.1972 *Sirko* (SVER(F) 40059). **Bp:** Polevskoy area, Azov mnt., managed *Pinus*-dominated herb-rich forest, on fallen birch and litter around, 10.VIII.1973 coll. *Sirko*, det. *Raitviir* (SVER(F) 40201). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, on *Alnus*, 17.VIII.1971 *Stepanova* (SVER(F) 40383). **Ks:** Kushva area, SW slope of Kedrovka mnt., old-growth *Abies*-dominated mesic forest, on fallen trunk and branches of fir, 8.IX.2001 coll. *Shiryayev*, det. *Govorova* (SVER(F) 41247). **Is:** Ivdel area, Pelym, on fallen spruce, 25.VIII.1980 *Stepanova* (SVER(F) 42412).

Basidiodendron cinereum (Bres.) Luck-Allen

Syn. *Bourdotia cinerea* (Bres.) Bourdot & Galzin

LC • HB, SB • Fhd, Fhm, Frd

On *Abies*, *Picea*, *Quercus*.

P: Stepanova (1972); Krasnoufimsk area, Sargaja, on oak, 20.VIII.1974 *Sirko* (SVER(F) 40297). **Bp:** Nevjansk area, Tavatuy Lake, on *Picea*, 4.IX.1973 coll. *Sirko*, det. *Raitviir* (SVER(F) 41407).

Basidiodendron eyrei (Wakef.) Luck-Allen

LC • HB, SB, MB • Frd

On *Alnus*, *Padus*, *Populus*, *Ulmus*.

Cl: Stepanova (1972); Shalya area, Shigaevo, on decorticated *Ulmus glabra* branch, 3.IX.2000 coll. *Shiryaev*, det. *Govorova* (SVER(F) 40420). **Bp:** Nevjansk area, Tavatuy lake, on partly corticated *Alnus incana*, 2.IX.1969 *Sirko* (SVER(F) 41453). **Is:** Severouralsk area, Bajanovka, decorticated *Padus racemosa*, 6.VIII.2005 *Kotiranta & Mukhin* (SVER(F) 42290).

Basidioradulum radula (Fr.) Nobles

Syn. *Radulum orbiculare* Fr.

LC • HB, SB, MB • Fhm, Frd

On *Betula & Padus*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev & Stavishenko (2008). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova (1971).

****Biatoropsis usnearum*** Räsänen

NE • SB, MB • Fhd

Parasite on *Usnea* spp.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, W slope of Bardym mt. range, parasite on *Usnea* sp., 6.VIII.2000 coll. *Trapeznikova*, det. *Shiryaev* (SVER(F) 42462). **Is:** Ivdel area, Chistop mt., parasite on *Usnea* sp., 28.VII.1975 coll. *Gorchakovsky*, det. *Almanaite* (SVER(F) 42732).

Bjerkandera adusta (Willd.) P. Karst.

LC • FS, HB, SB, MB, NB, SA • Cp, Cshi, Fhm, Frd, Sif

On deciduous trees. Common and widely spread.

P: Demidova (1963); Stepanova (1971). **KK:** Stepanova (1971). **Cl:** Demidova (1963); Stepanova (1971); Revda area, Khomutovka, polluted river-side thicket forest with *Salix* spp., *Padus*, *Picea*, on dead, corticated willow, together with *Irpex lacteus*, *Trametes pubescens*, *Funalia trogii*, *Daedaleopsis confragosa*, *Antrodiella pallescens*, *Botryobasidium pruinaum*, *Cytidia salicina*, 26.VIII.2002 *Kotiranta 19798*; Prigorod area, Visim Nat. Res., Galashki, on *Salix caprea*, 17.IX.1994

Kotiranta 11784; Stavishenko (2006); Kotiranta et al. (2007). **Bp**: Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, partly relatively luxuriant, fairly old *Pinus*-dominated forest, on aspen log, 13.VIII.1993 *Kotiranta 10982*; *ibid.*, strongly human influenced grass-herb forest, on corticated willows, together with *Trametes ochracea*, *Trametes versicolor*, 28.VIII.2002 *Kotiranta 19902*; *ibid.*, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on man-made birch stump, 27.VIII.2002 *Kotiranta 19872*; Stavishenko (2000); Kotiranta et al. (2007). **PI**: Stepanova (1971); Mukhin et al. (2003). **NI**: Stepanova (1971); Mukhin (1993); Kotiranta et al. (2007). **Ks**: Stepanova (1971). **Nm**: Stepanova (1971). **ST**: Stepanova (1971). **PT**: Stepanova (1971). **Kh**: Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen aspen, 20.VIII.1947 *Stepanova* (SVER(F) 51022); Stavishenko (2003). **Is**: Stepanova (1971). **OU**: Stepanova (1971). **VP**: Stepanova (1971).

Bjerkandera fumosa (Pers.: Fr.) P. Karst.

NT B2ab(iv); C2a(i) • FS, HB, SB • Cp, Fhm, Frd

On broadleaved trees, like *Acer*, *Cerasus*, *Crataegus*, *Malus*, *Quercus*, *Ulmus*.

P: Stepanova (1971). **CI**: Stepanova-Kartavenko (1967); Stepanova (1971). **Bp**: Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Kotiranta et al. (2007); Ekaterinburg, Botanical Garden RAS, on *Malus* stump, 11.X.2009 *Kotiranta & Shiryayev* (SVER(F) 55418). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971). **NI**: Stepanova-Kartavenko (1967); Stepanova (1971).

Boidinia furfuracea (Bres.) Stalpers & Hjortstam

LC • HB, SB, MB • Fhm, Frd, Frdv

On coniferous and deciduous trees.

CI: Achit area, Korzunovka, old-growth *Abies*-dominated forest, on fallen branch of fir, 2.VIII.1977 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 53923). **Bp**: Nevjansk area, Tavatuy Lake, old-growth *Picea*-dominated mesic forest with *Pinus*, *Populus*, *Tilia*, *Sorbus*, *Juniperus*, on fallen pine, 6.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 57542). **PI**: Mukhin (1993). **Kh**: Karpinsk area, eastern slope of Kazansky Kamen mnt. range, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen deciduous trunk, 20.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 52015).

Boletopsis grisea (Peck) Bondartsev & Singer

¹VU A2c+3c+4c; B2a,b(iii) • HB, SB, MB • Fhdv

On soil in *Pinus* forests.

CI: Shiryayev & Stavishenko (2008); Shiryayev (2008c). **PI**: Shiryayev (2007c). **OU**: Shiryayev (2008c).

Boletopsis leucomelaena (Pers.) Fayod²EN C1+2a(i); D1 • FS, SB • FhmvOn soil in *Abies* and *Picea* forests.**CI:** Shiryayev & Stavishenko (2008); Shiryayev (2008c). **Bp:** Stepanova (1971). **PI:** Shiryayev (2007c).****Bondarzewia montana*** (Quél.) SingerSyn. *Cerioporus montanus* Quél., *Bondarzewia mesenterica* (Schaeff.) Kreisel**CR** C2a(i); D1 • SB, MB • Fhmv, Frdv

Root-parasite of coniferous trees.

CI: Shalya area, 3 km NW of Sylva, old-growth *Abies*-dominated nemoral forest (habitat destroyed – comm. *Shiryayev*), on soil and roots of fir, 25.VIII.1973 *Stepanova* (SVER(F) 49355). **Is:** Severouralsk area, Kalja, W slope of Vysotinskaya mnt., old-growth mesic *Picea–Pinus sibirica*-dominated forest with *Betula*, *Populus*, *Sorbus*, *Alnus*, *Padus*, on soil and roots of spruce, 20.VIII.2003 coll. *Vysotski*, det. *Shiryayev* (SVER(F) 52787).***Boreostereum radiatum*** (Peck) ParmastoSyn. *Stereum radiatum* Peck**LC** • SB, MB • Fhm, Frd

On coniferous trees.

CI: Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev & Stavishenko (2008). **ST:** Stepanova (1971).****Botryobasidium aureum*** Parmasto**NE** • HB • Fhmv, FrdvOn broadleaved trees, like *Ulmus* & *Populus*.**P:** Krasnoufimsk area, Chernaja Rechka, managed deciduous mesic forest with *Ulmus*, *Tilia*, *Populus*, *Acer*, *Sorbus*, *Frangula alnus*, on fallen branch of elm, 6.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 47607); *ibid*, Ufa river valley, Sargaja, on trunk of *Populus nigra*, 4.VIII.1968 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 51637).***Botryobasidium candicans*** J. Erikss.**LC** • FS, HB, SB, MB, NB, SA • Fhm, FrdOn *Abies* & *Picea*.**CI:** Shalya area, Shigaevo, mesic *Pinus*-dominated old-growth herb-rich forest, on trunk of fir, 3.IX.1997 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 45322). **Bp:** Stepanova (1971); Polevskoy area, Azov mnt., managed *Pinus*-dominated mesic forest, on trunk of spruce, 14.IX.1998 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 50510). **PI:** Tugulym area, Troshkovo, old-growth *Pinus–Picea*-dominated forest,

on fallen branch of spruce, 8.VIII.1982 *Mukhin* (SVER(F) 54279). **NI:** Irbit area, Yelan', spruce–pine-dominated forest, 20.VIII.1964 coll. *Storozheva*, det. *Kotiranta* (SVER(F) 49487). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 20.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 46728).

Botrybasidium conspersum J. Erikss.

LC • SB, MB • Frm

On coniferous trees.

CI: Pervouralsk area, Didino, managed *Pinus–Picea*-dominated herb-rich forest, on fallen branch of spruce, 24.IX.2005 coll. *Yalkovsky*, det. *Mukhin* (SVER(F) 47592). **Bp:** Stepanova (1971); Stepanova & *Mukhin* (1979). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen spruce, 12.VIII.2005 *Kotiranta 20944*.

****Botrybasidium elliposporum*** Hol.-Jech.

NE • MB • Fhm

On *Abies*.

Kh: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., old-growth mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 12.VIII.2005 *Kotiranta 20874b*.

****Botrybasidium intertextum*** (Schwein.) Jülich & Stalpers

Syn. *Botrybasidium angustisporum* (Boid.) Talbot

LC • SB, MB • Fhm, Frd

On coniferous trees.

CI: Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, nemoral old-growth herb-rich *Abies*-dominated forest with *Tilia*, on fallen branch of fir, 7.IX.1965 coll. *Sirko*, det. *Parmasto* (SVER(F) 46201). **Bp:** Nevjansk area, E coast of Tavatuy Lake, managed mesic *Pinus*-dominated forest, on decorticated branch of pine, 12.VIII.1976 *Mukhin* (SVER(F) 50008). **Ks:** Kushva area, W slope of Kedrovka mnt., mesic old-growth *Pinus*-dominated forest with *Abies*, *Tilia*, *Populus*, *Betula*, *Sorbus*, on fallen fir, 5.IX.2004 coll. *Shiryaev*, det. *Kotiranta* (SVER(F) 47721). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20913*.

Botrybasidium laeve (J. Erikss.) Parmasto

LC • SB, MB • Fhm, Frd, Frm

On deciduous trees.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix*, on decorticated aspen, together with *Steccherinum ochraceum*, *Steccherinum fimbriatum*, *Fomitopsis rosea*, *Antrodia pulvinascens*, 19.VIII.2002 *Kotiranta 19670*; *ibid.*, on decorticated aspen, together with *Hyphodontia detritica*, *Hyphodontia nespori*, 20.VIII.2002 *Kotiranta 19714*; Shiryaev & Stavishenko (2008). **Bp:** Sisert area, Verkh Sisert, on fallen *Sorbus* branch, 20.VIII.1975 *Stepanova* (SVER(F) 45086). **Kh:** Severouralsk area, Bajanovka, on willow branch, 10.VIII.2005 *Shiryaev & Kotiranta* (SVER(F) 47111).

Botrybasidium medium J. Erikss.

LC • HB, MB • Fhd, Fhm

On *Abies* & *Picea*.

P: Achit area, Korzunovka, old-growth *Abies*-dominated nemoral herb-rich forest with *Tilia* and *Acer platanoides*, on partly buried branch of fir, 14.VIII.1968 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 46231). **PI:** Mukhin et al. (2003). **Kh:** Ivdel area, Polunochnoje, managed *Picea*-dominated mesic forest, on branch of spruce, 18.VIII.2005 *Shiryaev & Kotiranta* (SVER(F) 51278).

Botrybasidium obtusisporum J. Erikss.

LC • FS, HB, SB, MB, NB, SA, AL • Fam, Fhd, Fhm

On coniferous trees. Widely spread.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on partly buried trunk of pine, 12.IX.1999 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 47364). **Cl:** *Stepanova* (1971). **Bp:** Nevjansk area, S coast of Tavatuy Lake, old-growth *Picea*-dominated mesic forest with *Populus*, *Tilia* and *Sorbus*, on branch of spruce, 6.VIII.2005 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 48627). **NI:** Turinsk area, Tura river valley, old-growth *Picea*–*Pinus*-dominated forest, 20.VIII.1982 *Mukhin* (SVER(F) 53029). **Ks:** Krasnouralsk, Dachny, on pine branch, 12.VIII.1995 coll. *Bryzgalov*, det. *Stavishenko* (SVER(F) 55935). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20880b*; *ibid.*, on corticated spruce, 12.VIII.2005 *Kotiranta 20946*. **Is:** Ivdel area, Polunochnoje, managed *Picea*-dominated mesic forest, on branch of fir, 18.VIII.2005 *Shiryaev & Kotiranta* (SVER(F) 51255).

Botrybasidium pruinaum (Bres.) J. Erikss.

LC • SB, MB • Fhmv, Frd

On deciduous trees.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on corticated aspen branch, 20.VIII.2002 *Kotiranta 19710b*; Revda area, Khomutovka, polluted river-side, on dead, corticated

willow, together with *Bjerkandera adusta*, *Trametes pubescens*, *Funalia trogii*, *Daedaleopsis confragosa*, *Antrodiella pallescens*, *Irpex lacteus*, *Cytidia salicina*, 26.VIII.2002 *Kotiranta 19803*. **Bp**: Shiryaev & Stavishenko (2008). **ST**: Stepanova (1971). **Is**: Stepanova (1971).

Botryobasidium subcoronatum (Höhn. & Litsch.) Donk

Syn. *Corticium subcoronatum* Höhn. & Litsch.

LC • FS, HB, SB, MB, NB, SA, AL • Fad, Fhm, Fhmv, Fhd, Frd

On *Abies*, *Picea*, *Pinus*, also *Betula*, *Sorbus*. Widely spread and common.

P: Achit area, Korzunovka, old-growth *Abies*-dominated forest, on fallen branch of *Sorbus*, 22.VIII.1975 *Stepanova* (SVER(F) 45065). **KK**: Arti area, Pristan', dry pine forest with nemoral herbs, on pine trunk, 9.VIII.1968 coll. *Sirko*, det. *Stavishenko* (SVER(F) 46843). **Cl**: Stepanova (1971); Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on corticated small pine, 26.VIII.2002 *Kotiranta 19846*; Shiryaev & Stavishenko (2008). **Bp**: Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, fallen pine, 13.VIII.1993 *Kotiranta 10994*; *ibid.*, on decorticated small pine, together with *Postia caesia*, 25.VIII.2002 *Kotiranta 19756*; *ibid.*, on decorticated, partly charred pine, together with *Vesiculomyces citrinus*, *Hyphoderma argillaceum*, 25.VIII.2002 *Kotiranta 19765*; *ibid.*, on decorticated pine branch, also *Vesiculomyces citrinus*, 25.VIII.2002 *Kotiranta 19770b*; *ibid.*, on decorticated birch, together with *Mycoacia fuscoatra*, *Stereum hirsutum*, *Henningsomyces candidus*, 25.VIII.2002 *Kotiranta 19776*; *ibid.*, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on decorticated pine, 27.VIII.2002 *Kotiranta 19894*. **PI**: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI**: Stepanova-Kartavenko (1967). **Ks**: Kushva area, NW slope of Kedrovka mnt., mesic old-growth *Pinus*-dominated forest with *Abies*, *Tilia*, *Populus*, *Betula*, *Sorbus*, on fallen fir, 5.IX.2004 coll. *Shiryaev*, det. *Kotiranta* (SVER(F) 47740). **Nm**: Stepanova (1971). **ST**: Stepanova-Kartavenko (1967); Stepanova (1971). **Kh**: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta 20924*; *ibid.*, on decorticated fir, 12.VIII.2005 *Kotiranta 20934*; Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 20.VIII.1947 *Stepanova* (SVER(F) 48874). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Ivdel area, Ous, old-growth *Picea-Pinus sibirica*-dominated mesic forest, on partly buried branch of Siberian pine, 8.VIII.2007 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 49889).

Botryobasidium vagum (Berk. & M.A. Curtis) D.P. Rogers

Syn. *Corticium vagum* Berk. & M.A. Curtis, *Botryobasidium botryosum* (Bres.) J. Erikss.

LC • HB, SB, MB, NB • Fhd, Fhm

On *Abies* & *Pinus*. Widely spread and common.

P: Krasnoufimsk area, Sarana, managed coniferous and deciduous forests, on decorticated branch of pine together with *Tulasnella thelephorea*, 20.IX.1968 *Stepanova* (SVER(F) 46217). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, fallen pine, together with *Skeletocutis carneogrisea*, 13.VIII.1993 *Kotiranta 11003*; *ibid.*, decorticated pine branch, together with *Phlebiella sulphurea*, *Vesiculomyces citrinus*, *Hyphodontia rimosissima*, 25.VIII.2002 *Kotiranta 19747*; *ibid.*, on decorticated pine, also *Peniophorella praetermissa*, 25.VIII.2002 *Kotiranta 19782*; *ibid.*, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine, together with *Hyphodontia crustosa*, 27.VIII.2002 *Kotiranta 19854*. **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Irbit area, Yelan', nemoral pine forest, on pine branch together with *Tulasnella thelephorea*, 12.VIII.1973 coll. *Sirko*, det. *Mukhin* (SVER(F) 47664). **ST:** Stepanova (1971). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 20.VIII.1947 *Stepanova* (SVER(F) 51400). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Botryohypochnus isabellinus (Fr.) J. Erikss.

Syn. *Tomentella isabellina* (Fr.) Höhn. & Litsch.

LC • HB, SB, MB • Fhmv, Fhd, Frd

On *Abies*, *Pinus*, *Populus*. Widely spread and common.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on corticated aspen, 20.VIII.2002 *Kotiranta 19728*; *ibid.*, on corticated aspen, 20.VIII.2002 *Kotiranta 19735*; *ibid.*, on decorticated fir, 20.VIII.2002 *Kotiranta 19736*; Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine, also *Vesiculomyces citrinus*, 13.VIII.1993 *Kotiranta 10998b*. **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Krasnoturinsk area, Rudnichny, *Abies*-dominated mesic old-growth forest with *Pinus* and *Tilia*, on trunk of fir, 11.VIII.1968 *Kazantseva* (SVER(F) 52159). **OU:** Ivdel area, Ous, old growth mesic *Picea*–*Pinus sibirica* dominated forest, on branch of Siberian pine, 8.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 53672).

****Brevicellicium exile*** (H.S. Jacks.) K.H. Larss. & Hjortstam

NE • AL • Ah

On *Juniperus*.

Kh: Ivdel area, Molebny Kamen mnt. range, southern slope of Oykachakhl mnt., mnt. tundra, on shrubs of *Juniperus sibirica*, 13.VIII.2005 *Kotiranta 20895* & *Votintseva*.

****Brevicellicium olivascens*** (Bres.) K.H. Larss. & Hjortstam

Syn. *Grandinia mutabilis* (Pers.) Bourdot & Galzin, *Trechispora mutabilis* (Pers.) Liberta

LC • HB, SB, MB • Cshi, Fhm, Frd, Frdv

On *Abies*, *Pinus*, *Padus* and litter.

P: Demidova (1963); Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Shalya area, Shigaevo, old-growth *Abies*-dominated mesic herb-rich forest, on fallen fir and all kinds of litter under the trunk, 5.VIII.2006 coll. *Shiryaev*, det. *Almanaite* (SVER(F) 57590). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Sisert area, Biological station USU, strongly human influenced grass-herb forest, on corticated *Padus* twig, 27.VIII.2002 *Kotiranta 19870*. **Is:** Severouralsk area, SW slope of Kumba mnt., mesic old-growth dark-coniferous forest, on partly buried branch of pine and mosses around, 18.VIII.1968 coll. *Stepanova*, det. *Parmasto* (SVER(F) 48323).

Bulbillomyces farinosus (Bres.) Jülich

Syn. *Peniophora candida* Lyman

LC • HB • Fhd, RI

On *Padus* & *Salix*.

Cl: Nizhneirginsk area, Mikhailovsk, calcareous slope to Serga river, on fallen branch of willow, 28.VIII.1977 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 49623).

PI: Stepanova (1971).

Byssocorticium atrovirens (Fr.) Bondartsev & Singer

Syn. *Corticium atrovirens* (Fr.) Fr.

DD • HB • Cp, Frd

On *Acer* & *Quercus*.

P: Stepanova (1971); Krasnoufimsk area, Krasnoufimsk town park, on oak trunk, 2.IX.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 52794). **Cl:** Nizhneserginsk area, W slope of Bardym mnt. range, old-growth mixed forest with *Pinus*, *Populus*, *Sorbus*, *Tilia*, *Acer*, on fallen branch of maple, 20.VIII.1969 coll. *Sirko*, det. *Stavishenko* (SVER(F) 55187).

Byssocorticium pulchrum (S. Lundell) M.P. Christ.

LC • SB, MB • Fhm, Frd

On deciduous trees.

Cl: Shalya area, Sylva, managed *Pinus*-dominated mesic forest, on fallen trunk

of *Populus*, 9.VIII.1977 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 54409). **Kh**: *Stepanova* (1971). **Is**: *Stepanova* (1971).

****Byssomerulius albostramineus*** (C. Torrend) Hjortstam

Syn. *Ceraceomerulius rubicundus* (Litsch. in Pilát) J. Erikss.

LC • SB • Fhm, Frd

On *Picea* & *Pinus*.

Cl: Shalya area, Shigaevo, mesic old-growth *Abies*-dominated herb-rich forest, on branch of spruce, 28.VIII.1997 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 53777). **Bp**: Nevjansk area, Tavatuy Lake, *Pinus*-dominated mesic heath forest with *Juniperus communis*, on dead fallen branch of pine, 6.IX.1978 *Stepanova* (SVER(F) 56442).

Byssomerulius corium (Pers.) Parmasto

Syn. *Merulius corium* (Pers.) Fr.

LC • HB, SB, MB • Cp, Fhm, Frd

On deciduous trees.

P: *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Cl**: *Stepanova-Kartavenko* (1967); *Stepanova* (1971); Shalya area, Sylva, on *Sorbus*, 29.VIII.1968 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 54787). **Bp**: *Stepanova* & *Mukhin* (1979). **PI**: *Stepanova* (1971); *Mukhin* (1993). **NI**: *Mukhin* (1993). **ST**: *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Kh**: *Stepanova* (1971); Ivdel area, Polunochnoje, Chernaja Parma mnt., old growth *Picea-Pinus sibirica*-dominated mesic forest, on aspen, 13.VIII.1946 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 56322). **Is**: *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **OU**: *Stepanova-Kartavenko* (1967); *Stepanova* (1971).

Byssoporia mollicula (Bourdot) M.J. Larsen & Zak

Syn. *Byssocorticium molliculum* (Bourdot) Jülich, *Byssoporia terrestris* (DC.) M.J. Larsen & Zak

LC • SB, MB • Fhm

On *Picea*, *Pinus*, *Betula*, *Padus* and litter.

Cl: *Shiryayev* & *Stavishenko* (2008). **Bp**: Nizhneserginsk area, 7 km S of Nizhniye Sergi, old-growth *Abies*-dominated mesic nemoral heath forest, on fallen *Padus racemosa*, 7.VIII.2004 coll. *Ushakova*, det. *Stavishenko* (SVER(F) 54162). **Ks**: *Kazantseva* (1962); *Stepanova* (1971). **Is**: Ivdel area, Polunochnoje, Chernaja Parma mnt., old growth *Picea-Pinus sibirica*-dominated mesic forest, on fallen branches of fir, 13.VIII.1946 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 55571); *Stepanova* (1971).



Calocera cornea (Batsch: Fr.) Fr.

LC • FS, HB, SB, MB, NB, SA • Fhm, Frd

Mostly on deciduous trees. Widely spread and common.

P: Achit area, Korzunovka, on *Acer*, 28.VIII.1960 *Stepanova* (SVER(F) 40014). **KK:** Arti area, Pristan', on *Tilia*, 5.IX.1996 *Shiryayev* (SVER(F) 41042). **Cl:** Nizhneserginsk area, Mikhailovsk, 3.IX.1970 *Kazantseva* (SVER(F) 41009). **Bp:** Sisert area, Biological station USU, on *Betula*, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 42427). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, on *Alnus*, 17.VIII.1971 *Sirko* (SVER(F) 41557). **Ks:** Kachkanar, on *Padus*, 28.VIII.1995 *Bryzgalov* (SVER(F) 40916). **Nm:** Krasnouralsk surrounds, on *Populus*, 16.VIII.1995 *Bryzgalov* (SVER(F) 42070). **NI:** *Stepanova* (1971). **ST:** Verkhoturkiye, on *Betula*, 26.VIII.1963 coll. *Storozheva*, det. *Sirko* (SVER(F) 42774). **PT:** Gari area, Zykova, on *Alnus*, 18.VIII.1968 *Sirko* (SVER(F) 41261). **Kh:** Ivdel area, Molebny Kamen mnt. range, on *Padus*, 13.VIII.2005 *Shiryayev* (SVER(F) 40122). **Is:** Severouralsk area, Bajanovka, on *Betula*, 6.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 41417). **OU:** Ivdel area, Ous, on *Sorbus*, 7.VIII.2007 *Shiryayev* (SVER(F) 41139).

Calocera furcata (Fr.) Fr.

LC • FS, HB, SB, MB, NB • Fhm

On coniferous trees, mostly on *Pinus*. Widely spread and common.

P: Krasnoufimsk area, Sargaja, on *Pinus*, 27.VIII.1970 *Kazantseva* (SVER(F) 41022). **KK:** Arti area, Manchazh, on *Pinus*, 6.VIII.1977 *Stepanova* (SVER(F) 40421). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp. dominated mixed forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, on corticated pine trunk, 7.VIII.2004 *Ushakova* (SVER(F) 41502). **Bp:** *Stepanova* (1971). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, on *Picea*, 17.VIII.1971 *Sirko* (SVER(F) 42607). **NI:** Irbit area, Zaikovo, on *Picea*, 5.X.2003 *Shiryayev* (SVER(F) 40620). **Ks:** Kushva area, SW slope of Kedrovka mnt., old-growth *Abies*-dominated mesic heath forest, on fallen trunk and branches of fir, 8.IX.2001 *Shiryayev* (SVER(F) 40031). **Nm:** Krasnouralsk, Dachny, on *Pinus*, 16.VIII.1995 *Bryzgalov* (SVER(F) 42840). **PT:** Gari area, Zykova, on *Pinus*, 18.VIII.1968 *Sirko* (SVER(F) 40687). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on Siberian pine, 21.VIII.1974 *Sirko* (SVER(F) 42551). **Is:** Ivdel area, Polunochnoye, on *Pinus*, 18.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 41171).

****Calocera glossoides*** (Pers.: Fr.) Fr.

LC • FS, HB, SB • Frd, Frdv

On *Alnus*, *Corylus*, *Quercus*, *Sorbus*, *Tilia*, *Ulmus*.

P: Krasnoufimsk area, Sargaja, on *Alnus glutinosa*, 28.VIII.1970 coll. *Kazantseva*, det. *Raitviir* (SVER(F) 41394); *ibid.*, on *Corylus*, 28.VIII.1970 coll. *Kazantseva*, det. *Shiryayev* (SVER(F) 42413); *ibid.*, «Nizhneirginsk oak forest», on *Quercus*, 16.VIII.1978 *Stepanova* (SVER(F) 42985). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, on *Ulmus*, 3.IX.2001 *Shiryayev* (SVER(F) 41025). **Bp:** Nevjansk area, Tavatuy lake, on *Tilia*, 8.IX.1969 coll. *Sirko*, det. *Raitviir* (SVER(F) 41478). **NI:** Irbit area, Yelan', on *Ulmus*, 27.VIII.1973 *Sirko* (SVER(F) 41709).

Calocera viscosa (Pers. : Fr.) Fr.

LC • FS, HB, SB, MB, NB • Fhm, Fhmv

On coniferous wood and litter. Widely spread and common.

P *Stepanova* (1971). **KK:** Arti area, Manchazh, on coniferous tree and litter, 25.VIII.1970 *Kazantseva* (SVER(F) 40448). **Cl:** Shalya area, Sylva, old-growth *Abies*-dominated mesic heath forest, on trunk of fir, 9.VIII.1968 coll. *Stepanova*, det. *Parmasto* (SVER(F) 41269). **Bp:** Sisert area, Biological station USU, managed *Pinus*-dominated mesic heath forest, on partly buried branches of pine, also on soil and litter, 3.IX.2003 *Shiryayev* (SVER(F) 42229). **PI:** Mukhin (1993). **Ks:** Kushva area, Kedrovka mnt., on *Alnus*, 28.VIII.1960 coll. *Storozheva*, det. *Mukhin* (SVER(F) 42047). **Nm:** *Stepanova* (1971). **NI:** *Demidova* (1963); *Stepanova* (1971). **ST:** Verkhoturiye, Vostochny, on spruce and litter, 1.IX.1969 *Sirko* (SVER(F) 40792). **PT:** Gari area, Zykova, on spruce trunk and litter, 8.IX.1965 *Sirko* (SVER(F) 41444). **Kh:** Severouralsk area, Kazansky Kamen mnt. range, on *Larix* and litter, 13.VIII.1946 coll. *Solovjev*, det. *Stepanova* (SVER(F) 40000). **Is:** Severouralsk area, Bajanovka, on fallen *Pinus* and soil, 6.VIII.2005 *Knudsen* (SVER(F) 41157). **OU:** Ivdel area, Ous, on soil and litter in managed *Pinus sibirica*–*Picea*-dominated mesic heath forest, 10.VIII.2006 *Shiryayev* (SVER(F) 40238).

Cantharellus cibarius Fr.

LC • FS, HB, SB, MB, NB • Fhm

On soil. Widely spread and common.

P: Krasnoufimsk area, Sarana, on soil in *Pinus*-dominated forest, 1.IX.1999 *Golumbievskaya* (SVER(F) 59847). **Cl:** *Stepanova*–*Kartavenko* (1967); *Shiryayev* & *Stavishenko* (2008). **Bp:** *Stepanova* (1971). **PI:** *Shiryayev* (2007c). **NI:** Irbit area, Yelan', on soil in *Picea*–*Pinus*-dominated mesic heath forest, 6.VIII.1980 *Gorchakovskiy* (SVER(F) 59664). **Nm:** Krasnouralsk, Dachny, on soil in *Pinus*-dominated mesic forest, 18.VIII.1995 *Bryzgalov* (SVER(F) 59500). **ST:** Verkhoturiye, Vostochny, on soil in pine–birch forest, 29.VII.1972 *Stepanova* (SVER(F) 59876). **Kh:** *Tomilin* (1965); Ivdel area, Molebny Kamen mnt. range, on soil in mixed forest, 15.VIII.2005 *Shiryayev* (SVER(F) 50987). **Is:** Ivdel area, Polunochnoje, on soil in managed mixed pine–birch forest, 18.VIII.2005 *Kotiranta* (SVER(F) 59572). **OU:** Ivdel area, Ous, on soil in *Picea*–*Pinus sibirica*-dominated mesic heath forest, 7.VIII.2007 *Shiryayev* (SVER(F) 59744).

Cantharellus cinereus Pers.**DD** • FS, HB, SB • Fhmv

On soil.

P: Krasnoufimsk area, Sargaja, on soil in old-growth *Abies*-dominated mesic heath forest with *Tilia*, *Acer*, *Corylus*, 20.VIII.1968 coll. *Sirko*, det. *Shiryayev* (SVER(F) 59672). **CI:** *Shiryayev* & *Stavishenko* (2008); Nevjansk area, S coast of Tavatuy Lake, on soil in *Picea*-dominated mesic heath forest with *Tilia*, *Populus*, *Frangula*, 7.VIII.2006 *Shiryayev* (SVER(F) 59857). **PI:** *Shiryayev* (2007c).

Cantharellus lutescens Fr.: Fr.Syn. *Cantharellus aurora* (Batsch) *Kuyper*, *Craterellus lutescens* (Fr.) Fr.**VU** B2ab(ii,iii,iv); C1+2a(i) • HB, SB • Fhmv, Frdv

On soil in broadleaved forests and nemoral steppe habitats.

P: Krasnoufimsk area, Chernaja Rechka, on soil in old-growth mesic deciduous heath forest with *Ulmus*, *Tilia*, *Acer*, *Euonymus*, 15.VIII.2006 *Shiryayev* (SVER(F) 59919). **CI:** *Shiryayev* & *Stavishenko* (2008); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, meadow in *Pinus*-dominated nemoral, mesic herb-rich old-growth forest with *Tilia*, *Cotoneaster niger*, *Cerasus fruticosa*, *Rosa* spp., on rich soil (chernozem) on calcareous platform, 3.IX.2001 *Shiryayev* (SVER(F) 59777).

Cantharellus melanoxeros Desm.¹**NT** A2c; B2ab(ii,iii,iv); C1+2a(i) • HB, SB • Cp, Frdv

On soil in deciduous forests.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed, mesic, herb-rich pine–oak forest with *Acer*, *Tilia*, *Euonymus*, on soil, 6.VIII.1997 *Shiryayev* (SVER(F) 59834). **CI:** *Shiryayev* & *Stavishenko* (2008). **Bp:** Ekaterinburg, Botanical Garden RAS, on soil under introduced *Quercus mongolicum*, *Juglans mandshurica*, *Acer platanoides*, 9.X.2008 *Almanaite* (SVER(F) 59943). **PI:** *Shiryayev* (2007c).

Cantharellus tubaeformis (Bull.) Fr.**DD** • HB, SB • Fhmv, Frdv

On soil.

P: Achit area, Korzunovka, *Abies*-dominated nemoral, mesic, old-growth herb-rich forest with *Tilia* and *Acer*, on soil, 18.VIII.1977 coll. *Stepanova*, det. *Shiryayev* (SVER(F) 59810). **CI:** *Shiryayev* & *Stavishenko* (2008). **PI:** *Shiryayev* (2007c).

****Ceraceomyces borealis*** (Romell) J. Erikss. & RyvardenSyn. *Athelia borealis* Parmasto**LC** • SB, MB • Fhd, FhmOn *Picea*, *Betula*, *Populus*.**CI:** Nizhneserginsk area, 7 km S of Nizhniye Sergi, old-growth *Abies*-dominated

mesic heath forest with *Tilia*, *Populus*, *Sorbus*, *Betula*, on fallen trunk of aspen, 7.VIII.2004 coll. *Ushakova*, det. *Stavishenko* (SVER(F) 48476). **Bp**: Nevjansk area, S coast of Tavatuy Lake, old-growth *Picea*-dominated dry heath forest with *Tilia*, *Populus*, *Sorbus*, *Juniperus*, on partly buried branch of spruce, 7.VIII.2006 coll. *Shiryaev*, det. *Kotiranta* (SVER(F) 48518). **Kh**: Ivdel area, Molebny Kamen mnt. range, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen birch, 16.VIII.2005 *Kotiranta* 20861; *ibid.*, on spruce 16.VIII.2005 *Kotiranta* 20859.

****Ceraceomyces eludens*** K.H. Larss.

Syn. *Kneiffia nivea* P. Karst.

LC • HB, SB, MB, NB • Fhm, Frd

On coniferous and deciduous trees.

P: Achit area, Korzunovka, mixed forest, on litter, 29.VIII.1965 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 49040). **Cl**: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on corticated *Padus* branch, 20.VIII.2002 *Kotiranta* 19725. **PI**: Talitsa area, Budka, managed *Pinus*-dominated dry forest, on fallen branch of pine, 10.IX.1973 coll. *Stepanova*, det. *Mukhin* (SVER(F) 51335). **NI**: Tavda area, Gorodische, old-growth *Pinus*–*Picea*-dominated forest, on fallen *Populus*, 1.IX.1976 coll. *Sirko*, det. *Stavishenko* (SVER(F) 48957). **Kh**: Severouralsk area, Kazansky Kamen mnt. range, coniferous forest, on *Betula* trunk, 14.VIII.1947 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 53417). **Is**: Ivdel area, Polunochnoje, managed, mesic *Picea*–*Pinus sibirica* forest, on trunk of Siberian pine, 18.VIII.2005 *Shiryaev* & *Kotiranta* (SVER(F) 52061).

****Ceraceomyces microsporus*** K.H. Larss.

LC • SB • Fhm

On *Pinus*.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix*, on corticated pine branch, 19.VIII.2002 *Kotiranta* 19695.

Ceraceomyces serpens (Tode) Ginns

Syn. *Merulius serpens* Tode

LC • FS, HB, SB, MB, ND • Fhm, Fhd, Frd

On coniferous and deciduous trees. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev & Stavishenko (2008). **Bp**: Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine, also *Amphinema byssoides*, *Coniophora fusispora*, *Tomentella* sp. 13.VIII.1993 *Kotiranta* 11020; *ibid.*, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on partly corticated pine, also *Peniophorella*

pubera, 27.VIII.2002 *Kotiranta 19876*. **PI**: Talitsa area, «Pripyshminsk Bory» Nat. Park, on *Betula*, 15.VIII.1954 coll. *Stepanova*, det. *Mukhin* (SVER(F) 48220). **NI**: Stepanova-Kartavenko (1967); Stepanova (1971); *Mukhin* (1993). **ST**: Stepanova-Kartavenko (1967). **Kh**: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 12.VIII.2005 *Kotiranta 20915*. **Is**: Stepanova-Kartavenko (1967). **OU**: Stepanova-Kartavenko (1967); Stepanova (1971).

Ceraceomyces sublaevis (Bres.) Jülich

LC • HB, SB, MB • Fhm

On coniferous & deciduous trees.

Cl: Stepanova (1971). **PI**: Stepanova (1971); Tugulym area, «Pripyshminsk Bory» Nat. Park, Gurino, mesic *Pinus*-dominated old-growth heath forest, on birch branch, 20.IX.2002 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 49624). **NI**: *Mukhin* (1993). **Kh**: Stepanova (1971). **Is**: Ivdel area, Polunochnoje, managed mesic *Pinus*-dominated heath forest, on pine trunk, 19.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 50107).

Ceraceomyces sulphurinus (P. Karst.) J. Erikss. & Ryvardeen

NE • SB, MB • Fhm

On *Pinus*.

Cl: Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on small, partly corticated pine, also *Resinicium pinicola*, *Phlebiella sulphurea*, *Postia leucomallella*, 27.VIII.2002 *Kotiranta 19895*. **PT**: Stepanova (1971).

Ceraceomyces tessulatus (Cooke) Jülich

Syn. *Athelia tessulata* (Cooke) Donk

LC • FS, HB, SB, MB • Fhm, Frd

On decaying wood of coniferous and deciduous trees and litter.

P: Krasnoufimsk area, Sarana, managed nemoral deciduous herb-rich forest, on fallen *Tilia* branch, 2.IX.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 48611). **Cl**: Prigorod area, Visim Nat. Res., Galashki, mesic old-growth forest, on fallen trunk of *Betula pendula*, 17.IX.1994 *Kotiranta 11811*; *Shiryayev & Stavishenko* (2008). **PI**: Stepanova (1971). **NI**: *Mukhin* (1993). **ST**: Verkhoturiye, Vostochny, on *Betula pubescens* trunk, 11.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 46584). **Is**: Ivdel area, Chernaja Parma mnt., old-growth *Pinus sibirica*–*Picea*-dominated mesic forest with *Betula*, *Populus*, *Sorbus*, *Salix*, *Alnus*, on branch of Siberian pine, 18.VIII.1949 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 49887).

Ceraceomyces violascens (Fr.) Jülich

Syn. *Athelia violascens* (Fr.) Donk, *Ceraceomyces cystidiatus* (J. Erikss. & Hjortstam) Hjortstam

LC • HB, SB, MB • Fhd, Fhdb, Fhm, Fhmv

On conifers and deciduous trees, also on litter.

P: Achit area, Korzunovka, coniferous herb-rich forest, on trunk of *Populus*, 2.IX.1960 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 45336). **Cl:** Shalya area, Sylva, old-growth *Pinus*-dominated mesic heath forest with *Tilia*, *Ulmus*, *Populus*, *Sorbus*, on fallen branch of aspen, 2.IX.2000 coll. *Shiryayev*, det. Stavishenko (SVER(F) 48654). **Bp:** Sisert area, Biological Station USU, managed *Pinus*-dominated mesic heath forest, on decaying trunk of pine and litter, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 47615). **PI:** Bogdanovich area, Bajny, managed *Pinus*-dominated dry heath forest, on decorticated pine branch, 6.IX.1996 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 48984). **NI:** Irbit area, Yelan', managed pine forest, on partly buried branch of pine, 5.VIII.1962 coll. *Storozheva*, det. *Parmasto* (SVER(F) 48533). **Ks:** *Stepanova* (1971). **ST:** Verkhoturkiye, Vostochny, managed deciduous forest, on dead leaves and grasses, 11.VIII.1963 coll. *Storozheva*, det. *Parmasto* (SVER(F) 49608). **Kh:** *Stepanova* (1971); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on litter, 11.VIII.2005 *Kotiranta* 20909.

Ceratellopsis aculeata (Pat.) Corner

LC • HB, SB • Blm, Mro

On *Alisma*, *Typha*.

P: *Shiryayev* (2006a). **Cl:** *Shiryayev & Stavishenko* (2008); Nizhneserginsk area, S of Nizhniye Sergi, Ser'ga river valley, on dead leaves of *Typha angustifolia*, 14.IX.2000 *Shiryayev* 8544. **Bp:** Sisert area, Biological station USU, on *Alisma plantago-aquatica*, 3.IX.2002 *Shiryayev* 8823.

Ceratellopsis sagittiformis (Pat.) Corner

LC • FS, HB, SB, MB • Ch, Cm, Fhm, Frm

On decaying grasses and leaves. Widely spread.

P: Krasnoufimsk area, Chernaya Rechka, managed, mesic *Ulmus*–*Populus* forest, on *Bupleurum* sp., 15.VIII.2006 *Shiryayev* 8711. **Cl:** *Shiryayev* (2004b, 2006, 2007f); *Shiryayev & Stavishenko* (2008). **Bp:** *Shiryayev* (2004b, 2006a); Sisert area, Biological station USU, old-growth mesic forest with *Pinus*, *Populus*, *Sorbus*, *Salix* spp., *Alnus*, on aspen leaves, 3.IX.2004 *Shiryayev* 8860. **PI:** *Mukhin et al.* (2003); *Shiryayev* (2006a). **NI:** Irbit area, Yelan', Nitsa river valley, managed mesic forest with *Salix* spp., *Alnus*, *Ulmus*, *Populus*, on fallen willow leaves, 3.IX.1999 *Shiryayev* 8576. **Kh:** Ivdel area, Polunochnoje, mesic old-growth forest, on aspen leaves, 17.VIII.2005 *Shiryayev* 8755. **Is:** *Shiryayev* (2004b, 2006a); Ivdel area, Ous, old-growth *Picea*-dominated mesic forest, on mosses, 12.VIII.2007 *Shiryayev* 8526.

Ceratellopsis terrigena Berthier

NE • HB, SB • Cp, Frdv

On soil.

P: Krasnoufimsk area, Sarana, slope to Ufa river, broad-leaved mesic forest with *Populus*, *Ulmus*, *Acer*, *Corylus*, *Euonymus verrucosa*, on rich-soil (chernozem) on carbonate platform, 17.IX.2000 *Shiryayev* 8791. **Cl:** Shiryayev (2007f). **Bp:** Shiryayev (2006a, 2007b, 2009).

****Ceratobasidium bicorne*** J. Erikss. & Ryvarden

LC • HB, SB, MB • Cp, Fhm, Frd

On decaying wood, soil, litter, mosses.

Cl: Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, on partly buried branches of *Betula* and *Tilia*, also on litter and mosses, 21.VIII.1972 coll. *Sirko*, det. *Raitviir* (SVER(F) 41032). **Bp:** Nevjansk area, Tavatuy lake, on litter and fallen twigs, 2.IX.1969 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 41454). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, on litter and soil, 17.VIII.1971 *Sirko* (SVER(F) 42557). **Is:** Severouralsk area, Kumba mnt., old-growth *Picea*-dominated mesic forest, on fallen trunk of Siberian pine, litter and mosses around, 8.VIII.1972 *Sirko* (SVER(F) 41078).

Ceratobasidium cornigerum (Bourdot) D.P. Rogers

LC • SB, MB, NB • Cp, Fhm, Frd

On rotten wood, soil, litter and mosses.

Cl: *Stepanova* (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on corticated pine branch, 19.VIII.2002 *Kotiranta* 19694. **Bp:** Polevskoy area, Azov mnt., managed *Pinus*-dominated herb-rich forest, on fallen linden and litter, 10.VIII.1973 *Sirko* (SVER(F) 41800). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen Siberian pine, 20.VIII.1947 coll. *Stepanova*, det. *Raitviir* (SVER(F) 42309). **Is:** Ivdel area, Pelym, on litter and mosses, 25.VIII.1980 *Stepanova* (SVER(F) 40898).

****Ceratobasidium pseudocornigerum*** M.P. Christ.

LC • FS, HB • Fhm, Frd

On wood of *Quercus*, *Tilia*, leaf litter and herbs.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak and litter, 28.VIII.1960 coll. *Stepanova*, det. *Raitviir* (SVER(F) 42251). **Cl:** Nizhneserginsk area, W slope of Bardym mnt. range, on fallen trunk of linden and herbs like *Bupleurum* and *Verbascum*, 3.IX.1970 coll. *Kazantseva*, det. *Sirko* (SVER(F) 40773).

****Cerinomyces crustulinus*** (Bourdot & Galzin) G.W. Martin

LC • SB • Fhm

On *Abies* & *Pinus*.

Bp: Nevjansk area, Tavatuy lake, old-growth *Pinus*-dominated forest with *Juniperus communis*, on pine, 2.IX.1973 coll. *Sirko*, det. *Raitviir* (SVER(F) 40148). **Ks:** Kushva area, SW slope of Kedrovka mnt., old-growth *Abies*-dominated mesic forest, on fallen trunk and branches of fir, 8.IX.2001 coll. *Shiryayev*, det. *Govorova* (SVER(F) 41811).

Ceriporia excelsa (S. Lundell) Parmasto

DD • HB, SB, MB • Fhd, Frm

On *Populus*, *Ulmus*, *Sorbus*.

Cl: Shiryayev & Stavishenko (2008). **PI:** Mukhin et al. (2003). **Kh:** Stepanova (1971). **Is:** Stepanova (1971).

****Ceriporia metamorphosa*** (Fuckel) Ryvarden & Gilb.

NE • HB • Fhmv

On *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», old-growth mesic forest with *Ulmus*, *Tilia*, *Quercus*, *Sorbus*, *Frangula*, *Corylus*, *Euonymus verrucosa*, on fallen trunk of oak, 1.VIII.1962 coll. *Sirko*, det. *Kotiranta* (SVER(F) 57018 – part in H.K.).

Ceriporia purpurea (Fr.) Donk

Syn. *Meruliopsis purpurea* (Fr.) Bondartsev

LC • SB, MB • Fhm, Frd

On coniferous- and deciduous trees.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Prigorod area, Baronskoye, old-growth *Picea*-dominated mesic forest, on fallen spruce, 4.VIII.2009 *Stavishenko 711*; *ibid*, *Pinus*-dominated herb-rich old-growth forest, on trunk of pine, 4.VIII.2009 *Stavishenko 712*. **Bp:** Demidova (1963), Stepanova-Kartavenko (1967); Stepanova (1971); Sisert area, Biological Station USU, Sisert river valley, on *Sorbus*, 29.VII.1993 coll. *Bryndina*, det. *Stavishenko* (SVER(F) 55165). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971).

Ceriporia reticulata (Hoffm.) Domański

Syn. *Fibuloporia reticulata* (Hoffm.) Bondartsev

LC • FS, HB, SB, MB • Frdv, Frm

On deciduous trees.

P: Krasnoufimsk area, Sarana, Ufa river valley, on trunk of *Populus nigra*, 25.VIII.1960 coll. *Stepanova*, det. *Mukhin* (SVER(F) 54806). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Bp:** Stepanova (1971). **Is:** Ivdel area, Polunochnoje, Chernaja Parma mnt., old-growth *Picea-Pinus sibirica*

dominated mesic herb-rich forest, on fallen *Populus*, 21.VIII.1949 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 53397).

****Ceriporia subreticulata*** Ryvarden

LC • HB • Cp, Frd

On *Alnus* & *Syringa*.

P: Krasnoufimsk area, Sargaja, Ufa river valley, mesic herb-rich forest, on trunk of *Alnus glutinosa*, 28.VIII.1960 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 49490).

Cl: Nizhneserginsk area, Mikhailovsk, town park, on old stump of *Syringa villosa*, 30.VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 51655).

Ceriporia tarda (Berk.) Ginns

Syn. *Meruliopsis semitincta* (Peck) Parmasto

LC • SB • Fhm, Frd

On coniferous trees.

Cl: Stepanova-Kartavenko (1967); Stepanova (1969, 1971); *Kotiranta et al.* (2007).

Ceriporia viridans (Berk.: Broome) Donk

LC • SB, MB • Fhmv, Frdv

On deciduous trees, like *Alnus*, *Sorbus*, *Tilia*, *Ulmus*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Nevjansk area, S coast of Tavatuy Lake, old-growth *Picea*-dominated mesic heath forest with *Tilia*, *Betula*, *Populus*, *Sorbus*, *Juniperus*, on fallen trunk of linden, 7.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 53636). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova (1971).

Ceriporiopsis aneirina (Sommerf.) Domański

NT C2a(i) • SB, MB, NB • Fhm, Frd

On *Populus*.

Cl: Solovjev (1946); Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on decorticated aspen branch, together with *Scytinostroma galactinum*, 9.VIII.2002 *Kotiranta 19704*. **Bp:** Stepanova (1971); *Stavishenko* (2006); *Kotiranta et al.* (2007). **NI:** *Mukhin* (1993). **Kh:** *Stavishenko* (2003). **Is:** *Demidova* (1965); Stepanova-Kartavenko (1967); Stepanova (1971).

Ceriporiopsis gilvescens (Bres.) Domański

Syn. *Poria gilvescens* Bres.

LC • HB, SB • Fhm, Frd

On *Betula*, *Populus*, *Quercus*, *Sorbus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on fallen trunk of oak, 20.VIII.1960 *Stepanova* (SVER(F) 49763). **Cl:** *Stepanova-Kartavenko* (1967); *Kotiranta et al.* (2007). **Bp:** Sisert area, Biological station USU, managed mixed mesic herb-rich forest, on *Populus*, 16.VIII.1993 coll. *Bryndina*, det. *Kotiranta* (SVER(F) 48494).

Ceriporiopsis mucida (Pers.) Gilb. & Ryvarden

Syn. *Porpomyces mucida* (Pers.: Fr.) Gilb. & Rivarden

LC • SB • Fhm, Frd

On *Picea*, *Pinus*, *Betula*.

Cl: Stavishenko (2006); Shalya area, Shigaevo, *Abies*-dominated mesic heath forest, on spruce trunk, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 50774). **Bp:** Nevjansk area, E coast of Tavatuy Lake, old-growth *Pinus*-dominated forest with *Tilia*, *Sorbus*, *Populus*, on fallen trunk of pine, 1.VIII.1965 coll. *Sirko*, det. *Stepanova* (SVER(F) 54179).

Ceriporiopsis pseudogilvescens (Pilát) Niemelä & Kinnunen

Syn. *Poria pseudogilvescens* Pilát

LC • SB • Fhmv, Frdv

On *Betula*, *Populus*, *Salix*.

Cl: *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Bp:** *Stepanova* (1971); Sisert area, Biological station USU, old-growth *Pinus*-dominated mesic forest with *Populus*, *Betula*, *Sorbus*, *Padus*, *Alnus*, on trunk of *Betula pendula*, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 55819).

Ceriporiopsis resinascens (Romell) Domanski

LC • HB, SB, MB, NB • Fhdv, Fhmv, Frdv

On *Abies*, *Padus*, *Populus*, *Salix*.

P: *Stepanova* (1971). **Cl:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Stavishenko* (2006). **PI:** *Stepanova-Kartavenko* (1967); Tugulym area, «Pripyshminsk Bory» Nat. Park, Abram Isl., old-growth *Pinus sibirica*-dominated dry heath forest with *Larix*, *Pinus*, *Picea*, *Populus*, *Betula pendula*, *Sorbus aucuparia*, on fallen trunk of aspen, 21.VIII.2002 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 48244); *Kotiranta et al.* (2007). **ST:** *Stepanova* (1971); Verkhoturiye, Vostochny, Tura river valley, on *Salix caprea* trunk, 24.VIII.1968 coll. *Sirko*, det. *Stavishenko* (SVER(F) 53650). **Kh:** *Stavishenko* (2003). **Is:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971).

****Ceriporiopsis subvermispora*** (Pilát) Niemelä

Syn. *Gelatoporia subvermispora* (Pilát) Niemelä

EN B2ab(iii, iv); C1+2a(i); D1 • SB, MB • Fhmv, Frdv

On *Abies* & *Picea*.

Ks: Kushva area, W slope of Kedrovka mnt., old-growth *Pinus*-dominated mesic heath forest with *Tilia*, *Sorbus*, *Populus*, on partly buried and decomposed trunk of fir, 6.VIII.1946 coll. *Solovjev*, det. *Stavishenko* (SVER(F) 50629). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of spruce, 20.VIII.1947 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 55570).

Cerrena unicolor (Bull.) Murrill

LC • FS, HB, SB, MB, NB, SA • Cp, Cshi, Cr, Fh, Fr, Slf

On *Alnus*, *Betula*, *Juglans*, *Populus*, *Salix*, *Syringa*. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **KK:** Arti area, Pristan', on branch of *Alnus incana*, 11.VIII.1960 *Stepanova* (SVER(F) 48977). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin & Ushakova (2001); Prigorod area, Visim Nat. Res., Galashki, on *Betula pendula*, 17.IX.1994 *Kotiranta 11804*; Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, living birch, 13.VIII.1993 *Kotiranta 11011*; Stavishenko (2000); Ekaterinburg, Botanical Garden RAS, on branch of *Juglans manshurica* (cult.), 30.X.2008 *Shiryayev* (SVER(F) 50641); *ibid*, *Syringa amurensis* (cult.), 30.X.2008 *Almanaite* (SVER(F) 51638); Kotiranta et al. (2007). **PI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks:** Stepanova-Kartavenko (1967); Stepanova (1971). **Nm:** Stepanova-Kartavenko (1967); Stepanova (1971). **ST:** Demidova (1963), Stepanova-Kartavenko (1967); Stepanova (1971). **PT:** Gari area, Zykovo, valley of Tavda river, on *Padus*, 30.VII.1963 *Storozheva* (SVER(F) 53165). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971). **VP:** Stepanova-Kartavenko (1967); Stepanova (1971).

Chaetoderma luna (Romell ex D.P. Rogers & H.S. Jacks.) Parmasto

Syn. *Peniophora luna* Romell ex D.P. Rogers & H.S. Jacks.

LC • HB, SB, MB • Fhd, Fhm

On *Pinus*.

Bp: Nevjansk area, E coast of Tavatuy Lake, old growth *Pinus*-dominated mesic heath forest, on pine trunk, 19.VIII.1975 coll. *Stepanova*, det. *Mukhin* (SVER(F) 45952). **PI:** Stepanova (1971); Mukhin (1993). **NI:** Irbit area, Yelan', on pine

branch, 25.VIII.1963 coll. *Storozheva*, det. *Mukhin* (SVER(F) 48344). **Is:** Ivdel area, Polunochnoje, managed *Picea*-dominated mesic forest, on pine trunk, 19.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 53330).

Chondrostereum purpureum (Pers.) Pouzar

Syn. *Stereum purpureum* Pers.

LC • FS, HB, SB, MB, NB, SA • Cp, Cr, Fam, Fh, Fr

On deciduous *Acer*, *Alnus*, *Betula*, *Crataegus*, *Populus*, *Ulmus*. Widely spread and common.

P: Demidova (1963); Krasnoufimsk area, Krasnoufimsk town park, on branch of oak, 15.IX.1993 *Bryndina* (SVER(F) 51902). **KK:** Arti area, Azigulovo, on trunk of maple, 7.X.1999 *Shiryayev* (SVER(F) 55440). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006). **Bp:** Demidova (1963), Mukhin & Ushakova (2001); Ekaterinburg, Moskovskaya str., on *Acer negundo*, *Shiryayev* 23.X.2008 (SVER(F) 49632). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971), Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). Mukhin (1993). **Ks:** Naumov (1915). **Nm:** Krasnouralsk, Dachny, on *Alnus incana*, 15.VIII.1995 *Bryzgalov* (SVER(F) 45840). **ST:** Verkhoturkiye, Vostochny, managed deciduous forest, on living aspen, 13.VIII.1963 coll. *Storozheva*, det. *Stepanova* (SVER(F) 57715). **SP:** Gari area, Zykova, Tavda river valley, on birch, 9.VIII.1965 *Sirko* (SVER(F) 47226). **Kh:** Demidova (1963). **Is:** Ivdel area, Polunochnoje, on *Alnus incana*, 20.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 54161). **OU:** Ivdel area, Ous, old-growth *Picea*-dominated mesic heath forest, on trunk of aspen, 7.VIII.2007 *Shiryayev* (SVER(F) 45191).

Cinereomyces lenis (P. Karst.) Spirin

Syn. *Amyloporia lenis* (P. Karst.) Bondartsev & Singer, *Skeletocutis lenis* (P. Karst.) Niemelä

DD • HB, SB, MB • Fhdv, Frmv

On *Picea* & *Pinus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Achit area, Azigulovo, managed dry *Pinus*-dominated forest with *Tilia*, *Cotoneaster niger*, on partly buried pine branch, 7.X.1999 coll. *Shiryayev* det. *Mukhin* (SVER(F) 51503). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, old-growth *Pinus*-dominated herb rich forest, on pine trunk, 27.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 52281). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Cinereomyces lindbladii (Berk.) Jülich

Syn. *Diplomitoporus lindbladii* (Berk.) Gilb. & Ryvardeen, *Tyromyces cinerascens* (Bres.) Bondartsev & Singer

LC • HB, SB, MB • Fhm, Fhmb, Frd

On *Abies*, *Picea*, *Betula*.

P: Stepanova (1971). **CI**: Stepanova (1971); Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on large fallen spruce, also *Gloeophyllum sepiarium*, 26.VIII.2002 *Kotiranta 19826*; Kotiranta et al. (2007).

Bp: Stepanova & Mukhin (1979). **PI**: Stepanova (1971); Stepanova-Kartavenko (1967); Stepanova (1971). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971).

Cinereomyces vulgaris (Fr.) Spirin

Syn. *Polyporus byssinus* (Scop.) Pers., *Poria vulgaris* (Fr.) Cooke, *Skeletocutis vulgaris* (Fr.) Niemelä & Y.C. Dai

DD • HB, SB, MB • Fhmv, Frdv

On conifers & deciduous trees.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Pudlingovy, old-growth *Abies*-dominated mesic nemoral heath forest, on spruce trunk, 15.VIII.1965 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 50928); *ibid.*, «Nizhneirginsk oak forest», on oak, 19.IX.1997 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 54557). **CI**: Stepanova-Kartavenko (1967); Stepanova (1971). **Bp**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971); **NI**: Stepanova-Kartavenko (1967); Stepanova (1971). **ST**: Stepanova-Kartavenko (1967). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971).

Clavaria aestivalis Romagn.

LC • HB, SB • Fhmv, Frdv

On litter and mosses.

P: Krasnoufimsk area, Sarana, slope to Ufa river, broadleaved mesic forest with *Acer*, *Populus*, *Ulmus*, *Tilia*, *Euonymus verrucosa*, on rich soil (chernozem) on carbonate platform, 18.IX.1998 *Shiryayev 8609*. **CI**: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, on steppe slope to Serga river with *Ulmus*, *Tilia*, *Cotoneaster niger*, *Rosa* spp., 2.IX.2001 *Shiryayev 8517*. **Bp**: Shiryayev (2004b, 2006a). **PI**: Mukhin et al. (2003).

Clavaria amoenoides Corner, Thind & Anand

EN A2c; C2a(i,ii) • HB • Frdv

On soil in broadleaved forests.

P: Shiryayev (2006a, 2007f); Krasnoufimsk area, Chernaya Rechka, old-growth mesic broadleaved forest with *Acer*, *Populus*, *Ulmus*, *Tilia*, on rich soil (chernozem), 6.IX.2008 *Shiryayev 8567*.

Clavaria argillacea Pers.: Fr.

LC • FS, HB, SB, MB, NB, SA, AL • Ah, Cc, Fa, Fh, Fr, Fs, Rs, Rgm, Sif

On soil. Widely spread and common.

P: Shiryaev (2004b, 2006a). **PP:** Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007b, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Stepanova (1971), Stepanova & Mukhin (1979); Shiryaev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryaev (2004b, 2006a). **NI:** Shiryaev (2006a). **Ks:** Shiryaev (2004b, 2006a). **Nm:** Shiryaev (2006a). **ST:** Shiryaev (2004b, 2006a). **PT:** Shiryaev (2006a). **Kh:** Shiryaev (2004b, 2006a, 2006b). **Is:** Shiryaev (2004b, 2006a, 2007b). **OU:** Shiryaev (2004b, 2006a).

Clavaria asperulospora G. F. Atk.

DD • HB, SB • Frd, Frdv

On soil.

P: Shiryaev (2006a). **Cl:** Shiryaev (2006a); Shiryaev & Stavishenko (2008). **PI:** Shiryaev (2007c).

Clavaria citriceps G. F. Atk.

LC • SB • Fhm, Frd, Mro

On soil & mosses.

Cl: Shiryaev (2006a, 2007f); Shiryaev & Stavishenko (2008).

Clavaria falcata Pers.

Syn. *Clavaria acuta* Sowerby, *C. asterospora* Pat.

LC • FS, HB, SB, MB, NB, SA, AL • Ah, Cp, Cw, Fa, Fhm, Frd, Sll, STms

On soil and litter. Widely spread and common.

P: Shiryaev (2006a). **KK:** Shiryaev (2006a). **Cl:** Stepanova (1971); Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979); Shiryaev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryaev (2006a); **NI:** Shiryaev (2006a). **Ks:** Shiryaev (2004b, 2006a). **Nm:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **PT:** Shiryaev (2006a). **Kh:** Shiryaev (2004b, 2006a). **Is:** Shiryaev (2004b, 2006a, 2006b). **OU:** Shiryaev (2006a).

****Clavaria flavipes*** Pers.

VU A2c • HB • Frd

On soil in broadleaved forests.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus–Quercus*-dominated mesic herb-rich forest, on soil, 7.IX.2004 Shiryaev 8544.

Clavaria fragilis Holmsk.

Syn. *Clavaria vermicularis* Scop.

DD • FS, HB, SB, MB, NB • Cm, Frd

On soil. Widely spread, but not common.

P: Shiryaev (2006a). **CI:** Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2004b, 2006a). **PI:** Mukhin et al. (2003); Shiryaev (2006a). **Kh:** Stepanova (1971); Karpinsk area, Kytlym, foothills of Konzhakov Kamen mnt., meadow in the old-growth mesic forest, on soil, 22.VII.1973 coll. *I. Parmasto*, det. *Shiryaev* (TAA 90256); Shiryaev (2004b, 2006a). **Is:** Stepanova (1971); Shiryaev (2004b, 2006a). **OU:** Ivdel area, Ous, old-growth *Picea–Pinus sibirica*-dominated mesic forest, on soil, 15.VIII.2006 *Shiryaev* 8595.

Clavaria fumosa Pers.: Fr.

DD • HB, SB, MB, NB • Frd

On soil. Widely spread, but not common.

P: Shiryaev (2006a). **CI:** Shiryaev (2004b, 2006a, 2007c); Shiryaev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979); Shiryaev (2004b, 2006a). **PI:** Stepanova-Kartavenko (1967); Mukhin et al. (2003); Shiryaev (2006a). **NI:** Stepanova (1971). **Kh:** Shiryaev (2004b, 2006a). **Is:** Shiryaev (2004b). **OU:** Shiryaev (2006a).

Clavaria greletii Boud.

NT A2c+3c+4c; C1+2a(i) • HB, SB • Cm, Frd

On soil.

Bp: Shiryaev (2006a). **PI:** Shiryaev (2007c).

Clavaria incarnata Weinm.

VU B1+2ab(iii,iv,v); D1 • SB • Fhmv, Frdv

On soil.

CI: Shalya area, Shigaevo, old-growth *Pinus–Abies–Tilia*-dominated mesic herb-rich forest, on soil, 2.IX.1997 *Shiryaev* 8691. **Bp:** Shiryaev (2006a). **Ks:** Kushva area, Baranchinsky, old-growth mesic herb-rich forest, 10.IX.1999 *Shiryaev* 8613.

Clavaria oronoensis R.H. Petersen & Litten

LC • SB • Fhd, Fhm

On soil under Ericaceae.

Bp: Shiryaev (2006a). **NI:** Irbit area, Yelan', by mosses and grasses covered slope to the river Nitsa, old-growth forest with *Pinus*, *Populus*, *Sorbus*, *Tilia*, *Ulmus*, on soil under *Vaccinium* spp., 10.IX.2001 *Shiryaev* 8748.

Clavaria pullei Donk

EN B1+2; C2a(i) • SB • Fhmv, Frdv

On soil.

Cl: Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2006a).

Clavaria purpurea O. F. Müll.: Fr.

NT B2ab(iii,iv); C2a(i) • HB, SB, MB, NB • Fhm, Frd

On soil. Widely spread, but rare.

P: Shiryaev (2006a). **Cl:** Stepanova (1971); Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Stepanova (1971); Shiryaev (2004b, 2006a, 2007b, 2007f). **PI:** Mukhin et al. (2003); Shiryaev (2006a). **Ks:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **Kh:** Stepanova (1971); Shiryaev (2004b, 2006a). **Is:** Stepanova (1971); Shiryaev (2004b, 2006a). **OU:** Shiryaev (2006a).

Clavaria rosea Dalman

CR B2bc(ii,iii,iv); D1 • HB, MB • Fhmv, Frdv

On soil.

P: Shiryaev (2006a). **Cl:** Shiryaev (2006a). **Bp:** Shiryaev (2004b, 2006a). **Nm:** Nizhny Tagil area, Balakino, W slope of the hill, old-growth forest with *Pinus* and *Tilia*, on moss-covered soil, 21.IX.2002 Shiryaev 8661. **ST:** Verkhoturye area, Vostochny, mixed mesic old-growth herb-rich forest, on soil, 11.IX.2004 Shiryaev 8738.

Clavaria sphagnicola Boud.

Syn. *Clavaria argillacea* var. *sphagnicola* (Boud.) Corner

LC • SB, MB, NB • Fhm, Md, Mi, Ml, Mr

On mosses.

Cl: Shiryaev (2006a); Shiryaev & Stavishenko (2008). **Ks:** Shiryaev (2006a). **Kh:** Shiryaev (2004b, 2006a). **Is:** Shiryaev (2004b, 2006a). **OU:** Shiryaev (2006a).

Clavaria tenuipes Berk. & Broome

LC • SB • Fhm, Frd

On soil.

Cl: Shiryaev (2006a); Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2004b, 2006a, 2007b).

Clavaria zollingeri Lév.

Syn. *Clavulina amethystina* (Bull.:Fr.) Donk

EN B1+2b(ii,iii); D1 • HB, SB • Fhmv, Frdv

On soil.

P: Shiryaev (2006a, 2007b); Red Book... (2008). **Cl:** Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008); Red Book... (2008). **Bp:** Shiryaev (2004b,

2006a, 2007b); Red Book... (2008). **PI:** Stepanova (1971); Mukhin et al. (2003); Shiryayev (2006a).

Clavariadelphus ligula (Schaeff.: Fr.) Donk

LC • FS, HB, MB, NB • Fhd, Fhm

On coniferous litter. Widely spread and common.

P: Stepanova (1971); Shiryayev (2006a). **KK:** Shiryayev (2006a). **CI:** Stepanova (1971); Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007b). **PI:** Stepanova (1971); Mukhin et al. (2003); Shiryayev (2006a). **NI:** Stepanova (1971); Shiryayev (2006a). **Ks:** Naumov (1915); Stepanova (1971); Shiryayev (2006a). **Nm:** Stepanova (1971); Shiryayev (2006a). **ST:** Stepanova (1971); Shiryayev (2006a). **PT:** Stepanova (1971); Shiryayev (2006a). **Kh:** Stepanova (1971); Shiryayev (2004b, 2006a). **Is:** Stepanova (1971); Shiryayev (2004b, 2006a). **OU:** Stepanova (1971); Shiryayev (2006a).

Clavariadelphus pistillaris (L.) Donk

VU C1+2a(i) • HB, SB, MB • Fhmv, Frdv

On soil.

P: Shiryayev (2006a). **CI:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a). **PI:** Stepanova (1971); Mukhin et al. (2003); Shiryayev (2006a). **Ks:** Shiryayev (2006a). **PT:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Shiryayev (2004b, 2006a).

Clavariadelphus sachalinensis (S. Imai) Corner

LC • HB, SB, MB, NB, SA • Fhd, Fhm

On coniferous litter.

CI: Shiryayev (2006a); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Shiryayev (2004b, 2006a). **PI:** Shiryayev (2007c). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **PT:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Clavariadelphus truncatus (Quél.) Donk

EN B2a; C2a(i); D1 • HB, SB • Fhmv

On soil.

P: Shiryayev (2004, 2006a); Red Book... (2008). **CI:** Shiryayev (2006a); Red Book... (2008). **PI:** Red Book... (2008).

Clavicornia taxophila (Thom) Doty

Syn. *Clavaria mairei* Battetta, *Physalacria tuba* R. Heim

LC • SB, MB, NB, SA • Fhm, Frm, Md, MI

On dead herbs, grasses and leaves. Widely spread in boreal forests, but not common.

Cl: Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2004b, 2006a). **Nm:** Krasnouralsk, Dachny, managed mesic deciduous forest, on fallen *Alnus*- and *Salix*-leaves plus litter of grasses, 20.IX.1998 Shiryaev 8717.

Kh: Severouralsk area, Bajanovka, deciduous brook valley, on fallen *Salix*-leaves, grasses and herbs, 21.VIII.2005 Shiryaev 8846. **Is:** Shiryaev (2004b, 2006a).

Clavulicium delectabile (H.S. Jacks.) Hjortstam

NT A3c; B2ab(iii) • HB, SB • Fhm, Frd

On soil and litter.

P: Arti area, Ust-Ugush, southern slope, mixed forest with *Pinus*, *Tilia*, *Acer platanoides*, *Sorbus aucuparia*, *Populus*, on soil, 14.VIII.1970 coll. Sirko, det. Kotiranta (SVER(F) 57017 – part in H.K.). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, luxuriant forest with *Pinus*, *Tilia*, *Larix*, *Ulmus glabra*, *Sorbus aucuparia*, *Populus* with vascular plants like *Melampyrum*, *Pteridium*, *Festuca*, *Melica*, on soil, 2.IX.2004 coll. Shiryaev, det. Kotiranta (SVER(F) 57015 – part in H.K.); Shiryaev & Stavishenko (2008).

****Clavulicium spurium*** (Bourdot) J. Erikss. & Hjortstam

Syn. *Membranomyces spurius* (Bourdot) Jülich

LC • SB • Frdv

On litter.

Cl: Shalya area, Shigaevo, old-growth *Pinus*-dominated herb-rich forest with *Tilia*, *Ulmus*, *Sorbus*, *Rhamnus*, on fallen leaves, dead grasses and mosses, 3.IX.2000 coll. Shiryaev, det. Kotiranta (SVER(F) 54648).

Clavulicium vinoscabens (Burt) Pouzar

Syn. *Clavulicium macounii* Peck

LC • HB, SB • Frdv

On *Abies* & *Pinus*.

Cl: Shiryaev & Stavishenko (2008). **PI:** Mukhin et al. (2003).

Clavulina cinerea (Bull.: Fr.) J. Schröt.

Incl. *Clavulina amethystinoides* (Peck) Corner

LC • FS, HB, SB, MB, NB, SA, AL • Ah, Am, Cc, Cp, Csg, Fa, Fh, Fr, Fs, Rs, Rg, Sif, Sls, STm

On soil, litter and decaying wood. Widely spread and common.

P: Stepanova (1971); Shiryaev (2006a). **KK:** Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979); Shiryaev (2004b, 2006a, 2007b). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin et al. (2003); Shiryaev (2006a). **NI:** Stepanova-Kartavenko (1967);

Stepanova (1971); Shiryaev (2006a). **Ks:** Shiryaev (2006a). **Nm:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **PT:** Shiryaev (2006a). **Kh:** Shiryaev (2004b, 2006a, 2006b). **Is:** Shiryaev (2004b, 2006a, 2007b). **OU:** Shiryaev (2006a).

Clavulina coralloides (L.) J. Schröt.

Syn. *Clavulina cristata* (Holmsk.: Fr.) J. Schröt.

LC • FS, HB, SB, MB, NB, SA, AL • Ah, Cc, Cp, Cw, Fa, Fh, Fr, Fs, Rs, Rg, SIm, SIs, STh, STm

On soil, litter and decaying wood. Widely spread and common.

P: Shiryaev (2006a). **KK:** Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007b, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Demidova (1963), Stepanova (1971); Stepanova & Mukhin (1979); Shiryaev (2004b, 2006a, 2007b). **PI:** Stepanova (1971); Mukhin et al. (2003); Shiryaev (2006a). **NI:** Stepanova (1971); Shiryaev (2006a). **Ks:** Shiryaev (2006a). **Nm:** Shiryaev (2006a). **PT:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **Kh:** Shiryaev (2004b, 2006a). **Is:** Stepanova (1971); Shiryaev (2004b, 2006a). **OU:** Shiryaev (2006a).

Clavulina ornatipes (Peck) Corner

NA • SB • Cp

On soil in tropical glasshouses, not found in nature.

Bp: Shiryaev (2007b, 2008e).

Clavulina rugosa (Bull.: Fr.) J. Schröt.

LC • FS, HB, SB, MB • Cc, Cm, Fh, Fr, Fs, SIm, STh, STm

On soil and litter. Widely spread, but not common.

P: Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2006a, 2007b). **PI:** Stepanova (1971); Mukhin et al. (2003); Shiryaev (2006a). **NI:** Shiryaev (2006a). **Ks:** Shiryaev (2006a). **Nm:** Shiryaev (2006a). **PT:** Shiryaev (2006a). **Kh:** Karpinsk area, Kytlym, foothills of Konzhakov Kamen mnt., on soil under *Padus racemosa*, 23.VII.1973 coll. I. Parmasto, det. Shiryaev (TAA 90311); Shiryaev (2004b, 2006a). **Is:** Shiryaev (2004b, 2006a).

Clavulinopsis aurantiocinnabarina (Schw.) Corner

NA • SB • Cp

On soil in tropical glasshouses, not found in nature.

Bp: Shiryaev (2007b, 2008e).

Clavulinopsis corniculata (Pers.: Fr.) Corner

Syn. *Clavaria fastigiata* L., *C. muscoides* Sowerby, *C. pratensis* Pers.

LC • FS, HB, SB, MB • Cm, Fhm, Frd, Rl, Sh

On soil and litter. Widely spread, but not common.

P: Shiryayev (2006a). **KK:** Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007b). **PI:** Stepanova (1971); Mukhin et al. (2003). Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **PT:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2006a). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Clavulinopsis fusiformis (Fr.) Corner

NT B2ab(iii) • FS, HB, SB • Fhm, Frd, Fsm

On soil.

P: Shiryayev (2006a). **KK:** Shiryayev (2006a). **Cl:** Shiryayev (2006a); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2006a). **PI:** Shiryayev (2006a, 2007c). **NI:** Shiryayev (2006a). **Nm:** Shiryayev (2006a).

Clavulinopsis helvola (Pers.: Fr.) Corner

LC • FS, HB, SB, MB, NB, SA • Ah, Am, Ch, Cm, Cw, Mr, Fhm, Frd, Frm, Slm

On soil and litter. Widely spread and common.

P: Shiryayev (2006a). **Cl:** Stepanova (1971); Shiryayev (2004b, 2006a, 2007b); Shiryayev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007b). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **PT:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Stepanova (1971); Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Clavulinopsis laeticolor (Berk. & M.A. Curt.) R. H. Petersen

Syn. *Clavulinopsis pulchra* (Peck) Corner

DD • FS, HB, SB, MB • Cp, Fhm, Frd, Fsm, RI

On soil & litter.

P: Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007b); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Shiryayev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **Is:** Shiryayev (2006a).

Clavulinopsis luteoalba (Rea) Corner

Syn. *Clavulinopsis filipes* Corner

LC • HB, SB, MB, NB • Fhd, Fhm, Frd

On litter.

Cl: Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Shiryayev (2004b, 2006a).

Clavulinopsis luteo-ochracea (Cavara) Corner**DD** • SB, MB, NB, SA • Fh, Rg, Sll, Slm

On soil.

NI: Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Shiryayev (2006a). **OU:** Shiryayev (2006a).***Clavulinopsis rufipes*** (G.F. Atk.) CornerSyn. *Clavulinopsis microspora* (Joss.) Corner**NT C2a(i)** • SB • Fhmv, Frdv

On litter.

Cl: Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a). **NI:** Shiryayev (2006a). **Nm:** Shiryayev (2006a).***Clavulinopsis umbrinella*** (Sacc.) CornerSyn. *Clavulinopsis cinereoides* (G. F. Atk.) Corner**NT A2c+3c+4c; B2ab(ii,iii,iv); C1+2a(i)** • HB, SB, MB • Cm, Fhm, Frd

On soil, litter and mosses.

P: Krasnoufimsk area, Sarana, slope to Ufa river, broadleaved mesic forest with *Acer*, *Populus*, *Ulmus*, *Tilia*, *Euonymus verrucosa*, on rich soil (chernozem), on carbonate platform, 18.IX.1998 *Shiryayev 8612*. **Cl:** Shiryayev (2004b, 2006a); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a). **PI:** Shiryayev (2007c). **NI:** Turinsk area, Gorodische, herb-rich mesic forest with *Pinus*, *Betula*, *Sorbus*, *Padus*, on litter and soil, 29.VIII.1998 *Shiryayev 8769*. **Ks:** Kushva area, W slope of Kedrovka mnt., on litter and soil between grasses in old-growth *Pinus*-dominated forest, 4.IX.1999 *Shiryayev 8705*. **Is:** Karpinsk area, Volchansk, Makar'evka, SW slope of Sosnovaja mnt., on litter and mosses on meadow, 13.IX.2004 *Shiryayev 8500*.***Climacocystis borealis*** (Fr.) Kotl. & Pouzar**LC** • HB, SB, MB, NB • Fhm, Fhmb, FhmvOn *Abies*, *Picea* and *Pinus sibirica*. Widely spread and common in dark coniferous taiga, but practically absent in light coniferous forests.**P:** Stepanova-Kartavenko (1967); Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on spruce stump, also *Pseudohydnum gelatinosum*, 26.VIII.2002 *Kotiranta 19823*; Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Demidova (1965); Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Molebny Kamen' mnt. range, on stump of spruce, 17.VIII.2005 *Kotiranta (SVER(F) 51131)*. **Is:** Stepanova-Kartavenko (1967);

Stepanova (1971). **OU**: Ivdel area, Ous, old-growth *Picea–Pinus sibirica* dominated mesic forest, on Siberian pine stump, 7.VIII.2007 *Shiryayev* (SVER(F) 57821).

Climacodon pulcherrimus (Berk. & M.A. Curtis) M.I. Nikol.

DD • SB • Fhmv

On *Betula*.

CI: Stepanova (1971); Stavishenko (2006).

Climacodon septentrionalis (Fr.) P. Karst.

LC • FS, HB, SB, MB • Frd

On deciduous trees.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **CI**: Stepanova-Kartavenko (1967); Stepanova (1971); Red Book... (2008); *Shiryayev* & Stavishenko (2008). **Bp**: Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Red Book... (2008); Sisert area, Biological station USU, managed *Pinus*-dominated herb rich forest, on erect stump of birch, 30.VI.2009 *Shiryayev* (SVER(F) 53149). **NI**: Stepanova-Kartavenko (1967); Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Red Book... (2008). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971).

****Colacogloea peniophorae*** (Bourdot & Galzin) Oberw. & Bandoni

Syn. *Achroomyces peniophorae* (Bourdot & Galzin) Wojewoda

NE • HB, SB • Fhm, Frd

Parasite on *Peniophorella praetermissa*.

P: Krasnoufimsk area, Sargaja, on *Corylus/Peniophorella praetermissa*, 28.VIII.1970 coll. *Kazantseva*, det. *Raitviir* (SVER(F) 40597). **Bp**: Sisert area, Biological station USU, on *Pinus/Peniophorella praetermissa*, 2.IX.2004 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42942).

****Coltricia cinnamomea*** (Jacq.) Murill.

CR B1+2ab(iii) • HB • Frdv

On soil.

P: Krasnoufimsk distr., Sarana, in mesic old-growth herb-rich broad-leaved forest with *Acer*, *Populus*, *Ulmus*, *Corylus*, on rich soil (chernozem), 15.VIII.1960 coll. *Stepanova*, det. *Almanaite* (SVER(F) 55732).

Coltricia perennis (L.) Murril

LC • FS, HB, SB, MB, NB, SA • Cp, Cr, Fhd, Rs, Rg, Slr, SlS

On sandy and stony soils in pine and birch forests. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **KK**: Arti area, Pristan', on sandy soil in *Pinus–Betula*-dominated forest, 19.IX.1997 *Shiryayev* (SVER(F) 49866).

Cl: Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Ks:** Stepanova-Kartavenko (1967); Stepanova (1971). **Nm:** Stepanova-Kartavenko (1967); Stepanova (1971). **ST:** Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Ous, old-growth *Pinus*-dominated dry forest, 7.VIII.2007 *Shiryayev* (SVER(F) 55324). **VP:** Stepanova-Kartavenko (1967); Stepanova (1971).

Conferticium ochraceum (Fr.) Hallenb.

Syn. *Corticium ochraceum* (Fr.) Fr., *Gloeocystidiellum ochraceum* (Fr.: Fr.) Donk

LC • HB, SB, MB, NB • Fhm

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

Cl: Stepanova-Kartavenko (1967); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on decorticated pine branch, 19.VIII.2002 *Kotiranta 19702*; Stavishenko (2006). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta 20882*; *ibid*, on corticated spruce, 12.VIII.2005 *Kotiranta 20943*; *ibid*, on decayed trunk of conifer, 12.VIII.2005 *Kotiranta 20971*. **Is:** Stepanova-Kartavenko (1967). **VP:** Stepanova-Kartavenko (1967).

Conferticium ravum (Burt) Ginns & Freeman

Syn. *Conferticium karstenii* (Bourdot & Galzin) Hallenb.

LC • HB, SB, MB • Fhm

On deciduous trees.

PI: Mukhin (1993); Mukhin et al. (2003). **PI:** Stepanova (1971). **Is:** Stepanova (1971).

Coniophora arida (Fr.) P. Karst.

Syn. *Coniophora betulae* P. Karst.

LC • FS, HB, SB, MB, NB • Fhm, Frd

On *Abies*, *Picea*. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006). **Bp:** Demidova (1963); Stepanova (1971). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993);

Mukhin et al. (2003). **NI**: Mukhin (1993). **Ks**: Stepanova-Kartavenko (1967); **ST**: Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta* 20935. **Is**: Stepanova-Kartavenko (1967); Stepanova (1971).

***Coniophora fusispora** (Cooke & Ellis) Cooke

LC • HB, SB, MB • Fhd, Fhm, Frd

On *Pinus*.

Bp: Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on fallen pine, 13.VIII.1993 *Kotiranta* 11022a. **PI**: Talitsa area, «Pripyshminsk Bory» Nat. Park, on fallen Siberian pine, 20.VIII.1952 Stepanova (SVER(F) 52392). **NI**: Tavda area, on decomposed pine, 9.VIII.1955 Stepanova (SVER(F) 54669). **Is**: Ivdel area, Polunochnoje, managed *Pinus-P. sibirica*-dominated dry forest, on fallen trunk of pine, 18.VIII.2005 Shiryayev & *Kotiranta* SVER(F) 49823).

Coniophora olivacea (Pers.: Fr.) P. Karst.

Syn. *Coniophorella umbrina* (Alb. & Schwein.) Bres.

LC • FS, HB, SB, MB, NB • Fhd, Fhm, Fsm

Mostly on *Abies* or *Picea*, seldom on *Alnus*. Widely spread and common.

P: Stepanova (1971). **CI**: Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, old-growth *Abies sibirica*-dominated forest, on fallen fir trunk, 17.IX.1994 *Kotiranta* 11841; Stavishenko (2006). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI**: Mukhin (1993). **ST**: Stepanova-Kartavenko (1967); Stepanova (1971). **Kh**: Karpinsky area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 20.VIII.1947 Stepanova (SVER(F) 52535); Stepanova (1971); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta* 20886 & 20941; *ibid*, on decayed coniferous trunk, 12.VIII.2005 *Kotiranta* 20969b. **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Stepanova-Kartavenko (1967); Stepanova (1971).

Coniophora puteana (Schumach.) P. Karst.

LC • FS, HB, SB, MB, NB, SA, AL • Fa, Fhm, Frd, Fsm

On coniferous trees. Widely spread and common.

P: Stepanova (1971). **KK**: Stepanova (1971). **CI**: Stepanova-Kartavenko (1967); Stepanova (1971). **Bp**: Demidova (1963); Stepanova (1971). **PI**: Stepanova (1971). **NI**: Stepanova (1971); Mukhin (1993). **Nm**: Stepanova (1971). **Ks**: Stepanova

(1971). **ST:** Stepanova (1971). **Kh:** Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of conifer, 20.VIII.1947 Stepanova (SVER(F) 49113). **Is:** Stepanova (1971). **OU:** Stepanova (1971).

Corticium boreoroseum Boidin & Lanquetin

Syn. *Laeticorticium lundellii* J. Erikss.

LC • SB, MB • Fhm

On litter in coniferous forests.

Cl: Shalya area, Shigaevo, old-growth *Abies*-dominated mesic heath forest with *Tilia*, *Ulmus*, *Populus*, *Sorbus*, *Frangula*, on fallen branches, 2.IX.2000 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 55169). **Is:** Stepanova (1971).

****Corticium erikssonii*** Jülich

Syn. *Laeticorticium pulverulentum* J. Erikss. & Ryvarden

LC • HB, SB • Frd

On *Populus*.

P: Achit area, Korzunovka, old-growth *Abies*-dominated mesic forest, on aspen, 17.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 50750). **Bp:** Sisert area, Biological Station USU, old-growth *Pinus*-dominated mesic herb-rich forest with *Populus*, *Betula*, *Padus*, *Alnus*, on fallen branch of aspen, 25.VIII.2006 *Shiryayev* & *Kotiranta* (SVER(F) 57064).

Corticium polygonoides P. Karst.

Syn. *Laeticorticium polygonioides* (P. Karst.) Donk

LC • HB, SB • Cp, Fhm

On *Populus* & *Salix*.

Cl: *Shiryayev* & *Stavishenko* (2008). **Bp:** Sisert area, Verkh Sisert, on aspen branch, 9.VIII.1969 coll. *Sirko*, det. *Stepanova* (SVER(F) 52517); *Stepanova* (1971); Ekaterinburg, Botanical Garden RAS, on fallen branch and bark of *Populus nigra*, 20.X.2008 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56703). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, Gurino, on fallen branches of willows, 19.VIII.1954 *Stepanova* (SVER(F) 54794).

****Corticium quercicola*** Jülich

LC • HB, SB • Cp, Frd

On twigs of *Quercus*.

P: Krasnoufimsk area, Sarana, on oak debris, 29.VIII.1970 coll. *Sirko*, det. *Stepanova* (SVER(F) 56684). **Bp:** Ekaterinburg, Botanical garden RAS, on fallen twigs of oak, 11.X.2008 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 52896).

Corticium roseum Pers.

Syn. *Aleurodiscus roseus* (Pers.) Höhn. & Litsch., *Laeticorticium roseum* (Pers.) Donk

LC • FS, HB, SB, MB, NB • Cp, Fhm, Frd

On *Salix*, *Populus*, *Padus*, *Betula*

P: Stepanova (1971). **Cl:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., on fallen branches *Salix caprea*, 17.IX.1994 *Kotiranta 11792*; Stavishenko (2006); Shiryayev & Stavishenko (2008). **Bp:** Demidova (1963); Ekaterinburg, Botanical Garden RAS, on branch of *Populus alba*, 11.X.2008 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57102). **PI:** Mukhin (1993). **NI:** Mukhin (1993). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen aspen, 20.VIII.1947 *Stepanova* (SVER(F) 48224); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Cotylidia undulata (Fr.) P. Karst.

LC • HB, SB • Fhm

On sandy soil.

Bp: Stepanova (1971). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, Bakhmetskoje Bog surrounds, on sandy soil, 21.IX.2002 *Shiryayev* (SVER(F) 55192).

Craterellus cornucopioides (L.) Pers.

DD • HB, SB • Fhm, Frd

On soil.

P: Krasnoufimsk area, Chernaja Rechka, *Abies*-dominated mesic forest with *Tilia*, *Acer*, *Ulmus*, *Corylus*, on soil, 15.VIII.2006 *Shiryayev* (SVER(F) 49992). **Cl:** Shiryayev & Stavishenko (2008). **PI:** Shiryayev (2007c).

Craterocolla cerasi (Tul.) Bref.

Syn. *Ditangium insigne* P. Karst.

LC • HB, SB • Frd

On *Corylus* & *Populus*.

P: Krasnoufimsk area, Sargaja, on *Corylus*, 17.VIII.1979 coll. *Stepanova*, det. *Almanaita* (SVER(F) 42874). **Cl:** Stepanova (1972); Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, old-growth *Abies*-dominated mesic herb-rich forest, on *Populus*, 7.VIII.1972 coll. *Sirko*, det. *Raitviir* (SVER(F) 41913).

Cristinia helvetica (Pers.) Parmasto

Syn. *Grandinia helvetica* (Pers.) Fr.

LC • HB, SB • Frdv, Frm, Frmv

On deciduous trees.

P: Achit area, Korzunovka, old-growth forest, on linden branch, 17.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 47728). **Cl:** Shiryayev & Stavishenko (2008).

Bp: Stepanova (1971); Stepanova & Mukhin (1979). **Ks:** Kushva area, W slope of Kedrovka mnt., old-growth *Pinus*-dominated mesic herb-rich forest, on fallen trunk of *Sorbus*, 7.IX.2004 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 50393).

Crustoderma dryinum (Berk. & M.A. Curtis) Parmasto

Syn. *Coniophorella laeticolor* (P. Karst.) Pilát

LC • FS, HB, SB, MB, NB, SA, AL • Cc, Cp, Fa, Fh, Frdh, Fs

On coniferous trees. Widely spread, but not common.

P: Krasnoufimsk area, Sarana, on fir trunk, 22.VIII.1969 *Kazantseva* (SVER(F) 46334). **Cl:** Stavishenko (2006). **Bp:** Sisert area, Biological Station USU, managed *Pinus*-dominated dry forest, on pine trunk, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 47987). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on spruce branch, 23.VIII.1954 coll. *Stepanova*, det. *Mukhin* (SVER(F) 51528). **NI:** Mukhin (1993). **Ks:** Stepanova (1971). **Nm:** Krasnouralsk, Dachny, on pine branch, 19.VIII.1995 coll. *Bryzgalov*, det. *Stavishenko* (SVER(F) 54195). **ST:** Verkhoturiye, Vostochny, on spruce branch, 13.VIII.1962 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 56564). **PT:** Stepanova (1971). **Kh:** Stepanova (1971). **Is:** Stepanova (1971). **OU:** Ivdel area, Ous, old-growth *Picea–Pinus sibirica*-dominated mesic forest, on fullen branch of Siberian pine, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58456).

Crustomyces subabruptus (Bourdot & Galzin) Jülich

Syn. *Odontia subabrupta* Bourdot & Galzin

DD • HB, SB • Fhm

On *Populus* & *Ulmus*.

P: Stepanova (1971). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, corticated aspen, together with *Datronia mollis*, *Peniophora cinerea*, 19.VIII.2002 *Kotiranta 19663*; *Shiryayev & Stavishenko* (2008).

Cylindrobasidium evolvens (Fr.) Jülich

Syn. *Corticium evolvens* (Fr.) Fr., *Cylindrobasidium laeve* (Pers.) Chamuris

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Fhd, Frd, Sif

On deciduous and more seldom on coniferous trees. Widely spread and common.

P: Achit area, Korzunovka, on maple branch, 22.VIII.1960 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 51508). **KK:** Stepanova (1971). **Cl:** Revda area, Khomutovka,

polluted river-side thicket forest with *Salix* spp., *Padus*, *Picea*, on corticated *Padus* branch, also *Pseudochaete tabacina*, *Phlebia radiata*, *Peniophora cinerea*, 26.VIII.2002 *Kotiranta 19811*; Prigorod area, Visim Nat. Res., Galashki, on trunk of *Tilia*, 18.IX.1994 *Kotiranta 11833*. **Bp**: Demidova (1963); Stepanova & Mukhin (1979); Mukhin & Ushakova (2001); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, hard, decorticated pine, together with *Phlebia gigantea*, *Phlebiella sulphurea*, 25.VIII.2002 *Kotiranta 19750*; Stavishenko (2006). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin et al. (2003). **NI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **ST**: Stepanova-Kartavenko (1967). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Kazansky Kamen mt. range, eastern slope, mixed old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen aspen, 20.VIII.1947 *Stepanova* (SVER(F) 48478). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Ivdel area, Ous, on partly buried branch of birch, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57966).

****Cystobasidium hypogymniicola*** Diederich & Ahti

NE • **MB** • **Fhm**

On *Hypogimnia physodes*.

Ks: Kushva area, W slope of Kedrovka mt., on *Hypogimnia physodes* on erect *Populus* in *Pinus*-dominated mesic forest, 24.X.2008 *Almanaite* (SVER(F) 42648); *ibid.*, Baranchinsky, Delyanochnaja mt., on *Hypogimnia physodes* on *Betula pendula*, 25.X.2008 *Almanaite* (SVER(F) 42654).

Cystostereum murrayi (Berk. & M.A. Curtis) Pouzar

Syn. *Stereum tuberculosum* Fr.

LC • **HB**, **SB**, **MB**, **NB**, **SA** • **Fhd**, **Fhdv**, **Fhm**, **Fhmv**

On *Abies* & *Picea*. Widely spread and common.

P: Stepanova (1971). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1969, 1971); Prigorod area, Visim Nat. Res., Galashki, on trunk of fir, 17.IX.1994 *Kotiranta 11763*; *ibid.*, on *Picea*, 18.IX.1994 *Kotiranta 11817*; Stavishenko (2006). **Bp**: Sisert area, Biological Station USU, on spruce fire wood, 27.VIII.2007 *Shiryayev* & *Kotiranta* (SVER(F) 53282). **NI**: Mukhin (1993). **Ks**: Stepanova (1971). **Nm**: Stepanova (1971). **ST**: Stepanova (1971). **Kh**: Karpinsk area, Kazansky Kamen mt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 20.VIII.1947 *Stepanova* (SVER(F) 48753); Ivdel area, Molebny Kamen mt. range, eastern slope of Oykachakhl mt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta 20867* & *20873*; *ibid.*, on corticated fir, 12.VIII.2005 *Kotiranta 20875*, *20920*, *20967*. **Is**: Ivdel area, Chernaja Parma mt., on spruce branch, 17.VIII.1961 coll.

Storozheva, det. *Stavishenko* (SVER(F) 47847). **OU**: Ivdel area, Ous, on spruce trunk, 10.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57946).

Cytidia salicina (Fr.) Burt

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Fa, Fh, Fr, Sif

On *Salix*. Widely spread and common.

P: Krasnoufimsk area, Krasnoufimsk, Ufa river valley, on willow twigs and branches, 2.IX.1999 coll. *Golumbievskaya*, det. *Shiryayev* (SVER(F) 45202). **KK**: Stepanova (1971). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on dead willow twigs, 26.VIII.2002 *Kotiranta 19806*. **Bp**: Sisert area, Biological Station USU, Sisert river valley, on willow, 27.VIII.2004 *Shiryayev* (SVER(F) 48605). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971). **NI**: Stepanova (1971). **Ks**: Stepanova (1971). **Nm**: Kushva area, Serebrjanaja river valley, on willow, 30.VII.1973 *Stepanova* (SVER(F) 48585). **ST**: Stepanova (1971). **PT**: Stepanova (1971). **Kh**: Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead branch of willow, 20.VIII.1947 *Stepanova* (SVER(F) 46964). **Is**: Ivdel area, Ous, Ous river valley, on willows branches, 8.VIII.2006 *Shiryayev* (SVER(F) 57988). **OU**: Stepanova (1971). **VP**: Ivdel area, Yurta Pelikova, bog margin, on willow, VIII.1974 coll. *Poptsov*, det. *Stepanova* (SVER(F) 45293).

D

Dacrymyces capitatus Schwein.

Syn. *Dacrymyces ellisii* Coker

LC • HB, SB • Fhm

On twigs of coniferous and deciduous trees and dead herbs.

Cl: Pervouralsk, Bilimbay, on branch and twigs of *Abies*, 27.X.2008 *Almanaite* (SVER(F) 42923). **Bp**: Stepanova (1971, 1972); Ekaterinburg, Botanical Garden USU, on dead dried *Brassica* sp., 4.IX.1973 coll. *Sirko*, det. *Raitviir* (SVER(F) 41918). **PI**: Stepanova (1972).

Dacrymyces chrysocomus (Bull.) Tul.

Sun. *Guepiniopsis chrysocoma* (Bull.) Brasf.

LC • HB, SB, MB • Fhm

On coniferous trees.

P: Achit area, Korzunovka, on *Abies*, 28.VIII.1960 coll. *Stepanova*, det. *Sirko*

(SVER(F) 40397). **Cl:** Stepanova (1971); Shalya area, Shigaev, on *Pinus*, 3.IX.2000 coll. *Shiryaev*, det. *Almanaite* (SVER(F) 42797). **Is:** Ivdel area, Chernaja Parma mt., on Siberian pine, 9.VIII.1969 coll. *Sirko*, det. *Raitviir* (SVER(F) 41155).

Dacrymyces chryospermus Berk. & M.A. Curtis

Syn. *Tremella palmata* Schwein. nom. illeg.

LC • HB, SB, MB • Fhm

On coniferous trees.

P: Krasnoufimsk area, Sarana, on *Abies*, 30.VIII.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 42514). **Cl:** Stepanova (1971). **Bp:** Nevjansk area, Tavatuy lake, on *Picea*, 28.VIII.1972 *Sirko* (SVER(F) 40628). **PI:** Mukhin (1993); Mukhin et al. (2003). **Kh:** Ivdel area, Molebny Kamen mt. range, subalpine belt, on *Juniperus sibirica*, 13.VIII.2005 coll. *Shiryaev*, det. *Almanaite* (SVER(F) 42785).

****Dacrymyces enatus*** (Berk. & M.A.Curtis) Masee

NE • SB • Frd

On *Alnus*.

Cl: Nizhneserginsk area, W slope of Bardym mt. range, managed *Abies*-dominated mesic herb-rich forest, on dead branch of *Alnus*, 4.IX.2001 coll. *Shiryaev*, det. *Govorova* (SVER(F) 43699).

Dacrymyces lacrymalis (Pers.) Sommerf.

LC • SB, MB • Fhm, Frd

On branches and twigs of *Alnus*, *Betula*.

Cl: Nizhneserginsk area, «Mikhailovsk Zavod», W slope of Bardym mt. range, on *Betula*, 28.VIII.1969 coll. *Sirko*, det. *Raitviir* (SVER(F) 40040 – part in TAA). **Bp:** Stepanova (1971). **Ks:** Stepanova (1971). **Is:** Ivdel area, Toshemka, on *Alnus incana*, 14.VIII.1975 *Stepanova* (SVER(F) 40432).

Dacrymyces minor Peck

LC • FS, HB, SB, MB • Fhm

On deciduous trees.

P: Krasnoufimsk area, Chernaya Rechka, moist old-growth forest, on twigs and branches of *Sorbus aucuparia*, together with *Tremella giraffa*, 30.VIII.1999 coll. *Golumbievskaya*, det. *Shiryaev* (SVER(F) 42817). **Cl:** Nizhneserginsk area, «Mikhailovsk Zavod», on *Betula*, 31.VIII.1974 *Sirko* (SVER(F) 40868). **Bp:** Stepanova (1971, 1972). **PI:** Talitsa area, Budka, on *Salix caprea*, with *Tremella obscura* as parasite, 15.VIII.1968 coll. *Sirko*, det. *Raitviir* (SVER(F) 40536). **PT:** Gari area, Zykova, on *Alnus*, 8.VIII.1971 *Sirko* (SVER(F) 40903). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on *Sorbus*, 20.VIII.1972 coll.

Stepanova, det. *Almanaite* (SVER(F) 41694). **Is**: Severouralsk area, Kumba mnt., on *Padus*, 13.VIII.1997 coll. *Shiryayev*, det. *Govorova* (SVER(F) 43851).

****Dacrymyces stillatus*** Nees : Fr.

Syn. *Dacrymyces deliquescens* (Merat) Duby

LC • HB, SB, MB, NB • Fhd, Fhm

On *Abies*, *Larix*, *Picea*, *Pinus*, very seldom on deciduous trees. Widely spread.

P: Achit area, Korzunovka, on *Abies*, 23.VIII.1978 *Stepanova* (SVER(F) 41660). **Cl**: Shalya area, Shigaev, on *Betula* with *Tremella giraffa*, 14.IX.1998 coll. *Shiryayev*, det. *Govorova* (SVER(F) 42424); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Pinus-Larix-Betula pubescens*-dominated forest, on fallen branches of birch, with *Tremella obscura* as parasite, 11.IX.1996 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42235). **PI**: Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Pinus*, 2.IX.1969 *Sirko* (SVER(F) 41023). **ST**: Verkhoturiye, Vostochny, on *Picea*, 22.VIII.1963 coll. *Storozheva*, det. *Sirko* (SVER(F) 40959). **Kh**: Karpinsk area, Konzhakov Kamen mnt. range, subalpine belt, on *Larix*, 14.VIII.1946 coll. *Solovjev*, det. *Stepanova* (SVER(F) 40003). **Is**: Severouralsk area, Bajanovka, on *Picea*, 6.VIII.2005 *Kotiranta & Mukhin* (SVER(F) 42829). **OU**: Ivdel area, Ous, on Siberian pine, 7.VIII.2007 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42913).

****Dacrymyces tortus*** (Willd. : Fr.) Fr.

Syn. *Dacrymyces punctiformis* Neuhoff

LC • HB, SB, MB • Fhd, Fhm

On *Picea* & *Pinus*. Widely spread.

P: Krasnoufimsk area, Sargaja, on *Pinus*, 28.VIII.1970 coll. *Kazantseva*, det. *Stepanova* (SVER(F) 40641). **Cl**: Shalya area, Shigaev, on *Picea*, 4.VIII.2007 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42224). **Bp**: Sisert area, Biological Station USU, on *Pinus*, 25.VI.1992 coll. *Mukhin*, det. *Almanaite* (SVER(F) 41643). **PI**: Talitsa area, «Pripyshminsk Bory» Nat. Park, on *Pinus*, 5.VI.2008 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42946). **Is**: Severouralsk area, Vsevolodo-Blagodatskoje, on Siberian pine, 9.VIII.1971 *Sirko* (SVER(F) 40889).

****Dacryobolus karstenii*** (Bres.) Oberw. & Parmasto

LC • HB, SB, MB, NB • Fhd, Fhm

On *Pinus*. Widely spread.

Cl: Nevjansk area, Tavatuy Lake, on pine trunk, 19.VIII.1965 coll. *Sirko*, det. *Stavishenko* (SVER(F) 57327). **Bp**: Sisert area, Biological Station USU, managed *Pinus*-dominated mesic forest, on pine branch, 28.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 56467). **PI**: Talitsa area, «Pripyshminsk Bory» Nat. Park, on pine, 16.VIII.1952 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 56180). **Is**: Ivdel area, Chernaja Parma mnt., old growth forest, on pine trunk, 13.VIII.1962 coll. *Storozheva*, det. *Parmasto* (SVER(F) 52772).

Dacryobolus sudans (Alb. & Schwein.) Fr.**LC** • FS, HB, SB, MB, NB • Fhd, Fhm, FrdOn *Pinus*, rarely on *Abies*. Widely spread.

P: Achit area, Korzunovka, old-growth forest, on fallen branch of fir, 20.VIII.1960 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 49999). **Cl:** Shiryayev & Stavishenko (2008). **Bp:** *Stepanova* (1971); *Stepanova & Mukhin* (1979); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine branch, 25.VIII.2002 *Kotiranta* 19757; *ibid.*, on decorticated pine branch, 25.VIII.2002 *Kotiranta* 19784. **PI:** *Stepanova* (1971). **Kh:** Severouralsk area, Kumba mnt., on branch of Siberian pine, 17.VIII.1947 coll. *Solovjev*, det. *Stavishenko* (SVER(F) 48362). **Is:** *Stepanova* (1971). **OU:** Ivdel area, Ous, old-growth *Picea–Pinus sibirica*-dominated mesic forest, on trunk of Siberian pine, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 55427).

****Dacryonaema rufum*** (Fr. : Fr.) Nannf.**LC** • HB, SB • FhmOn *Abies*.

P: Achit area, Korzunovka, 28.VIII.1960 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40134). **Cl:** Nizhneserginsk area, Bazhukovo, 21.X.2008 *Almanaite* (SVER(F) 42846).

Daedalea quercina (L.) Pers.**CR D1** • HB • Fhm, FrdvOn *Quercus*.

P: *Stepanova* (1971); Red Book... (1996); Krasnoufmsk area, «Nizhneirginsk oak forest», on oak stump, 14.VIII.2006 *Shiryayev* (SVER(F) 58838). **Cl:** *Stepanova* (1971).

Daedaleopsis confragosa (Bolton) J. Schröt.**LC** • FS, HB, SB, MB, NB, SA • Cp, Blf, Fh, Fr, FsMostly on *Salix*, very seldom on *Betula*, *Populus*, *Sorbus*. Widely spread and common.

P: *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **KK:** *Stepanova* (1971). **Cl:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); Prigorod area, Visim Nat. Res., Galashki, on *Salix caprea*, 18.IX.1994 *Kotiranta* 11787; Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on dead, erect willow, 26.VIII.2002 *Kotiranta* 19996; *ibid.*, on dead corticated willow, also *Bjerkandera adusta*, *Trametes pubescens*, *Funalia trogii*, *Irpex lacteus*, *Antrodiella pallescens*, *Botryobasidium pruinaum*, *Cytidia salicina*, 26.VIII.2002 *Kotiranta* 19801; *Kotiranta et al.* (2007). **Bp:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Stepanova & Mukhin* (1979); Ekaterinburg, Botanical Garden RAS, on

Populus alba, 6.X.2008 *Almanaite* (SVER(F) 56349); *ibid.*, on *Juglans manshurica* (cult.), 30.X.2008 *Shiryayev* (SVER(F) 56484); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on dead willow, 13.VIII.1993 *Kotiranta 11030*; *Stavishenko* (2000, 2006); *Kotiranta et al.* (2007). **PI**: Stepanova (1971); Mukhin (1993); *Kotiranta et al.* (2007). **NI**: Stepanova (1971); Mukhin (1993). **Nm**: Stepanova (1971). **ST**: Stepanova (1971). **PT**: Stepanova (1971). **Kh**: Stepanova (1971); *Stavishenko* (2003). **Is**: Stepanova (1971). **OU**: Stepanova (1971).

Daedaleopsis septentrionalis (P. Karst.) Niemelä

LC • HB, SB, MB, NB, SA • Fhm

Mostly on *Betula*, very seldom on *Alnus*.

CI: Mukhin & Ushakova (2001); *Stavishenko* (2006); *Kotiranta et al.* (2007).

Bp: *Stavishenko* (2000); *Kotiranta et al.* (2007). **PI**: Mukhin (1993). **NI**: Mukhin (1993). **Kh**: *Stavishenko* (2003).

Daedaleopsis tricolor (Bull.) Bondartsev & Singer

LC • FS, HB, SB, MB, NB • Cshi, Fhd, Fhm, Frd

On *Alnus*, *Betula*, *Salix*. Widely spread and common.

CI: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin & Ushakova (2001); Prigorod area, Visim Nat. Res., Galashki, on *Betula*, 17.IX.1994 *Kotiranta 11802*; *Kotiranta et al.* (2007). **Bp**: Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on fallen birch, 13.VIII.1993 *Kotiranta 11026*; *ibid.*, *Pinus*-dominated, relatively poor, fairly old forest, on corticated birch branch, together with *Sistotrema brinkmannii*, *Antrodiella pallescens*, *Fomes fomentarius*, 27.VIII.2002 *Kotiranta 19859*; *ibid.*, on strongly human influenced grass-herb forest, on corticated *Padus*, 28.VIII.2002 *Kotiranta 19903*; Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on corticated birch, 27.VIII.2002 *Kotiranta 19882*; *Stavishenko* (2000, 2006); *Kotiranta et al.* (2007). **PI**: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI**: Stepanova (1971). **Kh**: *Stavishenko* (2003). **Is**: Stepanova (1971). **OU**: Stepanova (1971).

Datronia mollis (Sommerf.) Donk

LC • FS, HB, SB, MB, NB • Fhd, Fhm

On *Alnus*, *Betula*, *Padus*, *Populus*, *Salix*, *Sorbus*. Widely spread.

P: Krasnoufimsk area, Chernaja Rechka, mesic deciduous old-growth forest, on dead erect *Sorbus*, 14.VIII.2006 *Shiryayev* (SVER(F) 54415). **KK**: Stepanova (1971). **CI**: Solovjev (1946), Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on corticated aspen, together with *Peniophora cinerea*, *Crustomyces subabruptus*, 19.VIII.2002 *Kotiranta 19662*; *ibid.*, on birch branch, 19.VIII.2002

Kotiranta 19668; Stavishenko (2006); Kotiranta et al. (2007). **Bp**: Demidova (1963); Stepanova & Mukhin (1979); Stavishenko (2000); Kotiranta et al. (2007). **PI**: Demidova (1963); Stepanova-Kartavenko (1967); Mukhin (1993); Mukhin et al. (2003). **NI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks**: Stepanova (1971). **Nm**: Krasnouralsk, Dachny, on dead birch, 13.VIII.1995 *Bryzgalov* (SVER(F) 50007). **ST**: Verkhoturys, Vostochny, on *Salix caprea*, 19.VIII.1964 coll. *Storozheva*, det. *Shiryayev* (SVER(F) 47980). **PT**: Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen trunk of aspen, 20.VIII.1947 *Stepanova* (SVER(F) 56814); Stavishenko (2003). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Ivdel area, Ous, managed *Pinus sibirica*-dominated mesic heath forest, on willow, 7.VIII.2007 *Shiryayev* (SVER(F) 57210).

Datronia scutellata (Schwein.) Domanski

DD • MB, NB • Fhm

On *Alnus fruticosa*.

Kh: Stepanova-Kartavenko (1967); Stepanova (1971). **Is**: Ivdel area, Polunochnoye, managed mesic forest, on erect branches of *Alnus fruticosa*, 19.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 52400).

Datronia stereoides (Fr.) Ryvar den

DD • HB, SB, MB • Cp, Fh

On *Alnus*, *Betula*, *Malus*, *Populus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **CI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin & Ushakova (2001); Kotiranta et al. (2007).

Bp: Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Kotiranta et al. (2007). **PI**: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003).

NI: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993).

Dendrothele acerina (Pers.) P.A. Lemke

Syn. *Aleurodiscus acerinus* (Pers.) Höhn. & Litsch.

LC • HB, SB • Cp, Frd

On *Acer*.

P: Stepanova (1971). **Bp**: Ekaterinburg, Botanical Garden RAS, on bark of living *Acer tataricum* (cult.), 30.VIII.2004 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 55421).

****Dendrothele alliacea*** (Quel.) Lemke

NE • HB • Frd

On *Acer* & *Quercus*.

P: Krasnoufimsk area, Ust-Bugalish, luxuriant forest with *Tilia*, *Quercus*, *Acer*, *Sorbus*, *Rhamnus*, *Corylus*, *Euonymus verrucosa*, on fallen branch of oak and maple, 21.VIII.1996 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57012).

***Dendrothele commixta** (Höhn. & Litsch.) J. Erikss. & Ryvarden

LC • **SB** • Cp

On *Salix fragilis* «Bullata» in parks.

Bp: Ekaterinburg, Botanical Garden RAS, on dead twigs and bark of cultivated *Salix fragilis* «Bullata», 10.X.2009 *Kotiranta* and 11.X.2009 *Kotiranta* & *Shiryayev* (SVER(F) 57441).

Dentipellis fragilis (Pers.: Fr.) Donk

NT C2a(i) • HB, SB, MB • Frd, Frdv

On deciduous trees.

P: Krasnoufimsk area, Chernaya Rechka, old-growth *Abies*-dominated herb-rich mesic forest, on fallen *Populus*, 15.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 52663); Achit area, Korzunovka, old-growth *Abies*-dominated mesic herb-rich forest, on fallen birch, 21.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 53404). **Cl:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Shiryayev* & *Stavishenko* (2008). **PI:** *Shiryayev* (2007c).

Dichomitus albidofuscus (Domański) Domański

DD • SB • Fhmv

On *Picea*.

Cl: *Shiryayev* & *Stavishenko* (2008).

Dichomitus campestris (Quél.) Domanski & Orlicz

NT A3c; B2ab(iii) • HB • Frd, Frm

On *Corylus* & *Ulmus*.

P: Solovjev (1946); *Stepanova* (1971); Krasnoufimsk area, Sargaja, old-growth *Abies*-dominated herb-rich forest with *Acer*, *Corylus*, *Tilia*, *Ulmus*, on erect dead branch of hazel, 21.IX.2001 coll. *Shiryayev*, det. *Ushakova* (SVER(F) 54458).

Dichomitus squalens (P. Karst.) D.A. Reid

LC • FS, HB, SB, MB, NB • Cshi, Fh, Fhd, Fr

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

P: *Stepanova* (1971). **KK:** *Stepanova* (1971). **Cl:** *Stepanova* (1971); *Kotiranta* et al. (2007). **Bp:** *Demidova* (1963), *Stepanova* (1971); *Stepanova* & *Mukhin* (1979); *Sisert* area, Biological station USU, on strongly human influenced grass-herb

forest, on pine stump, 27.VIII.2002 *Kotiranta 19864*; Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI**: Demidova (1963); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI**: Stepanova (1971); Mukhin (1993). **Ks**: Stepanova (1971). **Nm**: Stepanova (1971). **ST**: Demidova (1963); Stepanova (1971). **PT**: Stepanova (1971). **Kh**: Stavishenko (2003). **Is**: Stepanova (1971). **OU**: Stepanova (1971).

Dichostereum boreale (Pouzar) Ginns & M.N.L. Lefebvre

LC • SB, MB • Fhm

On *Abies* & *Picea*.

CI: Stavishenko (2006). **Kh**: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta 20938*.

Dichostereum granulatum (Pers.) Boidin & Lanq.

Syn. *Asterostromella granulosa* (Pers.) Bourdot & Galzin

LC • HB, SB, MB • Fhm

On coniferous trees.

P: Stepanova (1971). **Bp**: Demidova (1963). **PI**: Mukhin (1993). **Kh**: Stepanova (1971); Karpinsk area, eastern slope of Kazansky Kamen mnt. range, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead spruce, 20.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 49238).

Diplomitoporus crustulinus (Bres.) Domanski

NT C2a(i); D1 • HB, MB • Fhm

On *Picea*.

PI: Mukhin (1993); Mukhin et al. (2003). **Kh**: Stavishenko (2003).

Diplomitoporus flavescens (Bres.) Domański

LC • FS, HB, SB, MB, NB • Cp, Fhd

On *Pinus*. Widely spread and common.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on erect dead pine, 19.IX.1996 *Shiryayev* (SVER(F) 49259). **KK**: Stepanova (1971). **CI**: Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006). **Bp**: Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on fallen pine, 13.VIII.1993 *Kotiranta 10993*; *ibid*, managed pine forest, on young dead erect pines, 20.VI.2008 *Shiryayev* (SVER(F) 50396); Kotiranta et al. (2007). **PI**: Stepanova-Kartavenko (1967); Mukhin (1993); Mukhin et al. (2003). **NI**: Stepanova-Kartavenko (1967); Mukhin (1993). **Ks**: Stepanova (1971). **Nm**: Stepanova (1971).

Kh: Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova (1971). **Ou:** Ivdel area, Ous, old-growth *Pinus*-dominated dry heath forest, on dead erect pine, 7.VIII.2007 *Shiryayev* (SVER(F) 53926).

Ditiola peziziformis (Lév.) D.A. Reid

Syn. *Femsjonina peziziformis* (Lév.) P. Karst.

LC • HB, SB • Fhm

On *Alnus*, *Populus*, *Tilia*.

Cl: Stepanova (1971). **Bp:** Nizhneserginsk area, Bazhukovo, on *Tilia*, 21.X.2008 *Almanaite* (SVER(F) 42860). **PI:** Mukhin (1993); Mukhin et al. (2003).

****Ditiola radicata*** (Alb. & Schwein. : Fr.) Fr.

LC • HB, SB, MB • Fhd

On *Pinus*. Widely spread, but not common.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», 3.VIII.1972 coll. *Sirko*, det. *Raitviir* (SVER(F) 41029). **Bp:** Sisert area, Biological Station USU, 2.VII.1995 coll. *Bryzgalov*, det. *Almanaite* (SVER(F) 42314). **PI:** Tugulym area, «Prip'yshminsk Bory» Nat. Park, 20.VIII.1969 *Sirko* (SVER(F) 40098). **Ks:** Kushva area, Kedrovka mnt., 29.VIII.1973 *Sirko* (SVER(F) 41144). **PT:** Gari area, Zykova, 20.VIII.1971 *Stepanova* (SVER(F) 41098). **Is:** Severouralsk area, Bajanovka, 6.VIII.2005 coll. *Mukhin*, det. *Almanaite* (SVER(F) 42839).

E

Eichleriella deglubens (Berk. & Broome) D.A. Reid

Syn. *Eichleriella spinulosa* (Berk. & M.A. Curtis) Burt ss. auct.

LC • HB, SB, MB • Frd

On *Alnus*, *Betula*, *Populus*, *Tilia*.

Cl: Nizhneserginsk area, Bazhukovo, on *Tilia*, 21.X.2008 *Almanaite* (SVER(F) 42881). **Bp:** Stepanova (1971). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Karpinsk area, Konzhakov Kamen mnt. range, on *Betula*, 14.VIII.1973 *Sirko* (SVER(F) 40928). **Is:** Ivdel area, Chernaja Parma, on *Alnus*, 22.VIII.1970 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40824).

****Eichleriella leucophaea*** Bres.

Syn. *Exidiopsis leucophaea* (Bres.) K. Wells.

DD • SB • Fhmv

On *Populus*.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated

old-growth forest with *Populus*, on decorticated aspen branch, 20.VIII.2002 *Kotiranta* 19717.

Ecronartium muscicola (Pers. : Fr.) Fitzp.

Syn. *Typhula muscicola* (Pers.) Fr.

LC • HB, SB, MB • Fhm, Frm

On mosses. Widely spread.

P: Krasnoufimsk area, Chernaja Rechka, old-growth mesic *Abies*-dominated forest, 14.VIII.2006 *Shiryayev* (SVER(F) 42784). **Cl:** Stepanova (1971, 1972); Shalya area, Shigaev, old-growth deciduous forest, brook-side slope, 29.VIII.1997 *Shiryayev* (SVER(F) 42293 – part in H.K.). **Bp:** Sisert area, Biological station USU, old-growth *Pinus*-dominated mesic forest, 3.IX.2002 *Shiryayev* (SVER(F) 42347). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Ks:** Kushva area, Kedrovka mnt., 7.IX.2004 *Shiryayev* (SVER(F) 42463). **Is:** Severouralsk area, Bajanovka, 6.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 42552). **OU:** Ivdel area, Ous, *Picea–Pinus sibirica*-dominated mesic old-growth forest, 7.VIII.2007 *Shiryayev* (SVER(F) 42865).

Erastia salmonicolor (Berk. & M.A. Curtis) Niemelä & Kinnunen

Syn. *Hapalopilus salmonicolor* (Berk. & M.A. Curtis) Pouzar *pro parte*

DD • HB, SB, MB • Fhd, Fhm

On *Pinus*.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **PI:** Stepanova (1971). **Kh:** Stavishenko (2003). **Is:** Stepanova (1971).

Erythricium hypnophilum (P. Karst.) J. Erikss. & Hjortstam

Syn. *Corticium hypnophilum* P. Karst.

LC • SB • Fhm, Frm

On mosses.

Cl: Stepanova (1971). **Bp:** Sisert area, Verkh Sisert, surrounds of «Tal'k karjer», on *Hylocomium*, 29.IX.2005 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 55432).

Erythricium laetum (P. Karst.) J. Erikss. & Hjortstam

Syn. *Corticium laetum* (P. Karst.) Bres.

LC • FS, HB, SB, MB • Fhm, Frd

On conifers and deciduous trees and litter.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Stepanova (1971); Nevjansk area, S coast of Tavatuy Lake, old-growth *Picea*-dominated mesic forest with *Tilia*, *Sorbus*, *Alnus*, *Padus*, *Frangula*, on decomposed *Sorbus* and litter, 9.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56317). **PI:** Mukhin et al. (2003). **Kh:** Stepanova-Kartavenko (1967). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Exidia cartilaginea Lundell & Neuhoff

LC • FS, HB, SB, MB, NB, SA • Cp, Fh, Fr

On deciduous trees. Widely spread and common.

P: Achit area, Korzunovka, on *Tilia*, 4.IX.1972 *Sirko* (SVER(F) 40909). **Cl:** Pervouralsk, Bilimbay, on *Betula*, 7.VIII.1970 *Stepanova* (SVER(F) 40813). **Bp:** Ekaterinburg, Botanical Garden RAS, on *Betula platyphylla* (cult.), 29.X.2008 *Almanaite* (SVER(F) 42847). **PI:** Mukhin (1993). **Ks:** Kachkanar, on *Padus*, 26.VIII.1966 *Sirko* (SVER(F) 40659). **PT:** Gari area, Zykova, on *Betula*, 27.VIII.1969 coll. *Kazantseva*, det. *Raitviir* (SVER(F) 40745). **Kh:** Severouralsk area, Yelovy Kamen mnt. range, on *Alnus*, 16.VIII.1946 coll. *Solovjev*, det. *Almanaite* (SVER(F) 40030). **Is:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on *Alnus*, 20.VIII.1972 *Sirko* (SVER(F) 40843). **OU:** Ivdel area, Ous, on *Betula*, 10.VIII.2006 *Shiryayev* (SVER(F) 42947).

Exidia glandulosa (Bull. : Fr.) Fr.

LC • FS, HB, SB, MB, NB • Fhm, Frd

On deciduous trees, once on *Abies*. Widely spread and common.

P: Krasnoufimsk area, Chernaja Rechka, on *Tilia*, 14.VIII.2006 *Shiryayev* (SVER(F) 42823). **Bp:** Nevjansk area, Tavatuy lake, on *Sorbus*, 4.IX.1974 *Sirko* (SVER(F) 40828). **PI:** Muknin (1993); Mukhin et al. (2003). **NI:** Muknin (1993). **Ks:** Kachkanar, Kachkanar mnt., on *Betula*, 21.VIII.1976 *Stepanova* (SVER(F) 40915). **PT:** Gari area, Zykova, on *Alnus*, 17.VIII.1967 coll. *Sirko*, det. *Raitviir* (SVER(F) 40554). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on *Abies*, 15.VIII.1965 *Stepanova* (SVER(F) 40398). **Is:** Ivdel area, Polunochnoje, on *Alnus*, 18.VIII.2005 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42902). **OU:** Ivdel area, Pelym, on *Populus*, 25.VIII.1980 *Stepanova* (SVER(F) 41017).

****Exidia nucleata*** (Schwein.) Burt

Syn. *Myxarium nucleatum* (Schwein.) Wallr.

LC • HB, SB • Fhm, Frd

On *Populus* and other deciduous trees.

P: Krasnoufimsk area, Sargaja, on *Populus alba*, 28.VIII.1970 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 40509). **Cl:** Pervouralsk, Bilimbay, on *Populus nigra*, 3.VIII.1980 *Stepanova* (SVER(F) 40838). **Bp:** Polevskoy area, Azov mnt., on aspen, 25.X.2008 *Almanaite* (SVER(F) 42891). **PI:** Tugulym area, «Pripyshminsk Bory», on aspen, 18.VIII.1968 coll. *Sirko*, det. *Raitviir* (SVER(F) 40544).

Exidia pithya (Alb. & Schwein. : Fr.) Fr.

LC • HB, SB, MB, NB • Fhm, Frd

On *Abies* & *Picea*. Widely spread and common.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, on *Abies*, 27.VIII.2008 *Almanaite* (SVER(F) 42798). **Bp:** Nevjansk area, Tavatuy lake, on *Picea*,

5.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42532). **PI**: Mukhin (1993). **Ks**: Kushva area, Kedrovka mnt., on *Picea*, 21.VIII.1961 coll. *Storozheva*, det. *Stepanova* (SVER(F) 40651). **Kh**: Karpinsk area, Konzhakov Kamen mnt. range, on *Picea*, 13.VIII.1973 *Sirko* (SVER(F) 40946). **OU**: Ivdel area, Ous, on *Picea*, 10.VIII.2006 *Shiryayev* (SVER(F) 42830).

****Exidia recisa*** (Ditmar: Fr.) Fr.

LC • HB, SB, MB • Fhm, Frd

Mostly on *Salix*, less common on other deciduous trees. Widely spread and common.

Cl: Shalya area, Shigaev, 4.VIII.2007 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42868). **Bp**: Sisert area, Biological station USU, 30.VI.2009 *Shiryayev* (SVER(F) 42934). **PI**: Tugulym area, «Pripyshminsk Bory» Nat. Park, 21.VIII.1968 coll. *Sirko*, det. *Raitviir* (SVER(F) 40607). **NI**: Irbit area, Yelan', 5.VIII.1968 *Sirko* (SVER(F) 40793). **ST**: Gari area, Zykova, on *Betula*, 21.VIII.1966 coll. *Sirko*, det. *Govorova* (SVER(F) 40475). **Kh**: Karpinsk area, Kosva Kamen mnt., on *Alnus*, 8.VIII.1969 coll. *Kazantseva*, det. *Stepanova* (SVER(F) 40519). **Is**: Severouralsk area, Bajanovka, 6.VIII.2005 *Kotiranta & Mukhin* (SVER(F) 42768).

Exidia repanda Fr.

LC • FS, HB, SB, MB, NB • Fhm, Frd

Mostly on *Betula*. Widely spread and common.

P: Achit area, Korzunovka, 28.VIII.1960 *Stepanova* (SVER(F) 40494). **Cl**: Nizhneserginsk area, Bazhukovo, on *Alnus*, 27.X.2008 *Almanaite* (SVER(F) 42906). **Bp**: Sisert area, Biological Station USU, 30.VI.2009 *Mukhin* (SVER(F) 42993). **PI**: Mukhin (1993). **PT**: Gari area, Zykova, 22.VIII.1966 *Sirko* (SVER(F) 42166). **Kh**: Ivdel area, Molebny Kamen mnt. range, 13.VIII.2005 *Shiryayev* (SVER(F) 42853). **OU**: Ivdel area, Pelym, on *Alnus*, 25.VIII.1980 coll. *Stepanova*, det. *Almanaite* (SVER(F) 41761).

Exidia saccharina (Alb. & Schwein. : Fr.) Fr.

LC • FS, HB, SB, MB, NB • Fhd, Fhm

On *Larix*, *Picea*, *Pinus*. Widely spread.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on *Pinus*, 21.VIII.1972 *Stepanova* (SVER(F) 40931). **Cl**: Shalya area, Shigaev, on *Picea*, 4.VIII.2006 *Shiryayev* (SVER(F) 42791). **Bp**: *Stepanova* (1971). **PI**: Mukhin (1993); Mukhin et al. (2003). **NI**: Mukhin (1993). **Ks**: Kachkanar, on *Pinus*, 13.VIII.1995 *Bryzgalov* (SVER(F) 41516). **Nm**: Krasnouralsk, Dachny, on *Picea*, 15.VIII.1995 *Bryzgalov* (SVER(F) 41532). **Kh**: Severouralsk area, Yelovy Uval mnt. range, on *Larix*, 17.VIII.1946 coll. *Solovjev*, det. *Almanaite* (SVER(F) 40077). **Is**: Ivdel area, Vizhaj, on *Pinus*, 18.VIII.2005 *Kotiranta* (SVER(F) 412761). **OU**: Ivdel area, Ous, on *Pinus*, 7.VIII.2007 *Shiryayev* (SVER(F) 42883).

****Exidia thuretiana*** (Lév.) Fr.

LC • HB, SB • Frd

On *Tilia* & *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 4.IX.2000 coll. *Shiryayev*, det. *Govorova* (SVER(F) 42394). **Cl:** Nizhneserginsk area, Bazhukovo, on *Tilia*, 26.X.2008 *Almanaite* (SVER(F) 41229). **Bp:** Nevjansk area, Tavatuy lake, on *Tilia*, 24.VIII.1973 *Sirko* (SVER(F) 41229).

****Exidia truncata*** Fr.

NT B2ab(ii,iii); C2b • HB • Frd

On *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», 24.VIII.1967 coll. *Sirko*, det. *Raitviir* (SVER(F) 41830); *ibid.*, 3.IX.2000 *Shiryayev* (SVER(F) 42924).

Exidiopsis calcea (Pers. : Fr.) K. WellsSyn. *Corticium calceum* (Pers.) Fr., *Sebacina calcea* (Pers.) Bres.

LC • HB, SB, MB, NB • Fhm

On *Abies*, *Picea*. Widely spread and common.

P: Krasnoufimsk area, Sarana, on *Abies*, 30.VIII.1999 coll. *Golumbievskaya*, det. *Almanaite* (SVER(F) 41786). **Cl:** Shalya area, Shigaev, moist mixed old-growth forest, on fallen branches of *Picea*, 9.VIII.2007 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 42877). **Bp:** Verkh Pyshma area, «Chertovo Gorodische», on *Picea*, 2.IX.2002 coll. *Ushakova*, det. *Almanaite* (SVER(F) 42620). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Ks:** Kachkanar surrounds, on *Picea*, 13.VIII.1995 coll. *Bryzgalov*, det. *Govorova* (SVER(F) 41774). **ST:** Verkhhoturiye, on *Picea*, VIII.1963 coll. *Storozheva*, det. *Raitviir* (SVER(F) 40762). **Kh:** Stepanova (1971). **Is:** Wells & Raitviir (1977).

****Exidiopsis effusa*** (Bref. ex Sacc.) A. Möller

LC • FS, HB, SB, MB • Fhm, Frd

On deciduous trees.

P: Krasnoufimsk area, Sargaja, on *Corylus*, 28.VIII.1970 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 40730). **Cl:** Shalya area, Shigaev, on *Alnus*, 3.IX.2000 coll. *Shiryayev*, det. *Govorova* (SVER(F) 42301). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, on *Alnus*, 5.VI.2007 coll. *Mukhin*, det. *Almanaite* (SVER(F) 42508). **Ks:** Kushva area, Kedrovka mnt., on aspen, 7.IX.1999 coll. *Shiryayev*, det. *Govorova* (SVER(F) 41739). **Is:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on *Salix*, 16.VIII.1972 *Sirko* (SVER(F) 41007).

Exidiopsis griseobrunnea K.Wells & Raitv.

LC • NB, SA, AL • Fhm

On *Alnus fruticosa*.

Kh: Ivdel area, Molebny Kamen mnt. range, subalpine belt, 13.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 42670). **Is:** Stepanova (1971); Ivdel area, Vizhaj, 18.VIII.2005 *Kotiranta & Shiryayev* (SVER(F) 42696).

****Exobasidium aequale* Sacc.**

LC • SB, MB, NB • Fhm

On *Vaccinium myrtillus*.

NI: Tavda area, Oshmarka, 20.VIII.1966 *Sirko* (SVER(F) 40272). **ST:** Verkhoturiye, Vostochny, 13.VIII.1967 *Sirko* (SVER(F) 40440). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 *Stepanova* (SVER(F) 41303). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 *Sirko* (SVER(F) 42816).

****Exobasidium angustisporum* Linder**

LC • NB, SA • Ah, Fa

On *Arctostaphylos alpina*.

Kh: Severouralsk area, Denezhkin Kamen mnt., VIII.1946 *Stepanova* (SVER(F) 40157).

****Exobasidium arescens* Nannf.**

LC • FS, HB, SB • Fhm

On *Vaccinium myrtillus*.

P: Arti area, Korzunovka, IX.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 40226). **Cl:** Nizhneserginsk area, Mikhailovsk, VIII.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 40987). **Bp:** Nevjansk area, Tavatuy Lake, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40466). **Nm:** Prigorod area, Yelovaja mnt., VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40086).

****Exobasidium cassandrae* Peck**

LC • HB, SB, MB • MI

On *Chamaedaphne calyculata*. Widely spread and common.

Cl: Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 *Sirko* (SVER(F) 40190). **Bp:** Nevjansk area, Tavatuy Lake, VIII.1965 *Sirko* (SVER(F) 40876). **PI:** Talitsa area, IX.1967 *Sirko* (SVER(F) 41180). **NI:** Tavda area, Oshmarka, 20.VIII.1966 *Sirko* (SVER(F) 40583). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 *Sirko* (SVER(F) 40104). **Nm:** Krasnouralsk, IX.1968 *Sirko* (SVER(F) 41575). **PT:** Gari area, Zykova, VIII.1965 *Sirko* (SVER(F) 42122). **ST:** Verkhoturiye, Vostochny, 13.VIII.1967 *Sirko* (SVER(F) 40708). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 *Stepanova* (SVER(F) 40315). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 *Sirko* (SVER(F) 42457). **OU:** Ivdel area, Ous, 26.VIII.1965 *Sirko* (SVER(F) 40007).

****Exobasidium expansum*** Nannf.**LC** • SB, MB, NB, SA • MIOn *Vaccinium uliginosum*.

Cl: Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 40727). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41511). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 42104). **PT:** Gari area, Zykova, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40606). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 coll. *Stepanova*, det. *Almanaite* (SVER(F) 41818). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41138). **OU:** Ivdel area, Ous, 26.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40165).

****Exobasidium juelianum*** Nannf.**LC** • FS, HB, SB, MB, NB, SA, AL • Ah, Fa, Fh, MIOn *Vaccinium vitis-idaea*. Widely spread and common.

P: Arti area, Korzunovka, IX.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 40368). **Cl:** Shalya area, Sylva, IX.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 41002). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41196). **PI:** Talitsa area, IX.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 40681). **NI:** Tavda area, Oshmarka, 20.VIII.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 41525). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 42141). **Nm:** Krasnouralsk, IX.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 42242). **PT:** Gari area, Zykova, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40023). **ST:** Verkhoturkiye, Vostochny, 13.VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 41809). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 coll. *Stepanova*, det. *Almanaite* (SVER(F) 40181). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40842). **OU:** Ivdel area, Ous, 26.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40243).

****Exobasidium karstenii*** Sacc. & Trotter**LC** • FS, HB, SB, MB, NB, SA, AL • Me, MIOn *Andromeda polifolia*. Widely spread and common.

P: Arti area, Korzunovka, IX.1966 *Sirko* (SVER(F) 41210). **Cl:** Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 *Sirko* (SVER(F) 40866). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 *Sirko* (SVER(F) 42263). **PI:** Talitsa area, IX.1967 *Sirko* (SVER(F) 42423). **NI:** Tavda area, Oshmarka, 20.VIII.1966 *Sirko* (SVER(F) 40744). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 *Sirko* (SVER(F) 42640). **Nm:** Krasnouralsk, IX.1968 *Sirko* (SVER(F) 42561). **PT:** Gari area, Zykova, VIII.1965 *Sirko* (SVER(F) 42175). **ST:** Verkhoturkiye, VIII.1978 *Sirko* (SVER(F) 41936). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 *Stepanova* (SVER(F) 40562). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 *Sirko* (SVER(F) 41317). **OU:** Ivdel area, Ous, 26.VIII.1965 *Sirko* (SVER(F) 41037).

****Exobasidium ledi*** P. Karst.

LC • FS, HB, SB, MB, NB, SA, AL • MI

On *Ledum palustre*. Widely spread and common.

P: Arti area, Korzunovka, IX.1966 *Sirko* (SVER(F) 41049). **Cl:** Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 *Sirko* (SVER(F) 40355). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 *Sirko* (SVER(F) 41358). **PI:** Talitsa area, IX.1967 *Sirko* (SVER(F) 41594). **NI:** Tavda area, Oshmarka, 20.VIII.1966 *Sirko* (SVER(F) 40497). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 *Sirko* (SVER(F) 41257). **Nm:** Krasnouralsk, IX.1968 *Sirko* (SVER(F) 41929). **PT:** Gari area, Zykova, VIII.1965 *Sirko* (SVER(F) 41122). **ST:** Verkhoturiiye, Vostochny, 13.VIII.1967 *Sirko* (SVER(F) 40629). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 *Stepanova* (SVER(F) 40737). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 *Sirko* (SVER(F) 40288). **OU:** Ivdel area, Ous, 26.VIII.1965 *Sirko* (SVER(F) 40853).

****Exobasidium myrtilli*** Siegm.

LC • FS, HB, SB, MB, NB, SA, AL • Fh, Fr

On *Vaccinium myrtilus*. Widely spread and common.

P: Arti area, Korzunovka, IX.1966 *Sirko* (SVER(F) 40543). **Cl:** Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 *Sirko* (SVER(F) 41096). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 *Sirko* (SVER(F) 40130). **PI:** Talitsa area, IX.1967 *Sirko* (SVER(F) 40809). **NI:** Tavda area, Oshmarka, 20.VIII.1966 *Sirko* (SVER(F) 41436). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 *Sirko* (SVER(F) 40394). **Nm:** Krasnouralsk, IX.1968 *Sirko* (SVER(F) 41190). **PT:** Gari area, Zykova, VIII.1965 *Sirko* (SVER(F) 41294). **ST:** Verkhoturiiye, Vostochny, 13.VIII.1967 *Sirko* (SVER(F) 41691). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 *Stepanova* (SVER(F) 40041). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 *Sirko* (SVER(F) 40490). **OU:** Ivdel area, Ous, 26.VIII.1965 *Sirko* (SVER(F) 40251).

****Exobasidium oxycocci*** Rostr. ex Shear

LC • SB, MB, NB, SA • MI

On *Oxycoccus pallustris* & *O. microcarpum*.

Bp: Nevjansk area, Tavatuy Lake, 5.VIII.1965 *Sirko* (SVER(F) 41418). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 *Sirko* (SVER(F) 42472). **PT:** Gari area, Zykova, VIII.1965 *Sirko* (SVER(F) 41283). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 *Stepanova* (SVER(F) 41560). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 *Sirko* (SVER(F) 42248). **OU:** Ivdel area, Ous, 26.VIII.1965 *Sirko* (SVER(F) 41680).

****Exobasidium pachysporum*** Nannf.

LC • FS, HB, SB, MB, NB, SA • MI

On *Vaccinium uliginosum*. Widely spread and common.

P: Arti area, Korzunovka, IX.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 40260). **Cl:** Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 40527). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41280). **PI:** Talitsa area, IX.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 41547). **NI:** Tavda area, Oshmarka, 20.VIII.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 40427). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 40765). **Nm:** Krasnouralsk, IX.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 40342). **PT:** Gari area, Zykova, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40967). **ST:** Verkhoturiye, Vostochny, 13.VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 41980). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 coll. *Stepanova*, det. *Almanaite* (SVER(F) 40214). **Is:** Ivdel area, Chernaja Parma Mnt., VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41131). **OU:** Ivdel area, Ous, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40147).

***Exobasidium rostrupii** Nannf.

LC • HB, SB, MB • MI

On *Oxycoccus palustris* & *O. microcarpum*.

Ks: Lobva area, Kushpaisky Uval, VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 41082). **PT:** Gari area, Zykova, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 42090). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 coll. *Stepanova*, det. *Almanaite* (SVER(F) 41841). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41214). **OU:** Ivdel area, Ous, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40902).

***Exobasidium savilei** Nannf.

LC • SB, MB • MI

On *Chamaedaphne calyculata*.

Cl: Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 40202). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40458). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 41346). **PT:** Gari area, Zykova, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40751). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 coll. *Stepanova*, det. *Almanaite* (SVER(F) 40306). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40667). **OU:** Ivdel area, Ous, 26.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40385).

***Exobasidium splendidum** Nannf.

LC • FS, HB, SB, MB, NB, SA, AL • Am, Fa, Fh, MI

On *Vaccinium vitis-idaea*. Widely spread and common.

P: Arti area, Korzunovka, IX.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 41014). **Cl:** Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 41385). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41671). **PI:** Talitsa area, IX.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 41268). **NI:** Tavda area, Oshmarka, 20.VIII.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 40890). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 41465). **Nm:** Lesnoj, Tazhny, IX.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41064). **PT:** Gari area, Zykova, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 42156). **ST:** Verkhoturiye, Vostochny, 13.VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 41539). **Kh:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 coll. *Stepanova*, det. *Almanaite* (SVER(F) 41790). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41610). **OU:** Ivdel area, Ous, 26.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 40823).

****Exobasidium sundstroemii* Nannf.**

LC • HB, SB, MB • Me, MI

On *Andromeda polifolia*.

Cl: Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 41226). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 42358). **PI:** Talitsa area, IX.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 42447). **NI:** Tavda area, Oshmarka, 20.VIII.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 41732). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 42187). **Nm:** Krasnouralsk, IX.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 42548). **PT:** Gari area, Zykova, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41652). **ST:** Severouralsk area, E slope of Denezhkin Kamen mnt., 20.VIII.1946 coll. *Stepanova*, det. *Almanaite* (SVER(F) 41077). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 42001). **OU:** Ivdel area, Ous, 26.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41863).

****Exobasidium sydowianum* Nannf.**

LC • HB, SB, MB, NB, SA, AL • Fad, Fhd

On *Arctostaphylos uva-ursi*. Widely spread and common.

Cl: Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 coll. *Sirko*, det. *Almanaite* (SVER(F) 41604). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41237). **PI:** Talitsa area, IX.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 41829). **NI:** Tavda area, Oshmarka, 20.VIII.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 41750). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 coll. *Sirko*, det. *Almanaite* (SVER(F) 41490). **Nm:** Lesnoj, Tazhny, IX.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 42067). **PT:** Gari area, Zykova, VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41903). **ST:** Verkhoturiye, Vostochny, 13.VIII.1967 coll. *Sirko*,

det. *Almanaite* (SVER(F) 42209). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41108). **Ou:** Ivdel area, Ous, 26.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 41336).

****Exobasidium uvae-ursi*** (Maire) Juel

LC • FS, HB, SB • Fhd

On *Arctostaphylos uva-ursi*.

Cl: Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 *Sirko* (SVER(F) 42308). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 *Sirko* (SVER(F) 42517). **PI:** Talitsa area, IX.1967 *Sirko* (SVER(F) 42256).

****Exobasidium vaccinii*** (Fuckel) Woronin

LC • FS, HB, SB, MB, NB, SA, AL • Fhd, Fhm

On *Vaccinium vitis-idaea*. Widely spread and common.

P: Arti area, Korzunovka, IX.1966 *Sirko* (SVER(F) 40955). **Cl:** Nizhneserginsk area, Mikhailovsk, 16.VIII.1968 *Sirko* (SVER(F) 42494). **Bp:** Nevjansk area, Tavatuy Lake, 5.VIII.1965 *Sirko* (SVER(F) 41248). **PI:** Talitsa area, IX.1967 *Sirko* (SVER(F) 42282). **NI:** Tavda area, Oshmarka, 20.VIII.1966 *Sirko* (SVER(F) 41428). **Ks:** Lobva area, Kushpaisky Uval, VIII.1967 *Sirko* (SVER(F) 41154). **Nm:** Lesnoj, Taezhny, IX.1965 *Sirko* (SVER(F) 42594). **PT:** Gari area, Zykova, VIII.1965 *Sirko* (SVER(F) 41776). **ST:** Verkhoturkiye, Vostochny, 13.VIII.1967 *Sirko* (SVER(F) 40920). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1965 *Sirko* (SVER(F) 42700). **Ou:** Ivdel area, Ous, 26.VIII.1965 *Sirko* (SVER(F) 41626).

****Exobasidium vaccinii-uliginosi*** Boud.

LC • MB, NB, SA • MI

On *Vaccinium uliginosum*.

PT: Gari area, Zykova, VIII.1965 *Sirko* (SVER(F) 40780). **ST:** Verkhoturkiye, Vostochny, 13.VIII.1967 *Sirko* (SVER(F) 42684). **Iv:** Ivdel area, Chernaja Parma mnt., VIII.1965 *Sirko* (SVER(F) 40856).

F

****Fibricium lapponicum*** J. Erikss.

DD • SB, MB • Fhd, Fhmv

On *Abies* & *Picea*.

Ks: Kushva area, W slope of Kedrovka mnt., old-growth *Abies*-dominated mesic forest, on fallen trunk of fir, 5.IX.2004 coll. *Shiryaev*, det. *Kotiranta* (SVER(F)

46350). **ST:** Verkhoturiye, Vostochny, old-growth *Pinus–Picea*-dominated mesic forest, on partly buried branch of spruce, 6.IX.1966 coll. *Sirko*, det. *Parmasto* (SVER(F) 50522).

Fibricium rude (P. Karst.) Julich

LC • HB, SB, MB • Fhd, Fhm, Frd

On *Picea* & *Pinus*.

Cl: Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, old-growth *Abies*-dominated nemoral herb-rich forest, on fallen branch of spruce, 23.VIII.1975 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 53044). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on pine twigs, 13.VIII.1993 *Kotiranta 11017*; *ibid.*, on small decorticated pine, also *Peniophorella praetermissa*, *Trichaptum fuscoviolaceum*, *Tomentella* sp., 25.VIII.2002 *Kotiranta 19779*; *ibid.*, *Pinus*-dominated, relatively poor, fairly old forest, on corticated pine, also *Ceraceomyces serpens*, 13.VIII.1993 *Kotiranta 11025*. **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** *Stepanova* (1971).

Fibroporia vaillantii (DC. : Fr.) *Parmasto*

Syn. *Antrodia vaillantii* (DC.) *Ryvarden*, *Coriolus vaporarius* (Pers.) *Bondartsev* & *Singer*

LC • HB, SB, MB • Cp, Fhd, Fhm

On coniferous trees.

P: *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Cl:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Bp:** *Demidova* (1963); *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Stepanova & Mukhin* (1979). **PI:** *Demidova* (1963); *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Kh:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Is:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971).

Fistulina hepatica *Schaeff.* : Fr.

EN C1+2a(i); D1 • HB • Frd

On *Quercus*.

P: *Solovjev* (1946); *Stepanova* (1971); *Krasnoufimsk* area, «Nizhneirginsk oak forest», managed *Pinus–Quercus*-dominated mesic forest, at base of an old oak, 3.IX.1996 *Shiryayev* (SVER(F) 50592).

Fomes fomentarius (L.) J.J. *Kickx*

LC • FS, HB, SB, MB, NB, SA • Cp, Cr, Cshi, Fa, Fh, Fr, Fs, MI, Md, Sif

Mostly on *Betula*, but also on *Alnus*, *Salix*, *Tilia*, *Populus*, *Sorbus*. Widely spread and common.

P: *Demidova* (1963); *Stepanova-Kartavenko* (1967). **KK:** *Stepanova-Kartavenko*

(1967); Stepanova (1971). **Cl:** Demidova (1963); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on dead erect birch, 19.VIII.2002 *Kotiranta 19693*; Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on living birch, 13.VIII.1993 *Kotiranta 10985*; Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Mukhin (1993). **Ks:** Naumov (1915). **Kh:** Demidova (1963); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of birch, 20.VIII.1947 *Stepanova (SVER(F) 49614)*; Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of birch, 11.VIII.2005 *Kotiranta 20874*. **Is:** Demidova (1963). **OU:** Stepanova (1971). **VP:** Stepanova (1971).

Fomitopsis cajanderi (P. Karst.) Kotl. & Pouzar

Syn. *Fomitopsis subrosea* (Weir) Bondartsev & Singer

LC • SB, MB, NB • Fhmv, Fr

On *Picea*. Locally common on northern- and mnt.-areas.

Cl: Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, on spruce, 18.IX.1994 *Kotiranta 11823*; Stavishenko (2000, 2006); Kotiranta et al. (2007); Prigorod area, Baronskoye, old-growth *Picea*-dominated mesic forest, on stump of spruce, 4.VIII.2009 *Stavishenko 717*. **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993); Red Book... (1996). **Ks:** Red Book... (1996). **Nm:** Demidova (1963); Red Book... (1996). **ST:** Demidova (1963); Red Book... (1996). **PT:** Red Book... (1996). **Kh:** Stepanova (1971); Red Book... (1996); Stavishenko (2003); Severouralsk area, Yelovaya Griva mnt. range, managed coniferous forest, on stump of *Picea*, 5.IX.2005 *Shiryayev (SVER(F) 51384)*; **Is:** Solovjev (1946); Stepanova (1971); Red Book... (1996). **OU:** Stepanova (1971); Red Book... (1996). **VP:** Red Book... (1996).

Fomitopsis epileucina (Pilát) Gilb. & Ryvarden

RE • SB • Fh, Fr

On *Alnus*, *Betula*, *Populus*. Not recorded since 1960.

Cl: Stepanova-Kartavenko (1967); Bondartseva (1998); Kotiranta et al. (2007); Shiryayev (2008d). **Bp:** Stepanova-Kartavenko (1967); Bondartseva (1998).

Fomitopsis pinicola (Sw.) P. Karst.

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Cr, Fh, Fhv, Fr, Ml, Md

On *Abies*, *Larix*, *Picea*, *Pinus*, *Alnus*, *Betula*. Widely spread and common.

P: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **KK:** Stepanova (1971). **Cl:** Demidova (1963); Stepanova (1971); Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on partly corticated spruce, also *Antrodia xantha*, *A. sinuosa*, *Fomitopsis rosea*, *Gloeophyllum abietinum*, *G. sepiarium*, 26.VIII.2002 *Kotiranta* 19834; Stavishenko (2000, 2006); Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Kotiranta et al. (2007). **PI:** Demidova (1963); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Demidova (1963); Mukhin (1993). **Ks:** Stepanova (1971). **Nm:** Demidova (1963); Stepanova (1971). **ST:** Demidova (1963). **PT:** Stepanova (1971). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of spruce, 20.VIII.1947 coll. Stepanova, det. Stavishenko (SVER(F) 49451); Stepanova (1971); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of Siberian pine, 12.VIII.2005 *Kotiranta* 20940. **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971). **VP:** Stepanova-Kartavenko (1967); Stepanova (1971).

Fomitopsis rosea (Alb. & Schwein.) P. Karst.

LC • HB, SB, MB, NB, SA • Cshi, Fhd, Fhm, Sif

On *Picea*, *Abies*, *Pinus*. Widely spread and common.

P: Stepanova (1971). **Cl:** Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on decorticated aspen, together with *Steccherinum ochraceum*, *Steccherinum fimbriatum*, *Botryobasidium laeve*, *Antrodia pulvinascens*, 19.VIII.2002 *Kotiranta* 19673; Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on decorticated spruce, also *Gloeophyllum sepiarium*, *Postia leucomallella*, 26.VIII.2002 *Kotiranta* 19818; *ibid.*, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on partly corticated spruce, also *Antrodia xantha*, *Fomitopsis pinicola*, *Antrodia sinuosa*, *Gloeophyllum abietinum*, *G. sepiarium*, 26.VIII.2002 *Kotiranta* 19835; *ibid.*, on large corticated pine, also *Pseudohydnum gelatinosum*, 26.VIII.2002 *Kotiranta* 19838; Prigorod area, Visim Nat. Res., Galashki, on *Picea*, 18.IX.1994 *Kotiranta* 11767; Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, partly decorticated pine, 13.VIII.1993 *Kotiranta* 10989; Stavishenko (2000); Kotiranta et al. (2007). **PI:** Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Stepanova (1971); Mukhin (1993). **Nm:** Stepanova (1971). **ST:** Stepanova (1971). **PT:** Stepanova (1971). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*

aucuparia, *Padus racemosa*, *Salix* spp., on dead spruce, 20.VIII.1947 *Stepanova* (SVER(F) 47471); *Stepanova* (1971); *Stavishenko* (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta* 20879 & 20918; *ibid.*, on decorticated trunk of spruce, 12.VIII.2005 *Kotiranta* 20945 & 20964. **Is:** *Stepanova* (1971). **Ou:** *Stepanova* (1971). **Vp:** *Stepanova* (1971).

Funalia trogii (Berk.) Bondartsev & Singer

Syn. *Trametes trogii* Berk.

LC • FS, HB, SB, MB • Cp, Fhd, Fhm, Slf

On *Alnus*, *Betula*, *Malus*, *Padus*, *Populus*, *Salix*, *Sorbus*, *Tilia*. Widely spread, but not common.

P: *Demidova* (1963); *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Cl:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on aspen branch, also *Trametes versicolor*, sunny forest edge, 20.VIII.2002 *Kotiranta* 19722; Revda area, Khomutovka, polluted river-side thicket forest with *Salix* spp., *Padus*, *Picea*, on dead, corticated willow, also *Bjerkandera adusta*, *Trametes pubescens*, *Irpex lacteus*, *Daedaleopsis confragosa*, *Antrodiella pallescens*, *Botryobasidium pruinatum*, *Cytidia salicina*, 26.VIII.2002 *Kotiranta* 19800; *Kotiranta et al.* (2007). **Bp:** *Demidova* (1963); *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Stepanova & Mukhin* (1979); Sisert area, Biological station USU, *Pinus*-dominated fairly old, partly relatively luxuriant forest, on aspen log, 13.VIII.1993 *Kotiranta* 10981; *ibid.*, on willow, 3.VIII.1995 *Kotiranta* 11964; *Stavishenko* (2000, 2006); *Kotiranta et al.* (2007). **PI:** *Demidova* (1963); *Stepanova* (1971); *Mukhin* (1993); *Mukhin et al.* (2003); *Kotiranta et al.* (2007). **NI:** *Mukhin* (1993). **Kh:** *Stepanova* (1971); *Stavishenko* (2003). **Is:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Ou:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971).

G

****Galzinia incrustans*** Parmasto

LC • HB • Fhm, Frd

On *Abies*, *Tilia*.

Cl: Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, old-growth *Abies*-dominated mesic herb-rich forest with *Tilia*, *Acer*, *Sorbus*, *Frangula*, on fallen trunk of fir, 19.VIII.1976 coll. *Stepanova*, det. *Parmasto* (SVER(F) 47263).

Bp: Nevjansk area, S coast of Tavatuy lake, old-growth *Picea*-dominated mesic

heath forest with *Tilia*, *Sorbus*, *Frangula*, *Juniperus*, on dead partly buried branch of linden, 9.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 56846).

Ganoderma applanatum (Pers.) Pat.

Syn. *Ganoderma lipsiense* (Batsch) G.F. Atk.

LC • FS, HB, SB, MB, NB • Cp, Cr, Fhm, Frd

On *Betula*, *Padus*, *Populus*, *Sorbus*, *Salix*, rarely on *Picea*. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **KK:** Stepanova-Kartavenko (1967); Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on dead *Sorbus aucuparia*, 19.VIII.2002 *Kotiranta 19659*; Prigorod area, Visim Nat. Res., Galashki, on birch, 18.IX.1994 *Kotiranta 11824*; *Kotiranta et al. (2007)*. **Bp:** Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); *Kotiranta et al. (2007)*; Sisert area, Biological station USU, managed forest in the Sisert river valley, on stump of birch, 27.VI.2008 *Shiryayev* (SVER(F) 56917). **PI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); *Kotiranta et al. (2007)*. **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks:** Stepanova-Kartavenko (1967); Stepanova (1971). **Nm:** Stepanova-Kartavenko (1967); Stepanova (1971). **ST:** Stepanova-Kartavenko (1967); Stepanova (1971). **PT:** Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova (1971).

Ganoderma lucidum (M.A. Curtis) P. Karst.

²**LC** • FS, HB, SB, MB, NB • Cp, Fhm, Frd, Frm

On *Abies*, *Picea*, *Betula*, *Quercus*, *Sorbus*, *Tilia*. Widely spread, but not common.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on stump of oak, 3.IX.1996 *Shiryayev* (SVER(F) 53378). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Red Book... (1996); Stavishenko (2006); *Kotiranta et al. (2007)*. **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Red Book... (1996). **PI:** Mukhin et al. (2003); *Kotiranta et al. (2007)*. **NI:** Stepanova (1971). **Ks:** **Nm:** Stepanova (1971). **PT:** Stepanova (1971). **ST:** Stepanova (1971); Red Book... (1996). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Red Book... (1996); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen trunk of birch, 20.VIII.1947 *Stepanova* (SVER(F) 51262). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Ivdel area, Ous, old-growth *Pinus*-dominated mesic heath forest, on stump of *Sorbus aucuparia*, 7.VIII.2007 *Shiryayev* (SVER(F) 53301).

Globulicium hiemale (Laurila) HjortstamSyn. *Radulomyces hiemalis* (Laurila) Parmasto**LC** • FS, HB, SB, MB, NB • Fhdv, FhmOn *Abies*, *Pinus*, *Picea*. Widely spread, but not common.

P: Achit area, Korzunovka, old-growth *Abies*-dominated forest, on fallen fir, 20.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 47868). **Cl:** Stavishenko (2006); Shiryaev & Stavishenko (2008). **Bp:** Sisert area, Biological station USU, managed *Pinus*-dominated mesic forest, on fallen pine trunk, 27.VIII.2006 *Shiryaev & Kotiranta* (SVER(F) 52147). **PI:** Tugulym area, VIII.1966 coll. *Sirko*, det. *Stavishenko* (SVER(F) 49362). **NI:** Irbit area, Yelan', managed mesic *Pinus*-forest, on pine branch, 1.IX.1966 coll. *Sirko*, det. *Kotiranta* (SVER(R) 55180). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on Siberian pine, 20.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 46953). **Is:** Ivdel area, Chernaja Parma mnt., old-growth *Picea*-dominated forest, on spruce, 22.VIII.1963 coll. *Storozheva*, det. *Parmasto* (SVER(F) 50376).

Gloeocystidiellum porosum (Berk. & M.A. Curtis) Donk**LC** • FS, HB, SB, MB • Fhm, Frd, FrmOn *Betula*, *Populus*, *Sorbus*.

Cl: Shiryaev & Stavishenko (2008). **Bp:** Sisert area, Biological station USU, managed *Pinus*-dominated mesic forest, on fallen branch of birch, 20.VIII.1993 coll. *Bryndina*, det. *Stavishenko* (SVER(F) 50128). **NI:** Mukhin (1993). **ST:** Stepanova (1971). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen trunk of aspen, 20.VIII.1947 *Stepanova* (SVER(F) 54545). **Is:** Stepanova (1971).

Gloeodontia subasperispora (Litsch.) E. Larss. & K.H. Larss.Syn. *Amylosporomyces subasperisporus* (Litsch.) Hjorst. & Ryv.**NE** • HB • FrdOn *Picea*.**PI:** Mukhin (1993); Mukhin et al. (2003).***Gloeopeniophorella convolvens*** (P. Karst.) Boidin, Lanq. & GillesSyn. *Peniophora convolvens* (P. Karst.) P. Karst., *Gloeocystidiellum convolvens* (P. Karst.) Donk**LC** • FS, HB, SB, MB • Fhm, FrdOn *Picea*, *Pinus*, *Betula*, *Sorbus*, *Ulmus*.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Sisert area, Biological Station USU, managed *Pinus*-dominated mesic forest, on

fallen branch of *Sorbus*, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 51147). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Ivdel area, Polunochnoje, managed *Pinus–Picea*-dominated mesic forest, on spruce branch, 19.VIII.2005 *Kotiranta & Shiryayev* (SVER(F) 57977).

Gloeophyllum abietinum (Bull.) P. Karst.

LC • FS, HB, SB, MB, NB, SA, AL • Cb, Cp, Cr, Fh, Fr, Sif

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

P: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **CI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on partly corticated spruce, also *Antrodia xantha*, *Fomitopsis pinicola*, *F. rosea*, *Antrodia sinuosa*, *G. sepiarium*. 26.VIII.2002 *Kotiranta 19836*; Prigorod area, Visim Nat. Res., Galashki, on *Picea*, 17.IX.1994 *Kotiranta 11772*, *ibid.*, on spruce, 18.IX.1994 *Kotiranta 11843*; *Kotiranta et al.* (2007). **Bp:** Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on partly decorticated pine, together with *Peniophorella praetermissa*, *Tubulicrinopsis ellipsospora*, *Antrodia sinuosa*, *Fomitopsis pinicola*, 27.VIII.2002 *Kotiranta 19850*; Stavishenko (2000, 2006); *Kotiranta et al.* (2007). **PI:** Demidova (1963); Stepanova (1971); Mukhin (1993); Mukhin *et al.* (2003); *Kotiranta et al.* (2007). **NI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **ST:** Demidova (1963), Stepanova-Kartavenko (1967). **Kh:** Demidova (1963); Stepanova (1971). **Is:** Demidova (1963); Stepanova-Kartavenko (1967); Stavishenko (2003). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971).

Gloeophyllum odoratum (Wulfen) Imazeki

LC • HB, SB, MB • Fhm, Frd

On *Picea*.

P: Stepanova (1971). **CI:** Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, on trunk of *Picea*, 17.IX.1994 *Kotiranta 11840*; Stavishenko (2006); *Kotiranta et al.* (2007). **Bp:** Demidova (1963); *Kotiranta et al.* (2007). **PI:** Stepanova (1971); Mukhin (1993); Mukhin *et al.* (2003); *Kotiranta et al.* (2007). **NI:** Stepanova (1971); Mukhin (1993). **Nm:** Demidova (1963). **ST:** Demidova (1963). **Kh:** Stepanova (1971); Stavishenko (2003). **Is:** Stepanova (1971).

Gloeophyllum protractum (Fr.) Imaz.

NT A3c • HB, SB, MB, NB • Fhd, Fhb, Frd

On coniferous trees.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **CI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** *Kotiranta et al.* (2007). **PI:** Stepanova-Kartavenko

(1967); Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Mukhin (1993). **Ks:** Naumov (1915); Stepanova-Kartavenko (1967). **ST:** Stepanova-Kartavenko (1967). **Kh:** Stepanova-Kartavenko (1967). **Is:** Stepanova-Kartavenko (1967).

Gloeophyllum sepiarium (Wulfen) P. Karst.

LC • FS, HB, SB, MB, NB, SA, AL • Cb, Cp, Cshi, Fh, Fr

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

P: Demidova (1963); Stepanova (1971). **KK:** Demidova (1963). **CI:** Demidova (1963); Stepanova (1971); Revda area, Khomutovka, polluted river-side thicket forest with *Salix* spp., *Padus*, *Picea abies*, on decorticated spruce, also *Fomitopsis rosea*, *Postia leucomallella* 26.VIII.2002 *Kotiranta 19819*; *ibid*, polluted old-growth forest with *Abies*, *Betula*, *Picea abies*, *Pinus*, *Populus*, on large fallen spruce, also *Diplomitoporus lindbladii*, 26.VIII.2002 *Kotiranta 19825*; *ibid*, on partly corticated spruce, also *Antrodia xantha*, *Fomitopsis pinicola*, *F. rosea*, *Gloeophyllum abietinum*, *Antrodia sinuosa*. 26.VIII.2002 *Kotiranta 19837*; Kotiranta et al. (2007).

Bp: Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Demidova (1963); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Demidova (1963); Stepanova (1971); Mukhin (1993). **Ks:** Demidova (1963); Stepanova (1971).

Nm: Demidova (1963); Stepanova (1971). **ST:** Demidova (1963); Stepanova (1971).

PT: Demidova (1963); Stepanova (1971). **Kh:** Demidova (1963); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen trunk of Siberian pine, 20.VIII.1947 *Stepanova (SVER(F) 51893)*; Stepanova (1971); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20868*; *ibid*, on decorticated spruce, 12.VIII.2005 *Kotiranta 20926*. **Is:** Demidova (1963); Stepanova (1971). **OU:** Demidova (1963); Stepanova (1971). **VP:** Stepanova (1971).

Gloeophyllum trabeum (Pers.: Fr.) Murrill

DD • HB, SB • Cp, Cr, Fhm

On deciduous & coniferous trees.

CI: Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Demidova (1963); Kotiranta et al. (2007). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971).

Gloeoporus dichrous (Fr.) Bres.

LC • FS, HB, SB, MB, NB, SA, AL • Fhm, Frd

On *Alnus*, *Betula*, *Padus*, *Salix*. Widely spread.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **Cl:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Demidova (1963); Stepanova & Mukhin (1979); Stavishenko (2000); Mukhin & Ushakova (2001); Sisert area, Biological station USU, managed *Pinus*-dominated herb-rich forest, on stump of birch, 27.VIII.2006 *Kotiranta* (SVER(F) 54932); Stavishenko (2006); Kotiranta et al. (2007). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Ks:** Kushva area, Kedrovka mnt., old-growth *Abies*-dominated mesic forest, on dead erect *Padus*, 5.VIII.2004 *Shiryayev* (SVER(F) 56059). **ST:** Verkhoturys, Vostochny, on dead birch, 20.VIII.1964 coll. *Storozheva*, det. *Shiryayev* (SVER(F) 49123). **PT:** Gari area, Zykova, on willow, VIII.1965 coll. *Sirko*, det. *Stepanova* (SVER(F) 46984). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova (1971).

Gloeoporus pannocinctus (Romell) J. Erikss.

Syn. *Ceriporiopsis pannocincta* (Romell) Gilb. & Ryvarden, *Gelatoporia pannocincta* (Romell) Niemelä

NTA3c • HB, SB • Cp, Fhmv, Frdv

On *Acer*, *Abies*, *Populus*.

Cl: Nizhneserginsk area, Mikhailovsk town park, on fallen branch of *Acer platanoides*, 15.VIII.1966 *Kazantseva* (SVER(F) 48734); *ibid.*, «Oleni Ruchii» Nat. Park, Bazhukovo, mesic heath forest with *Abies*, *Populus*, *Tilia*, *Sorbus*, *Alnus*, on fallen trunk of *Alnus*, 7.IX.2004 *Ushakova* 1153; Kotiranta et al. (2007). **Bp:** Nevjansk area, Tavatuy lake, on aspen, 17.VIII.1970 coll. *Stepanova*, det. *Almancaite* (SVER(F) 55807). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993).

Gloiodon strigosus (Sw.: Fr.) P. Karst.

VU A3c+4c, C2a(i) • HB, SB, MB • Fhmv, Frdv

On *Populus*.

Cl: Solovjev (1947); Stepanova-Kartavenko (1967). **Bp:** Sisert area, Biological station USU, mesic old growth *Pinus*-dominated forest, on trunk of aspen, 1.IX.2004 *Shiryayev* (SVER(F) 54811). **PI:** Shiryayev (2007c). **Is:** Severouralsk area, SW slope of Kumba mnt., old-growth *Picea-Abies*-dominated mesic forest, brook valley, on dead corticated aspen, 29.VIII.2005 *Shiryayev* (SVER(F) 56829).

Gloiothele lactescens (Berk.) Hjortstam

Syn. *Gloeocystidium lactescens* (Berk.) Höhn. & Litsch.

DD • FS, HB, SB, MB • Cp, Frd, RI

On *Acer* & *Tilia*.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni ruchii» Nat. Park, W slope of Bardym mnt. range, old-

growth forest with *Abies*, *Pinus*, *Tilia*, *Sorbus*, *Populus*, calcareous soil, on dead trunk of linden, 11.IX.2002 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57014). **ST**: Stepanova (1971).

Gomphus clavatus (Pers.: Fr.) Gray

¹VU A2c+3c+4c; B2ab(iii) • HB, SB, MB • Fhmv, Frdv

On soil.

P: Krasnoufimsk area, Chernaja Rechka, old-growth *Abies*-dominated forest with *Ulmus*, *Tilia*, *Acer*, *Corylus*, on rich soil (chernozem) on calcareous platform, 15.VIII.2006 *Shiryayev* (SVER(F) 47709). **Cl**: *Shiryayev* & *Stavishenko* (2008).

Bp: Sisert area, Biological station USU, on soil in old-growth *Pinus*-dominated forest, 27.VIII.2006 *Shiryayev* (SVER(F) 52686). **PI**: *Shiryayev* (2007c). **Ks**: Kushva area, SW slope of Kedrovka mnt., old-growth *Pinus*-dominated mesic forest, on soil, 4.VIII.2005 *Shiryayev* (SVER(F) 50139). **ST**: Irbit area, Zaikovo, old-growth *Betula*–*Pinus* forest with *Ulmus*, *Alnus*, on soil, 10.IX.1996 *Shiryayev* (SVER(F) 56076).

Grifola frondosa (Dicks.) Gray

²EN C1+2a(i) • HB, SB • Fhmv

On *Quercus*, rarely on other deciduous trees.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», at the base of an old oak, 17.VIII.2006 *Shiryayev* (SVER(F) 53276). **Cl**: *Shiryayev* & *Stavishenko* (2008). **Bp**: Stepanova (1971). **PI**: *Shiryayev* (2007c).



****Hapalopilus aurantiacus*** (Rostk.) Bondartsev & Singer

NE • SB • Fhm

On *Picea*.

Bp: Nevjansk area, S coast of Tavatuy lake, old-growth mesic *Picea*-dominated forest with *Tilia*, *Sorbus*, *Populus*, *Juniperus*, on spruce trunk, 4.IX.2000 *Ushakova* 1253.

Hapalopilus croceus (Pers.:Fr.) Donk

¹CR D1 • HB • Fhmv

On *Quercus*.

P: Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on an old oak, 1.IX.1996 *Shiryayev* (SVER(F) 53324).

Hapalopilus rutilans (Pers.: Fr.) MurrillSyn. *Hapalopilus nidulans* (Fr.) P. Karst.**LC** • FS, HB, SB, MB, NB, SA, AL • Fad, Fhm, Frd, FsdOn *Alnus*, *Betula*, *Corylus*, *Populus*, *Sorbus*. Widely spread and common.

P: Demidova (1963); Stepanova (1971). **KK:** Stepanova (1971). **Cl:** Stepanova (1971); Mukhin & Ushakova (2001); Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova & Mukhin (1979); Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on small birch branch, 27.VIII.2002 *Kotiranta 19874*; Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Demidova (1963); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Stepanova (1971); Mukhin (1993). **Nm:** Krasnouralsk, Dachny, on *Sorbus*, 19.VIII.1995 *Bryzgalov* (SVER(F) 50367). **ST:** Verkhoturys, Vostochny, on birch, VIII.1964 coll. *Storozheva*, det. *Shiryayev* (SVER(F) 45855). **PT:** Gari area, Zykova, on *Alnus*, VIII.1967 coll. *Sirko*, det. *Shiryayev* (SVER(F) 49756). **Kh:** Stepanova (1971); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen branch of birch, 12.VIII.2005 *Kotiranta 20959*. **Is:** Stepanova (1971). **OU:** Stepanova (1971).

Haploporus odorus (Sommerf.) Bondartsev & Singer**¹VU D2** • MB • Fhm, MdOn *Salix*, rarely on *Padus*.**Kh:** Stepanova-Kartavenko (1967); Stavishenko (2003); Red Book... (2008).****Helicobasidium brebissonii*** (Desm.) DonkSyn. *Hypochnus purpureus* Tul.**LC** • SB • Cp

Parasite on vegetables.

Bp: Ekaterinburg, private garden, on *Beta*, X.1962 coll. *Demidova*, det. *Almanaite* (SVER(F) 40784). **NI:** Irbit, glasshouses, on rotten vegetables, VIII.1971 coll. *Sirko*, det. *Raitviir* (SVER(F) 40859).

****Helicogloea farinacea*** (Höhn.) D. P. Rogers**LC** • SB • CpOn *Cerasus* (cult.), *Malus* (cult.), not found in natural environments.

Bp: Ekaterinburg, Botanical Garden RAS, on cultivated *Malus* sp., 30.X.2008 *Almanaite* (SVER(F) 42864); ibid. Botanical Garden USU, on cultivated *Cerasus* sp., 5.IX.1979 coll. *Stepanova*, det. *Govorova* (SVER(F) 40879).

****Helicogloea lagerheimi*** Pat.**LC** • HB • Fhm

On *Abies*, *Alnus*.

P: Krasnoufimsk area, Sargaja, on *Alnus glutinosa*, 27.VIII.1970 coll. *Kazantseva*, det. *Raitviir* (SVER(F) 41781). **Cl:** Shalya area, Shigaev, on *Abies*, 24.X.2008 *Almanaite* (SVER(F) 42882).

Henningsomyces candidus (Pers.) Kuntze

Syn. *Solenia candida* Pers.

LC • SB • Frm

On deciduous trees.

Cl: Stepanova (1971). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated birch, 13.VIII.1998 coll. *Ushakova*, det. *Stavishenko* (SVER(F) 53856); *ibid.*, on decorticated birch, also *Botryobasidium subcoronatum*, *Phlebia fuscoatra*, *Stereum hirsutum*, 25.VIII.2002 *Kotiranta 19775a*.

Hericium cirrhatum (Pers.) Nikol.

Syn. *Creolophus cirrhatus* (Pers.) P. Karst.

NT C2a(i) • HB, SB • Fhmv, Frdv

On *Betula* & *Populus*.

Cl: Solovjev (1946); Stepanova-Kartavenko (1967); Stavishenko (2006); Prigorod area, Baronskoye, old-growth *Picea–Pinus*-dominated mesic herb-rich forest, on fallen aspen, 4.VIII.2009 *Stavishenko 720*. **PI:** Shiryaev (2007c). **NI:** Mukhin (1993).

Hericium coralloides (Scop.: Fr.) Pers.

NT A2c+3c+4c • FS, HB, SB, MB, NB • Fhm, Fhmb, Fhmv, Frdv

On *Betula* & *Populus*. Widely spread, but not common.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Red Book... (1996); Prigorod area, Baronskoye, old-growth *Picea*-dominated herb-rich forest, on erect corticated birch, 4.VIII.2009 *Stavishenko 718 & 719*. **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Red Book... (1996); Nevjansk area, Ajat', managed *Betula–Pinus*-dominated mesic forest, on erect dead birch, 1.VIII.2000 *Shiryaev* (SVER(F) 58506); Stavishenko (2000); Sisert area, Biological station USU, Sisert river valley, on birch, 20.VIII.2004 *Shiryaev* (SVER(F) 56170); Stavishenko (2006). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Red Book... (1996). **ST:** Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Stepanova (1971); Red Book... (1996); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971).

****Hericium erinaceus*** (Bull.) Pers.

1NT C2a(i) • HB • Cp, Frdv

On *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on old living oak, 2.IX.1996 *Shiryayev* (SVER(F) 51099). **Cl:** Nizhneserginsk area, Mikhailovsk town park, on living old oak, 28.VIII.1968 coll. *Sirko*, det. *Shiryayev* (SVER(F) 49951).

****Herpobasidium filicinum*** (Rostr.) Lind

Syn. *Helicobasidium filicinum* (Rostr.) Killerm.

LC • HB, SB • Fhm, Frd

On living ferns like *Dryopteris* & *Pteridium*.

Cl: Pervouralsk, Bilimbay, old-growth *Pinus*-dominated mesic forest, on *Pteridium*, 8.IX.1972 coll. *Stepanova*, det. *Almanaite* (SVER(F) 40939). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Dryopteris*, 17.VIII.1972 coll. *Sirko*, det. *Raitviir* (SVER(F) 40956 – part in TAA). **Ks:** Kachkanar mnt., on *Dryopteris*, 16.VIII.1974 *Sirko* (SVER(F) 41312).

Heterobasidion annosum (Fr.) Bref.

LC • FS, HB, SB, MB • Fhd, Fhm, Frd

On *Pinus*. Widely spread and common.

P: *Stepanova* (1971). **Cl:** *Stepanova* (1971); *Kotiranta et al.* (2007). **Bp:** *Stepanova* (1971); *Stavishenko* (2000, 2006). **PI:** *Stepanova* (1971); *Mukhin* (1993). **NI:** *Stepanova* (1971); *Mukhin* (1993). **ST:** *Stepanova* (1971). **Kh:** *Stepanova* (1971). **Is:** *Stepanova* (1971). **OU:** *Stepanova* (1971).

Heterobasidion parviporum Niemelä & Korhonen

LC • HB, SB, MB, NB • Fhd, Fhm, Frd

On *Abies* & *Picea*. Widely spread.

Cl: *Stepanova* (1971); Prigorod area, Visim Nat. Res., Galashki, on *Picea*, 17.IX.1994 *Kotiranta 11781*; *Kotiranta et al.* (2007). **Bp:** *Stavishenko* (2000); *Stavishenko* (2006); *Kotiranta et al.* (2007). **PI:** *Mukhin* (1993); *Mukhin et al.* (2003); *Kotiranta et al.* (2007). **NI:** *Mukhin* (1993). **Kh:** *Stepanova* (1971). **Is:** *Stepanova* (1971). **OU:** *Stepanova* (1971).

Heterotextus alpinus (Tracy & Earle) G.W. Martin

LC • HB, SB, MB • Fhd, Fhm

On *Larix* & *Pinus*.

Cl: Nizhneserginsk area, Bazhukovo, on *Pinus*, 25.X.2008 *Almanaite* (SVER(F) 42841). **Bp:** Nevjansk area, Tavatuy lake, on *Pinus*, 23.VIII.1966 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40526). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Pinus*, 19.VIII.1969 *Sirko* (SVER(F) 40630). **Kh:** *Stepanova* (1971). **Is:** Severouralsk area, Bajanovka, on *Larix*, 6.VIII.2005 coll. *Mukhin*, det. *Almanaite* (SVER(F) 42562).

Heterotextus luteus (Bres.) McNabbSyn. *Corticium luteum* Bres.**LC** • HB, SB • Fhm, FrdOn *Corylus* & *Tilia*.**P:** Krasnoufimsk area, «Nizhneirginsk oak forest», on *Corylus*, 2.VIII.1999 coll. *Golumbievskaya*, det. *Govorova* (SVER(F) 41819). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971).***Hydnellum aurantiacum*** (Batsch.: Fr.) P. Karst.**LC** • FS, HB, SB, MB, NB • Fhd, Fhm

On soil in coniferous forests. Widely spread, but not common.

P: Shiryaev (2008c). **KK:** Shiryaev (2008c). **Cl:** Shiryaev & Stavishenko (2008); Shiryaev (2008c). **Bp:** Stepanova & Mukhin (1979); Shiryaev (2008c). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2007c). **NI:** Shiryaev (2008c). **Ks:** Shiryaev (2008c). **Nm:** Shiryaev (2008c). **ST:** Shiryaev (2008c). **Kh:** Tomilin (1965); Shiryaev (2008c). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); **OU:** Shiryaev (2008c). **VP:** Shiryaev (2008c).***Hydnellum auratile*** (Britz.) Maas Geest.**EN C2a(i)** • HB • Fhd, RI

On calcareous soil in mixed forest.

Cl: Shiryaev (2008c).***Hydnellum caeruleum*** (Hornem.) P. Karst.Syn. *Hydnellum compactum* (Pers.) P. Karst.**NT A2c+3c+4c; C2a(i)** • HB, SB, MB • Fhd

On soil. Widely spread, but rare.

P: Shiryaev (2008c). **KK:** Shiryaev (2008c). **Cl:** Shiryaev & Stavishenko (2008); Shiryaev (2008c). **Bp:** Stepanova (1971). **Bp:** Stepanova & Mukhin (1979); Shiryaev (2008c). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2007c). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Ks:** Shiryaev (2008c). **ST:** Shiryaev (2008c). **Nm:** Shiryaev (2008c). **Kh:** Tomilin (1965); Shiryaev (2008c). **Is:** Shiryaev (2008c). **OU:** Shiryaev (2008c).***Hydnellum concrescens*** (Pers.) BankerSyn. *Hydnellum zonatum* (Batsch) P. Karst.**LC** • FS, HB, SB, MB • Fhm, FrdOn soil in *Pinus*-forests.**Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2008c). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2008c). **PI:** Stepanova-

Kartavenko (1967); Stepanova (1971); Shiryayev (2007c, 2008c). **Is:** Ivdel area, Polunochnoje, SW slope of Chernaja Parma, old-growth *Pinus sibirica*-dominated dry forest, on soil, 20.VIII.2009 coll. *Poptsov*, det. *Shiryayev* (SVER(F) 44675).

Hydnellum ferrugineum (Fr.: Fr.) P. Karst.

LC • FS, HB, SB, MB, NB • Fhd

On soil in *Pinus*-forests. Widely spread, but not common.

P: Shiryayev (2008c). **KK:** Shiryayev (2008c). **Cl:** Shiryayev (2008c). **Bp:** Stepanova (1971); Shiryayev (2008c). **PI:** Shiryayev (2007c, 2008c). **NI:** Shiryayev (2008c). **Ks:** Shiryayev (2008c). **Nm:** Shiryayev (2008c). **PT:** Shiryayev (2008c). **Kh:** Shiryayev (2008c). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Shiryayev (2008c).

Hydnellum peckii Banker

Syn. *Hydnellum diabolus* Banker

DD • HB, SB • Fhd, Fhm

On soil in coniferous forests.

KK: Shiryayev (2008c). **Cl:** Shiryayev (2008c). **PI:** Shiryayev (2008c).

Hydnellum scrobiculatum (Fr.) P. Karst.

Syn. *Hydnellum velutinum* var. *scrobiculatum* (Fr.) Maas Geest

LC • HB, SB • Fhd, Fhm

On soil in *Picea*-forests.

P: Shiryayev (2008c). **Cl:** Shiryayev & Stavishenko (2008); Shiryayev (2008c). **Bp:** Stepanova (1971).

Hydnellum suaveolens (Scop.) P. Karst.

VU A3c+4c; B2ab(ii,iii,iv) • HB, SB, MB • Fhm

On soil in *Picea*–*Pinus*-forests.

P: Shiryayev (2008c). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev & Stavishenko (2008); Shiryayev (2008c). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **NI:** Shiryayev (2008c). **Kh:** Tomilin (1965); Stepanova (1971); Shiryayev (2008c).

****Hydnum ellipso sporum*** Ostrow & Beenken

LC • HB, SB, MB • Fhm, Frd

On soil. Less widely distributed and rarer than *H. umbilicatum*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus*–*Quercus*-dominated mesic forest, on soil, 17.VIII.2006 *Shiryayev* (SVER(F) 50254). **Cl:** Nizhneserginsk area, «Oleni ruchii» Nat. Park, W slope of Bardym mnt. range, old-growth forest with *Abies*, *Pinus*, *Tilia*, *Sorbus aucuparia*, *Populus*, on soil,

11.IX.2002 *Shiryayev* (SVER(F) 52645). **Bp**: Sisert area, Biological station USU, on soil in old-growth *Pinus*-dominated forest, 27.VIII.2006 *Shiryayev* (SVER(F) 54447). **PI**: Tugulym area, on soil in mixed spruce–pine-forest, on soil, IX.1968 coll. *Sirko*, det. *Shiryayev* (SVER(F) 55952). **Is**: Ivdel area, Chernaja Parma mnt., old-growth *Picea–Pinus sibirica*-dominated forest, on soil, 17.VIII.1963 coll. *Storozheva*, det. *Shiryayev* (SVER(F) 49928).

***Hydnum repandum* L.: Fr.**

LC • FS, HB, SB, MB, NB • Fhm, Frd

On soil. Widely spread, but rare.

P: Stepanova (1971). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); *Shiryayev* & Stavishenko (2008). **Bp**: Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979). **PI**: *Shiryayev* (2007c). **ST**: Stepanova (1971). **Kh**: Tomilin (1965). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971).

***Hydnum rufescens* Schaeff.: Fr.**

LC • FS, HB, SB, MB, NB • Fhm, Frd

On soil. Widely spread, but not common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **Cl**: *Shiryayev* & Stavishenko (2008). **Bp**: Stepanova (1971). **PI**: *Shiryayev* (2007c). **NI**: Irbit area, Yelan', managed spruce–pine-forest, on soil, 21.VIII.1964 coll. *Storozheva*, det. *Shiryayev* (SVER(F) 46264). **Nm**: Krasnouralsk, on soil in forest, 4.IX.1966 coll. *Kazantseva*, det. *Shiryayev* (SVER(F) 54288). **ST**: Verkhoturkiye, Vostochny, on soil, VIII.1962 coll. *Storozheva*, det. *Shiryayev* (SVER(F) 55455). **Kh**: Severouralsk area, Krivinskaya mnt., spruce–Siberian pine-dominated mesic forest, on soil, 18.VIII.1946 coll. *Solovjev*, det. *Shiryayev* (SVER(F) 45029). **Is**: Ivdel area, Chernaja Parma mnt., old-growth *Picea–Pinus sibirica*-dominated forest, on soil, 17.VIII.1963 coll. *Storozheva*, det. *Shiryayev* (SVER(F) 48993).

****Hydnum umbilicatum* Peck**

LC • FS, HB, SB, MB, NB, SA • Fhm, Frd

On soil. Widely spread, but not common.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus–Quercus* dominated mesic forest, on soil, 17.VIII.2006 *Shiryayev* (SVER(F) 51766). **Cl**: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, W slope of Bardym mnt. range, old-growth forest with *Abies*, *Pinus*, *Tilia*, *Sorbus aucuparia*, *Populus*, on soil, 11.IX.2002 *Shiryayev* (SVER(F) 55295). **Bp**: Sisert area, Biological station USU, on soil in old-growth *Pinus*-dominated forest, 27.VIII.2006 *Shiryayev* (SVER(F) 55815). **PI**: Tugulym area, on soil in intermixed spruce–pine-forest, on soil, IX.1968 coll. *Sirko*, det. *Shiryayev* (SVER(F) 48730). **Ks**: Kushva area, SW slope of Kedrovka mnt., old-growth mesic *Pinus*-dominated forest, on soil, 4.VIII.2005

Shiryayev (SVER(F) 54429). **Kh:** Severouralsk area, Krivinskaya mnt., spruce–Siberian pine-dominated mesic forest, on soil, 18.VIII.1946 coll. *Solovjev*, det. *Shiryayev* (SVER(F) 46658). **Is:** Ivdel area, Chernaja Parma mnt., old-growth *Picea–Pinus sibirica*-dominated forest, on soil, 17.VIII.1963 coll. *Storozheva*, det. *Shiryayev* (SVER(F) 49131). **Ou:** Ivdel area, Ous, old-growth spruce–Siberian pine-dominated mesic forest, on soil, 7.VIII.2007 *Shiryayev* (SVER(F) 57079).

Hymenochaete cinnamomea (Pers.) Bres.

Syn. *Hymenochaete arida* (P. Karst.) Sacc.

LC • FS, HB, SB, MB • Fhm, Frd

On deciduous trees.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Sisert area, Biological station USU, managed *Pinus*-dominated mesic forest, on birch, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 54920). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **ST:** Stepanova (1971).

Hymenochaete corrugata (Fr.) Lév.

LC • SB • Fhm, Frd

On *Populus & Tilia*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Bondartseva (1986). **Bp:** Sisert area, Biological station USU, old-growth *Pinus*-dominated mesic forest, on aspen, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 55555).

Hymenochaete cruenta (Pers: Fr.) Donk

Syn. *Hymenochaete mougeotii* (Fr.) Cooke

LC • HB, SB, MB, NB • Fhm, Frd

On *Abies*. Widely spread.

Cl: Solovjev (1946, 1947); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus tremula*, on small, dead erect fir, 20.VIII.2002 *Kotiranta 19726*; Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on corticated fir, also *Trichaptum fuscoviolaceum*, *Hyphoderma setigerum*, 26.VIII.2002 *Kotiranta 19827*; Prigorod area, Visim Nat. Res., Galashki, on fallen fir 17.IX.1994 *Kotiranta 11795 & 11976*; *ibid.*, on fir, 18.IX.1994 *Kotiranta 11818*. **Bp:** Stavishenko (2000, 2006). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, dark-coniferous forest, on fir trunk, 14.VIII.1965 coll. *Sirko*, det. *Mukhin* (SVER(F) 52516). **NI:** Mukhin (1993a). **Ks:** Stepanova-Kartavenko (1967); Stepanova (1971). **Nm:** Stepanova-Kartavenko (1967); Stepanova (1971). **ST:** Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, E slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp.,

Populus, Sorbus, Padus, Salix spp., on dead fir, 20.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 52779); *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Stavishenko* (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica, P. sylvestris, Abies, Picea, Betula* spp., *Sorbus, Padus, Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta 20869*. **Is**: *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **OU**: *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **VP**: *Stepanova* (1971).

***Hymenochaete fuliginosa* (Pers.) Lév.**

LC • HB, SB, MB • Fhm

On *Abies* & *Picea*. Widely spread.

P: Achit area, Korzunovka, old-growth *Abies*-dominated mesic forest, on dead fir branch, 18.VIII.1960 *Stepanova* (SVER(F) 46711). **Cl**: *Stavishenko* (2006). **Bp**: Nevjansk area, Tavatuy Lake, on spruce, 19.VIII.1993 *Bryndina* (SVER(F) 53919). **PI**: Tugulym area, «Pripyshminsk Bory» Nat. Park, old-growth pine–spruce-dominated forest, on branch of spruce, 17.VIII.1954 coll. *Stepanova*, det. *Mukhin* (SVER(F) 54935). **NI**: Irbit area, Yelan', on spruce branch, 4.IX.1965 coll. *Sirko*, det. *Kotiranta* (SVER(F) 50884). **Ks**: Kushva area, Delyanochnaja mnt., on fir branch, VIII.1968 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 47604). **ST**: Verkhoturiiye, Vostochny, managed *Picea*-dominated forest, on spruce, 17.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 51775). **Kh**: *Stepanova* (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica, P. sylvestris, Abies, Picea, Betula* spp., *Populus, Sorbus, Padus, Salix* spp., on fallen trunk of fir, 20.VIII.1947 *Stepanova* (SVER(F) 48747). **OU**: Ivdel area, Ous, old-growth spruce–Siberian pine-dominated mesic forest, on spruce, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56073).

****Hymenochaete rubiginosa* (Fr.) Lév.**

NT A3c; B2a(iii); D1 • FS, HB • Cp, Frd

On *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», mixed luxuriant forest with *Pinus, Acer, Tilia, Ulmus, Quercus, Corylus*, on fallen branch of oak, 2.IX.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 51769); *ibid*, Krasnoufimsk, town park, managed forest park with *Quercus, Acer negundo, A. platanoides, Ulmus glabra, Padus maackii*, on branch of oak, 24.VIII.1999 coll. *Golumbievskaya*, det. *Stavishenko* (SVER(F) 52659).

****Hymenochaete ulmicola* Corfixen & Parmasto**

NE • HB, SB • Cp, Frd

On *Ulmus* spp.

P: Krasnoufimsk area, Krasnoufimsk town park, on branch and bark of elm, 1.IX.1999 coll. *Golumbievskaya*, det. *Almanaite* (SVER(F) 51388). **Bp**:

Ekaterinburg, city park, on bark of living elm, 24.VIII.2006 *Kotiranta* (SVER(F) 56580).

Hyphoderma argillaceum (Bres.) Donk

Syn. *Peniophora argillacea* (Bres.) Sacc. & P. Syd.

LC • FS, HB, SB, MB, NB, SA, AL • Ah, Fad, Fhd, Fhm, Frd, Ml, Md

On *Abies*, *Picea* and *Pinus*. Widely spread.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated, partly charred pine, also *Botryobasidium subcoronatum*, *Vesiculomyces citrinus*, 25.VIII.2002 *Kotiranta* 19766. **PI:** Mukhin (1993); Mukhin et al. (2003). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of spruce, 21.VIII.1947 Stepanova (SVER(F) 48485); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta* 20874a; ibid, on decorticated spruce, 12.VIII.2005 *Kotiranta* 20884; ibid, on decayed conifer trunk, 12.VIII.2005 *Kotiranta* 20970; ibid, southern slope of Oykachakhl mnt. (1000 m a.s.l.), mnt. tundra, on shrubs of *Juniperus sibirica*, 13.VIII.2005 *Kotiranta* 20898b & 20900. **Is:** Ivdel area, Chernaja Parma mnt., old-growth *Picea–Pinus sibirica*-dominated mesic forest, 20.VIII.1963 coll. *Stavishenko* (SVER(F) 49300).

****Hyphoderma cremeoalbum*** (Höhn. & Litsch.) Jülich

LC • FS, HB, SB • Fhm

On *Abies*, *Populus*, *Tilia*.

P: Achit area, Korzunovka, on fir trunk, 23.VIII.1960 coll. Stepanova, det. *Parmasto* (SVER(F) 52168). **Cl:** Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, old-growth *Abies*-dominated herb-rich forest, on dead fallen linden, 4.IX.1969 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 49215). **NI:** Irbit area, Zaikovo, river valley, on fallen *Populus nigra*, 20.VIII.1965 coll. *Sirko*, det. *Stavishenko* (SVER(F) 54484).

****Hyphoderma incrustatum*** K.H. Larss.

LC • MB, NB • Fhm, Frd

On *Populus* & *Sorbus*.

Kh: Severouralsk area, Kazansky Kamen mnt. range, old-growth *Picea–Pinus sibirica*-dominated mesic forest, on stump of *Populus*, 17.VIII.1947 coll. Stepanova, det. *Stavishenko* (SVER(F) 54417). **OU:** Ivdel area, Ous, meadow in *Picea*-dominated forest, on fallen branch of *Sorbus sibirica*, 7.VIII.2007 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57531).

Hyphoderma medioburiense (Burt) Donk**LC** • HB, SB, MB • Fhm, FrdOn *Acer*, *Betula*, *Sorbus*.

P: Achit area, Korzunovka, old-growth *Abies*-dominated nemoral herb-rich forest with *Tilia*, *Acer*, *Ulmus*, *Sorbus*, *Frangula*, in fallen branch of maple, 25.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 48341). **Ks:** Stepanova (1971); Kushva area, Baranchinsky, on fallen branch of *Sorbus*, 16.VIII.1965 *Stepanova* (SVER(F) 50636). **ST:** Verkhneturinsk area, Verkhoturye, Vostochny, managed deciduous forest, on *Betula* trunk, 4.IX.1960 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 52270).

Hyphoderma mutatum (Peck.) Donk**LC** • HB, SB • Fhm, FrdOn *Populus* & *Sorbus*.

P: Achit area, Korzunovka, old-growth *Abies*-dominated mesic herb-rich forest, on dead branch of aspen, 26.VIII.1960 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 51759). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993).

Hyphoderma roseocremeum (Bres.) Donk**LC** • FS, HB, SB • Fhm, FrdOn *Picea*, *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus*–*Quercus*-dominated mesic forest, on partly buried trunk of oak, 2.IX.1996 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 52951). **CI:** Nizhneserginsk area, S of Nizhniye Sergi town, old-growth *Abies*-dominated luxuriant forest with *Picea*, *Pinus*, *Betula*, *Populus*, *Tilia*, *Sorbus*, *Alnus*, *Rhamnus*, on fallen branch of spruce, 7.IX.2004 coll. *Ushakova*, det. *Stavishenko* (SVER(F) 51805). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979). **PI:** Mukhin (1993); Mukhin et al. (2003).

Hyphoderma setigerum (Fr.) Donk.Syn. *Hyphoderma cristulatum* (Fr.) Donk**LC** • FS, HB, SB, MB, NB, SA, AL • Ah, Cp, Cshi, Fad, Fhd, Fhm, Fhmv, Frd, Frm, FsmOn *Picea*, *Pinus*, *Betula*, *Alnus*, *Padus*, *Sorbus*. Widely spread and common.

P: Demidova (1963), Stepanova (1971). **KK:** Stepanova (1971). **CI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on corticated fir, 20.VIII.2002 *Kotiranta* 19711; Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on corticated fir, also *Trichaptum fuscoviolaceum*, *Hymenochaete cruenta*, 26.VIII.2002 *Kotiranta* 19829; Prigorod area, Visim Nat. Res., Galashki, on fallen *Betula* trunk, 18.IX.1994 *Kotiranta* 11812; Mukhin & Ushakova (2001). **Bp:** Demidova (1963);

Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, corticated pine, 13.VIII.1993 *Kotiranta 10986*; *ibid.*, on corticated birch branch with *Leptosporomyces galzinii*, *Piptoporus betulinus*, 25.VIII.2002 *Kotiranta 19760*; *ibid.*, on strongly human influenced grass-herb forest, on decorticated *Padus* branch, together with *Peniophora cinerea*, 27.VIII.2002 *Kotiranta 19866*; *ibid.*, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., corticated birch, also *Daedaleopsis tricolor*, 27.VIII.2002 *Kotiranta 19878*; *ibid.*, on small corticated birch, also *Polyporus leptcephalus*, *Daedaleopsis tricolor*, *Fomes fomentarius*. 27.VIII.2002 *Kotiranta 19887*; *ibid.*, on corticated pine, also *Phlebia gigantea*, *Trichaptum fuscoviolaceum*, 27.VIII.2002 *Kotiranta 19892*. **PI:** Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Mukhin (1993). **Nm:** Demidova (1963). **ST:** Stepanova (1971). **Kh:** Ivdel area, Molebny Kamen mnt. range, southern slope of Oykachakhl mnt. (1000 m a.s.l.), mnt. tundra, on *Salix glauca* shrubs, 13.VIII.2005 *Kotiranta 20905* & *Votintseva*. **Is:** Stepanova-Kartavenko (1967). **OU:** Ivdel area, Ous, managed deciduous forest, on dead branch of birch, 7.VIII.2007 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 52864).

****Hyphoderma sibiricum*** (Parmasto) J. Erikss. & A. Strid

LC • SB, MB • Fhd, Fhm

On *Abies* & *Picea*.

Cl: Shalya area, Shigaevo, old-growth *Abies*-dominated mesic forest, on fallen trunk of fir, 6.VIII.2007 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 53785). **Ks:** Kushva area, Baranchinsky, on dead spruce, 20.VIII.1965 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 55483). **Is:** Severouralsk area, Kumba mnt., old-growth *Abies*-dominated forest, on fallen trunk of spruce, 17.VIII.1947 coll. *Solovjev*, det. *Parmasto* (SVER(F) 49976).

****Hyphoderma transiens*** (Bres.) Parmasto

Syn. *Odontia transiens* Bres., *Odontia longispora* H. Furuk.

NT C2a(i) • HB • Fhm

On *Ulmus*.

P: Krasnoufmsk area, Chernaja Rechka, managed mesic deciduous heath forest with *Ulmus*, *Tilia*, *Populus*, *Acer*, *Sorbus*, on dead fallen elm, 15.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 55604).

****Hyphodontia abieticola*** (Bourdot & Galzin) J. Erikss.

LC • SB, MB • Fhm

On *Picea*.

Cl: Shalya area, Shigaevo, old-growth *Pinus*-dominated herb-rich forest, on partly buried branch of spruce, 3.IX.2000 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 55654).

Ks: Kushva area, W slope of Kedrovka mnt., on dead spruce, 29.VIII.1959 coll. *Storozheva*, det. *Kotiranta* (SVER(F) 50116). **Kh:** Severouralsk area, E slope of Kazansky Kamen mnt. range, coniferous forest of *Vaccinium-Hylocomyosum* type, on spruce, 17.VIII.1947 coll. *Solovjev*, det. *Parmasto* (SVER(F) 53766).

***Hyphodontia alienata** (Lundell) J. Erikss.

LC • HB, SB • Frd

On *Betula*.

Bp: Sisert area, Biological station USU, managed *Pinus*-dominated mesic forest, on fallen trunk of birch, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 56841). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, old-growth *Pinus*-dominated mesic herb-rich forest, on partly buried branch of birch, 19.VIII.1952 coll. *Stepanova*, det. *Mukhin* (SVER(F) 52021).

Hyphodontia alutacea (Fr.) J. Erikss.

Syn. *Alutaceodontia alutacea* (Fr.) Hjortstam & Ryvar den, *Odontia alutacea* (Fr.) Quél.

LC • FS, HB, SB, MB, NB • Fhm, Frd

On *Abies*, *Picea*, *Pinus*. Widely spread.

P: Krasnoufimsk area, Chernaja Rechka, old-growth *Abies*-dominated herb-rich forest, on fallen trunk of fir, 15.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 54831). **CI:** *Shiryayev & Stavishenko* (2008). **Bp:** Nevjansk area, Tavatuy lake, old-growth *Picea*-dominated forest, on fallen trunk of pine, 30.VIII.1965 coll. *Sirko*, det. *Stepanova* (SVER(F) 52533). **PI:** *Mukhin* (1993). **NI:** *Stepanova* (1971). **Ks:** Kushva area, Kedrovka mnt., on fallen trunk of fir, 12.VIII.1959 coll. *Storozheva*, det. *Mukhin* (SVER(F) 49117). **ST:** *Stepanova* (1971). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of spruce, 20.VIII.1947 *Stepanova* (SVER(F) 45836); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 12.VIII.2005 *Kotiranta* 20887. **Is:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **OU:** *Stepanova* (1971).

Hyphodontia alutaria (Burt.) J. Erikss.

LC • HB • Fhd, Fhm

On *Pinus*.

PI: *Stepanova* (1971); *Mukhin* (1993); *Mukhin et al.* (2003).

Hyphodontia arguta (Fr.) J. Erikss.

LC • FS, HB, SB, MB • Fhm

On *Picea*, *Pinus*, *Populus*, *Sorbus*, *Ulmus*. Widely spread.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», mixed forest with *Pinus*, *Tilia*, *Quercus*, *Sorbus*, *Ulmus*, *Rhamnus*, *Corylus*, *Euonymus verrucosa*, on fallen branch of elm, 9.IX.1996 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57020). **CI:** Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, on decorticated *Sorbus aucuparia* 19.VIII.2002 *Kotiranta 19684a*; *Shiryayev* & *Stavishenko* (2008). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **Kh:** Severouralsk area, Kazansky Kamen mnt. range, old-growth spruce-dominated mesic forest, on fallen trunk of *Populus*, 19.VIII.1947 coll. *Stepanova*, det. *Mukhin* (SVER(F) 52053). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971).

Hyphodontia aspera (Fr.) J. Erikss.

LC • FS, HB, SB, MB, NB, SA • Fhd, Fhm, Frd

On *Betula*, *Picea*, *Pinus*, *Tilia*. Widely spread and common.

P: Krasnoufimsk area, Sarana, slope to Ufa river, managed mesic broad-leaved forest, on fallen branch of *Tilia*, 27.VIII.1960 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 45962). **CI:** Stepanova (1971); Mukhin & Ushakova (2001). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, strongly decayed, decorticated pine, together with *Antrodia sinuosa*, 3.VIII.1995 *Kotiranta 11967*. **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Ks:** Kushva area, Kedrovka mnt., old-growth *Pinus*-dominated mesic forest, on trunk of birch, 29.VIII.1959 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 47599). **Kh:** Severouralsk area, Kazansky Kamen mnt. range, old-growth spruce-dominated mesic forest, on fallen trunk of spruce, 19.VIII.1947 coll. *Stepanova*, det. *Mukhin* (SVER(F) 49725). **Is:** Ivdel area, Polunochnoje, managed *Picea*-dominated mesic forest, on partly buried branch of spruce, 19.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 56478). **OU:** Stepanova (1971).

Hyphodontia barba-jovis (Bull.) J. Erikss.

LC • FS, HB, SB, MB, NB • Fhm, Frd

Mostly on deciduous trees, seldom on conifers.

P: Stepanova (1971); Bisert area, Klenovskoje, managed deciduous herb-rich forest, on dead branch of *Tilia*, 12.IX.2000 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58968). **CI:** *Shiryayev* & *Stavishenko* (2008). **Bp:** Stepanova & Mukhin (1979); Sisert area, Biological station USU, mesic managed deciduous forest, on fallen branch of *Sorbus*, 30.VI.2008 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 58209). **PI:** Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., old-growth *Picea-Pinus sibirica*-dominated

mesic forest, on fallen trunk of aspen, 3.IX.1968 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 45049). **Is**: Ivdel area, Polunochnoje, managed *Picea*-dominated forest, on fallen branch of birch, 19.VIII.2005 *Kotiranta* (SVER(F) 56295). **Ou**: Ivdel area, Ous, old-growth *Pinus*-dominated dry forest, on dead fallen trunk of spruce, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58083).

Hyphodontia breviseta (P. Karst.) J. Erikss.

LC • FS, HB, SB, MB, NB • Fhd, Fhm

Mostly on conifers, very seldom on deciduous trees. Widely spread.

Cl: Nizhneserginsk area, western slope of Bardym mnt. range, «Mikhailovsk Zavod», mixed forest with *Abies*, *Pinus*, *Tilia*, *Populus*, *Betula*, *Sorbus*, *Rhamnus*, on corticated fir trunk, 3.IX.1957 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 57021 – part in H.K.); *Stavishenko* (2006). **Bp**: Nevjansk area, Tavatuy lake, old-growth *Picea*-dominated forest, on fallen *Populus*, 28.VIII.1966 coll. *Sirko*, det. *Mukhin* (SVER(F) 53289). **Kh**: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta* 20870 & 20877; *ibid.*, on decorticated fir, 12.VIII.2005 *Kotiranta* 20881b & 20939; *ibid.*, on decayed branch of conifer 13.VIII.2005 *Kotiranta* 20910; Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead trunk of fir, 21.VIII.1947 *Stepanova* (SVER(F) 45453). **Is**: Ivdel area, Chistop mnt., old-growth coniferous forest, on fallen trunk of *Pinus sibirica*, 18.VIII.1949 coll. *Solovjev*, det. *Mukhin* (SVER(F) 45869). **Ou**: Ivdel area, Ous, old-growth *Picea*–*Pinus sibirica*-dominated mesic forest, on partly buried trunk of spruce, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57953).

Hyphodontia crustosa (Pers.) J. Erikss.

Syn. *Basidioradulum crustosum* (Pers.) Zmitr., Malysheva & Spirin, *Odontia albicans* (Pers.) L.W. Mill. & J.S. Boyle

LC • FS, HB, SB, MB, NB, SA, AL • Ah, Cp, Cshi, Fad, Fhd, Fhm, Frd, Fsm, MI, Sif
Mostly on deciduous trees, seldom on conifers. Widely spread and common.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus*–*Quercus*-dominated mesic forest, on fallen branch of oak, 2.IX.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 55929). **Cl**: *Stepanova-Kartavenko* (1967); *Mukhin & Ushakova* (2001); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on decorticated, fairly dry *Sorbus aucuparia*, 19.VIII.2002 *Kotiranta* 19664; *Stavishenko* (2006). **Bp**: *Stepanova-Kartavenko* (1967); *Stepanova & Mukhin* (1979); *Sisert* area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine, also *Botryobasidium vagum*, 27.VIII.2002 *Kotiranta* 19855; *ibid.*, on strongly human influenced grass-herb

forest, on corticated *Padus* branch, 27.VIII.2002 *Kotiranta 19871*. **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Mukhin (1993). **Ks:** Kushva area, Kedrovka mnt., old-growth *Pinus*-dominated mesic forest, on trunk of birch, 29.VIII.1959 coll. *Storozheva*, det. *Mukhin* (SVER(F) 48983). **PT:** Stepanova (1971). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead Siberian pine, 20.VIII.1947 *Stepanova* (SVER(F) 46459); Ivdel area, Molebny Kamen mnt. range, southern slope of Oykachakhl mnt. (1000 m a.s.l.), mnt. tundra, on shrubs of *Salix glauca*, 13.VIII.2005 *Kotiranta 20904*. **Is:** Stepanova (1971). **OU:** Ivdel area, Ous, old-growth *Picea*-dominated mesic forest, on fallen aspen, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58465).

****Hyphodontia detritica*** (Bourdot & Galzin) J. Erikss

Syn. *Hypochnicium detriticum* (Bourdot & Galzin) J. Erikss. & Ryvarden, *Lagarobasidium detriticum* (Bourdot & Galzin) Jülich

LC • **SB** • Fhm, Frd

On *Populus* & *Sorbus*.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, on decorticated *Sorbus aucuparia*, 19.VIII.2002 *Kotiranta 19684b*; *ibid.*, on decorticated aspen, 19.VIII.2002 *Kotiranta 19687*; *ibid.*, on decorticated aspen, 19.VIII.2002 *Kotiranta 19688b*; *ibid.*, on decorticated aspen branch, together with *Botryobasidium leave*, 20.VIII.2002 *Kotiranta 19715a*.

****Hyphodontia flavipora*** (Cooke) Sheng H. Wu

Syn. *Schizopora flavipora* (Berk. & M.A. Curtis ex W.B. Cooke) Sheng H. Wu

LC • **HB** • Frd

On *Populus*, *Quercus*, *Tilia*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», *Pinus–Quercus*-dominated forest with *Acer*, *Tilia*, *Sorbus*, on fallen branch of oak, 2.IX.1997 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 55943); *ibid.*, Chernaya Rechka, nemoral forest, on fallen trunk of linden, 14.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 54798). **Cl:** Nizhneserginsk area, Mikhailovsk, SW slope of Bardym mnt. range, old-growth forest with *Abies*, *Pinus*, *Tilia*, *Populus*, *Acer*, on trunk of aspen, 9.IX.1966 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 49615).

****Hyphodontia halonata*** J. Erikss. & Hjortstam

NE • **MB** • Fhd

On *Pinus*.

Is: Ivdel area, Polunochnoje, old-growth *Picea–Pinus sibirica*-dominated dry forest, on stump of pine, 19.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 56563).

Hyphodontia hastata (Litsch.) J. Erikss.

LC • FS, HB, SB, MB, NB • Fhd, Fhm

On conifers. Widely spread.

Cl: Shalya area, Sylva, on fir trunk, 2.IX.1967 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 59595). **Bp:** Sisert area, Biological station USU, managed *Pinus*-dominated mesic forest, on pine trunk, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 58585). **PI:** Mukhin (1993); Mukhin et al. (2003). **Ks:** Kushva area, Kedrovka mnt., old-growth coniferous forest, on fallen spruce branch, 7.IX.2004 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56181). **ST:** Verkhoturiye, Vostochny, managed pine forest, on pine trunk, 17.VIII.1963 coll. *Storozheva*, det. *Mukhin* (SVER(F) 48353). **Is:** Ivdel area, Chistop mnt., old-growth coniferous forest, on fallen dead trunk of *Pinus sibirica*, 18.VIII.1949 coll. *Solovjev*, det. *Mukhin* (SVER(F) 45425).

****Hyphodontia latitans*** (Bourdot & Galzin) Ginns & M.N.L. LefebvreSyn. *Chaetoporus latitans* (Bourdot & Galzin) Parmasto

DD • SB, MB • Fhmv

On *Picea* & *Pinus*.

Cl: Shalya area, Shigaevo, old-growth *Abies*-dominated mesic heath forest, on pine trunk, 3.IX.2000 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 57978). **Is:** Karpinsk area, Konzhakov Kamen' mnt. range, old-growth *Picea-Pinus sibirica*-dominated mesic forest, on fallen spruce, 20.VIII.1966 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 50377).

****Hyphodontia microspora*** J. Erikss. & Hjortstam

NE • HB • Frdv

On *Acer*.

P: Krasnoufimsk area, Sargaja, old-growth *Pinus*-dominated herb-rich forest with *Quercus*, *Acer*, *Tilia*, *Corylus*, *Euonymus*, on fallen branch of maple, 28.VIII.1969 coll. *Stepanova*, det. *Parmasto* (SVER(F) 49109).

Hyphodontia nespori (Bres.) J. Erikss. et Hjortstam

NT B1+2ab(iii); D1 • HB, SB • Fhmv

On *Quercus*, *Populus*, *Pinus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus-Quercus*-dominated mesic forest, on fallen branch of oak, 2.IX.1996 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 55330). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on decorticated aspen branch, together with *Botryobasidium leave*, 20.VIII.2002 *Kotiranta 19715b*. **PI:** Mukhin et al. (2003).

Hyphodontia pallidula (Bres.) J. Erikss.

LC • FS, HB, SB, MB, NB • Fhm, Frd

On *Abies*, *Picea*, *Populus*, *Sorbus*. Widely spread.

P: Stepanova (1971). **Cl:** Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on decorticated aspen branch, together with *Scopuloides rimosa*, 20.VIII.2002 *Kotiranta 19732*; Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on decorticated fir, 26.VIII.2002 *Kotiranta 19830*; Shiryayev & Stavishenko (2008). **Bp:** Nevjansk area, Tavatuy lake, old-growth *Picea*-dominated forest, on dead *Sorbus*, 17.VIII.1972 coll. *Stepanova*, det. *Parmasto* (SVER(F) 48235). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **ST:** Stepanova (1971). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of conifer, 21.VIII.1947 *Stepanova* (SVER(F) 46440). **Is:** Severouralsk area, Bajanovka village, on fallen branch of aspen, 10.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 56206). **OU:** Stepanova (1971).

Hyphodontia paradoxa (Schrad.) Langer & Vesterh.

Syn. *Polyporus versiporus* Pers., *Schizopora paradoxa* (Schrad.) Donk

LC • FS, HB, SB, MB • Cp, Fhm, Frd

On deciduous trees.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Bisert area, Klenovskoje, managed deciduous herb-rich forest, on fallen branch of linden, 10.IX.1996 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 48842). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Shiryayev & Stavishenko (2008). **Bp:** Ekaterinburg, Botanical Garden RAS, on dead trunk of *Juglans mandshurica* (cult.) and dead fruitbodies of *Ganoderma applanatum*/dead roots of the *Juglans*, 20.X.2008 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58198). **Ks:** Naumov (1915); Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Severouralsk area, Kumba mnt., old-growth *Picea*-dominated forest, on fallen trunk of birch, 27.VIII.1947 coll. *Solovjev*, det. *Almanaita* (SVER(F) 55535).

****Hyphodontia pilaecystidiata*** (S. Lundell) J. Erikss.

Syn. *Deviodontia pilaecystidiata* (S. Lundell) Hjortstam & Ryvarden

NE • SB • Fhm

On *Salix*.

Ks: Kushva area, Kedrovka mnt., old-growth *Abies*-dominated mesic heath forest, on fallen branch of *Salix caprea*, 20.IX.1998 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 56457).

****Hyphodontia pruni*** (Lasch) J. Erikss. & HjortstamSyn. *Xylodon pruni* (Lasch) Hjortstam & Ryvardeen**VU** C2a(i) • HB • FrdOn *Corylus* & *Ulmus*.

P: Krasnoufimsk area, Sargaja, old-growth *Pinus*-dominated herb-rich forest, on fallen branch of hazel, 29.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 47457 – part in TAA). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, calcareous slope to Serga river, on dead branch of elm, 4.IX.2001 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 54468).

Hyphodontia quercina (Pers. : Fr.) J. Erikss.Syn. *Basidioradulum quercinum* (Pers.) H. Furuk., *Xylodon quercinum* (Pers.: Fr.) Gray**EN** C1+2a(i) • HB, SB • Cp, FrdOn *Quercus*, rarely on other deciduous trees.

P: Krasnoufimsk area, «Nizhneirginsk oak forest» Nat. Park, mixed forest with *Pinus*, *Tilia*, *Quercus*, *Sorbus*, *Rhamnus*, *Corylus*, *Euonymus*, on fallen branch of oak, 3.IX.1946 coll. *Solovjev*, det. *Kotiranta* (SVER(F) 57011 – part in H.K.). **Bp:** *Stepanova* & *Mukhin* (1979).

Hyphodontia radula (Pers.: Fr.) E. Langer & VesterholtSyn. *Poria radula* Pers.**LC** • FS, HB, SB • Frd, Frm

On deciduous trees.

P: *Stepanova* (1971); Krasnoufimsk area, Ust-Bugalish, old-growth deciduous forest with *Tilia*, *Quercus*, *Acer*, *Sorbus*, *Rhamnus*, *Corylus*, *Euonymus*, on fallen branch of maple, 5.VIII.1962 coll. *Sirko*, det. *Kotiranta* (SVER(F) 57022 – part in H.K.). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, old-growth *Abies*-dominated herb-rich forest, on dead branch of linden, 4.IX.2001 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 52257). **PI:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Stepanova* & *Mukhin* (1979).

Hyphodontia rimosissima (Peck) Gilbertson**LC** • SB • Cp, Cshi, Fhd, Fhm, FrdOn *Padus*, *Populus*, *Tilia*, *Ulmus*, *Pinus*.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on decorticated aspen, together with *Amphinema byssoides*, *Antrodia pulvinascens*, 20.VIII.2002 *Kotiranta* 19718; Prigorod area, Visim Nat. Res., Galashki, on dead trunk of *Tilia*, 17.IX.1994 *Kotiranta* 11835. **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, hard, decorticated pine branch, 25.VIII.2002 *Kotiranta* 19744; *ibid.*,

decorticated pine branch, together with *Phlebiella sulphurea*, *Botryobasidium vagum*, 25.VIII.2002 *Kotiranta 19748*; *ibid.*, small decorticated pine, together with *Peniophorella praetermissa*, 25.VIII.2002 *Kotiranta 19751*; *ibid.*, on strongly human influenced grass-herb forest, on decorticated *Padus* branch, together with *Peniophorella praetermissa*, *Tomentella* sp., 27.VIII.2002 *Kotiranta 19867*. **NI**: Irbit area, Zaikovo, valley of Irbit river, on dead branch of elm, 15.VIII.1975 coll. *Stepanova*, det. *Parmasto* (SVER(F) 49095).

Hyphodontia sambuci (Pers.) J. Erikss.

Syn. *Lyomyces sambuci* (Pers.) P. Karst., *Peniophora sambuci* (Pers.) Burt

LC • FS, HB, SB • Fhm, Frd

On *Acer*, *Tilia*, *Sambucus*.

P: Krasnoufimsk area, Sargaja, old-growth *Abies*-dominated forest, on dead branch of *Acer platanoides*, 19.VIII.1969 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 47342). **Bp**: *Stepanova-Kartavenko* (1967); *Stepanova* (1971); Ekaterinburg, *Pinus*-dominated forest, on dead branch of *Sambucus sibirica*, 9.X.2008 *Almanaita* (SVER(F) 58064). **CI**: *Shiryaev & Stavishenko* (2008). **PI**: *Stepanova-Kartavenko* (1967); *Stepanova* (1971).

Hyphodontia spathulata (Schrad.) *Parmasto*

LC • HB, SB • Fhd, Fhmv, Frd

On *Abies*, *Pinus*, *Populus*.

CI: *Solovjev* (1946); *Stepanova-Kartavenko* (1967); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on decorticated *Abies*, together with *Trichaptum fuscoviolaceum*, 20.VIII.2002 *Kotiranta 19709*; *ibid.*, on decorticated aspen branch, 20.VIII.2002 *Kotiranta 19712*; *ibid.*, on decorticated aspen branch, 20.VIII.2002 *Kotiranta 19734*; Shalya area, Shigaev, mixed luxuriant forest with *Abies*, *Pinus*, *Tilia*, *Populus*, *Betula*, *Sorbus*, *Rhamnus cathartica*, on trunk of pine, 16.IX.1959 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 57023); *Shiryaev & Stavishenko* (2008). **Bp**: Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, hard fallen pine, 13.VIII.1993 *Kotiranta 10997*; *ibid.*, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine felled by *Fomitopsis pinicola*, together with *Antrodia sinuosa*, *Athelia decipiens*, *Botryobasidium* sp., 25.VIII.2002 *Kotiranta 19786*; *ibid.*, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated aspen, 27.VIII.2002 *Kotiranta 19856*. **PI**: *Mukhin et al.* (2003). **NI**: Tavda area, Oshmarka, mixed forest with *Picea*, *Pinus*, *Padus*, *Betula*, *Populus*, on fallen trunk of aspen, 10.VIII.1952 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 57016).

Hyphodontia subalutacea (P. Karst.) J. Erikss.

Syn. *Peniophora subalutacea* (P. Karst.) Höhn. & Litsch.

LC • SB, MB, NB • Blf, Fhm, Frd

On *Picea*, *Pinus* & *Populus*. Widely distributed and common.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, on decorticated aspen, 19.VIII.2002 *Kotiranta* 19686; Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea abies*, on decorticated spruce, also *Trichaptum abietinum*, *Skeletocutis amorpha*, *Fomitopsis pinicola*, 26.VIII.2002 *Kotiranta* 19815; Shiryaev & Stavishenko (2008). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

****Hyphodontiella multiseptata*** Å. Strid

LC • SB • Fhm

On *Salix*.

Cl: Nizhneserginsk area, «Oleni ruchii» Nat. Park, Bazhukovo, mesic old-growth *Abies*-dominated heath forest, on dead branch of *Salix caprea*, 10.IX.1970 coll. *Sirko*, det. *Kotiranta* (SVER(F) 50354).

****Hypochniciellum molle*** (Fr.) Hjortstam

Syn. *Amylocorticium molle* (Fr.) Pouzar, *Corticium molle* (Fr.) Fr., *Thelephora mollis* Fr.

LC • SB, MB, NB, SA • Fhm

On coniferous trees.

Cl: Shalya area, Shigaev, old-growth *Pinus*-dominated mesic forest, on fallen trunk of pine, 3.IX.1997 coll. *Shiryaev*, det. *Kotiranta* (SVER(F) 54298). **Kh:** Ivdel area, Yanygtump mt., subalpine zone, fallen conifer branch, with the parasite *Syzygospora mycophaga*, 11.VIII.1973 coll. *Stepanova*, det. *Almanaite* (SVER(F) 48333). **Is:** Severouralsk area, Bajanovka, on *Larix* timber, 1.IX.1968 *Kazantseva* (SVER(F) 46719).

Hypochnicium bombycinum (Sommerf.) J. Erikss.

Syn. *Radulum bombycinum* (Sommerf.) Nikol.

LC • FS, HB, MB • Cp, Frd

On *Alnus*, *Populus*, *Salix*.

P: Stepanova (1971). **Cl:** Mukhin & Ushakova (2001). **Bp:** Ekaterinburg, Botanical Garden of RAS, on bark of living willow, 7.VII.2007 *Stavishenko* (SVER(F) 58706); *ibid.*, on willow, 10.X.2009 *Kotiranta* – in H.K. **PI:** Stepanova (1971); Mukhin et al. (2003). **Is:** Ivdel area, Chistop mt., managed mesic *Pinus*-forest, on dead branch of aspen, 20.VIII.1959 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 50339).

****Hypochnicium eichleri*** (Bres. ex Sacc.) J. Erikss. & Ryvarden *s.lato*

LC • HB, SB, MB • Fhm, Frd

On *Populus*, *Salix*, *Sorbus*.

Bp: Sisert area, Biological station USU, managed *Pinus*-dominated mesic forest, on fallen trunk of aspen, 27.VIII.2006 *Shiryaev & Kotiranta* (SVER(F) 55469). **NI:** Irbit area, Yelan', Nitsa river valley, on fallen branch of aspen, 1.IX.1969 coll. *Kazantseva*, det. *Mukhin* (SVER(F) 48004). **Nm:** Krasnouralsk, Dachny, on dead branch of *Sorbus*, 16.VIII.1995 coll. *Bryzgalov*, det. *Stavishenko* (SVER(F) 46968). **Is:** Ivdel area, Polunochnoje, old-growth *Picea–Pinus sibirica*-dominated mesic forest, on dead fallen branch of *Salix*, 27.VIII.1959 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 47481).

Hypochnicium erikssonii Hallenb. & Hjortstam

LC • SB, MB • Frd

On *Picea*, *Sorbus*.

Cl: Shiryaev & Stavishenko (2008). **Kh:** Karpinsk area, Konzhakov Kamen mnt. range, old-growth *Picea*-dominated mesic forest, on dead branch of *Sorbus*, 17.VIII.1997 coll. *Ushakova*, det. *Stavishenko* (SVER(F) 55545).

Hypochnicium geogenium (Bres.) J. Erikss.

Syn. *Gloeocystidium inaequale* Höhn. & Litsch.

LC • HB, SB, MB • Fhm, Frd

On *Abies* & *Picea*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006); Shiryaev & Stavishenko (2008). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **NI:** Stepanova (1971). **ST:** Stepanova (1971).

Hypochnicium lundellii (Bourdot) J. Erikss.

LC • FS, HB, SB • Fhm, Frd

On *Alnus*, *Picea*, *Pinus*, *Salix*, *Tilia*. Widely spread, but not common.

P: Krasnoufimsk area, Chernaja Rechka, managed mesic deciduous forest, on trunk of linden, 15.VIII.2006 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 56588). **Cl:** Mukhin & Ushakova (2001); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on corticated willow, 19.VIII.2002 *Kotiranta 19691*. **Bp:** Nevjansk area, Tavatuy lake, old-growth *Picea*-dominated mesic forest, on dead trunk of *Alnus*, 20.VIII.1965 coll. *Sirko*, det. *Mukhin* (SVER(F) 48819). **PI:** Mukhin et al. (2003). **Ks:** Kushva area, Kedrovka mnt., managed mesic deciduous forest, on dead branch of spruce, 19.VIII.1962 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 51113). **PT:** Gari area, Zykova, on dead *Salix*, VIII.1966 coll. *Kazanseva*, det. *Parmasto* (SVER(F) 49237). **Kh:** Stepanova (1971).

Hypochnicium multiforme (Berk. & Broome) Hjortstam

Syn. *Corticium karstenii* Bres.

DD • SB, MB • Fhd, Fhm

On *Pinus*.

Bp: Nevjansk area, Tavatuy lake, old-growth *Picea*-dominated mesic heath forest, on fallen trunk of pine, 26.VIII.1972 coll. *Stepanova*, det. *Parmasto* (SVER(F) 46474). **Kh:** *Stepanova* (1971).

****Hypochnicium polonense*** (Bres.) Å. Strid

LC • SB, MB • Fhd, Frd

On *Betula* & *Sorbus*.

Cl: Nevjansk area, Tavatuy lake, dry pine forest, on fallen branch of *Sorbus*, 17.VIII.1959 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 45078). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of birch, 12.VIII.2005 *Kotiranta* 20799b.

****Hypochnicium punctulatum*** (Cooke) J. Erikss.

LC • SB • Fhd, Frd

On *Abies* & *Pinus*.

Cl: Shalya area, Shigaevo, old-growth *Abies*-dominated herb-rich forest, on fallen trunk of fir, 3.IX.2000 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 54234). **Ks:** Kushva area, Kedrovka mnt., old-growth *Picea*-dominated mesic forest, on fallen trunk of pine, 28.VIII.1968 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 47446).

Hypochnicium subrigescens Boidin

LC • HB, SB • Fhm, Frd

On *Abies*, *Pinus*, *Alnus*.

P: Bisert area, Klenovskoje, managed *Abies*-dominated forest, on partly buried branch of fir, 19.VIII.1994 coll. *Bryndina*, det. *Almanaite* (SVER(F) 55585); Krasnoufimsk area, Sarana, Ufa river valley, on dead branch of black alder, 15.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 57695). **Cl:** Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, old-growth *Abies*-dominated herb-rich forest, on fallen trunk of pine, 18.VIII.1969 coll. *Sirko*, det. *Almanaite* (SVER(F) 49749). **PI:** *Stepanova* (1971).

Hypochnicium vellereum (Ellis & Cragin) *Parmasto*

NT A3c; B2a(iii); D1 • FS, HB, SB • Frd

On *Tilia* & *Ulmus*.

P: Krasnoufimsk area, Chernaja Rechka, managed *Ulmus glabra* dominated mesic forest with *Acer*, *Populus*, *Tilia*, *Betula*, *Rhamnus*, on fallen branch of elm, 15.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 57839). **Cl:** Pervouralsk, Lysaja mnt., *Pinus*-dominated mesic herb-rich forest, on linden branch, 3.IX.1972 coll. *Stepanova*, det. *Parmasto* (SVER(F) 45325). **PI:** *Stepanova* (1971).

I

Inonotus dryophilus (Berk.) Murill

CR C2a(i); D1 • HB • Cp, Frdv

On *Quercus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus–Quercus*-dominated forest, on oak, 3.IX.1996 *Shiryayev* (SVER(F) 53061).

Inonotus hispidus (Bull.: Fr.) P. Karst.NT C2a(i) • FS, HB, SB • Cp, FrdvOn *Acer*, *Crataegus*, *Fraxinus*, *Malus*.

P: Krasnoufimsk area, Sargaja, old-growth *Pinus*-dominated herb-rich forest, on erect corticated maple, 22.VIII.1973 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 47357). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Ekaterinburg, Botanical Garden RAS, on *Fraxinus*, 12.X.2008 *Almanaite* (SVER(F) 56451); *ibid.*, Zvilling str., on *Crataegus*, 20.X.2009 *Shiryayev* (SVER(F) 56729).

Inonotus obliquus (Ach. ex Pers.) PilátLC • FS, HB, SB, MB, NB, SA, AL • Cp, Fhm, FrdMostly on *Betula*, less common on *Alnus* or *Sorbus*. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **KK:** Stepanova (1971). **CI:** Demidova (1963); Stepanova (1971); Kotiranta et al. (2007). **Bp:** Demidova (1963); Mukhin & Ushakova (2001); Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova (1971); Mukhin (1993). **Ks:** Stepanova (1971). **Nm:** Stepanova (1971). **ST:** Stepanova (1971). **PT:** Stepanova (1971). **Kh:** Stepanova (1971); Stavishenko (2003). **Is:** Stepanova (1971). **OU:** Stepanova (1971).

Inonotus radiatus (Sowerby) P. Karst.

LC • FS, HB, SB, MB, NB • Frd, Frm, Slr

Mostly on *Alnus*, less common on *Caragana*, *Corylus*, *Betula*, *Padus*, *Salix*, *Sorbus*. Widely spread and common.

P: Stepanova (1971). **CI:** Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on dead small birch, 26.VIII.2002 *Kotiranta 19805*; Kotiranta et al. (2007). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks:**

Stepanova (1971). **Nm**: Stepanova (1971). **ST**: Stepanova (1971). **PT**: Stepanova (1971). **Kh**: Stavishenko (2003). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Stepanova (1971).

Inonotus rheades (Pers.) Bondartsev & Singer

LC • FS, HB, SB, MB, NB • Fhm, Frd

On *Populus*. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **KK**: Stepanova (1971). **Cl**: Stepanova (1971); Kotiranta et al. (2007). **Bp**: Stepanova & Mukhin (1979); Stavishenko (2006); Kotiranta et al. (2007). **PI**: Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI**: Mukhin (1993). **Nm**: Stepanova (1971). **ST**: Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Stepanova (1971).

****Inonotus ulmicola*** Corfixen

DD • HB, SB • Cp

On *Ulmus*.

P: Krasnoufimsk area, Krasnoufimsk town park, on *Ulmus*, 11.IX.1971 coll. *Sirko*, det. *Stavishenko* (SVER(F) 56666). **Bp**: Ekaterinburg, Shartash Park, under the bark of living *Ulmus*, 20.IX.2005 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 57350).

Intextomyces contiguus (P. Karst.) J. Erikss. & Ryvarden

Syn. *Hypochnicium contiguum* (P. Karst.) Parmasto

LC • FS, HB, SB, MB • Cp, Fhm

On *Alnus*, *Padus*, *Populus*, *Salix*, *Sorbus*, *Juglans*. Widely spread.

P: Krasnoufimsk area, Chernaja Rechka, on willow, 15.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57310). **Cl**: Nevjansk area, Tavatuy lake, on *Alnus*, 19.VIII.1965 coll. *Stepanova*, det. *Parmasto* (SVER(F) 45196). **Bp**: Mukhin & Ushakova (2001); Ekaterinburg, Botanical Garden RAS, on dead bark of living *Juglans mandshurica* (cult.), 20.X.2008 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 55175). **PI**: Mukhin (1993); Mukhin et al. (2003). **NI**: Mukhin (1993). **Ks**: Kushva area, Kedrovka mnt., on *Sorbus*, 17.VIII.1959 coll. *Storozheva*, det. *Parmasto* (SVER(F) 45712). **Nm**: Krasnouralsk, Dachny, on willow, 16.VIII.1995 *Bryzgalov* (SVER(F) 54050). **ST**: Verkhoturiye, Vostochny, on willow, 21.VIII.1968 *Kazantseva* (SVER(F) 46094). **Kh**: Stepanova (1971). **Is**: Stepanova (1971). **OU**: Ivdel area, Ous, on willow, 7.VIII.2007 *Shiryayev* (SVER(F) 56336).

Irpex lacteus (Fr.) Fr.

LC • FS, HB, SB, MB • Cp, Cr, Fh, Fr, RI

On *Acer*, *Alnus*, *Betula*, *Cerasus*, *Crataegus*, *Padus*, *Populus*, *Salix*, *Sorbus*, *Ulmus*. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **KK:** Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, on *Salix caprea*, 18.IX.1994 *Kotiranta 11786*; Mukhin & Ushakova (2001); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp. -dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, decorticated *Sorbus aucuparia* branch, also *Phellinus punctatus*, *Phlebia rufa*, *Antrodia pulvinascens*, 19.VIII.2002 *Kotiranta 19667*; Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on dead, corticated willow, also *Bjerkandera adusta*, *Trametes pubescens*, *Funalia trogii*, *Daedaleopsis confragosa*, *Antrodiella pallescens*, *Botryobasidium pruinautum*, *Cytidia salicina*, 26.VIII.2002 *Kotiranta 19797*; Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Demidova (1963); Tavda area, Oshmarka, mixed forest with *Picea*, *Pinus*, *Padus*, *Betula*, *Populus*, on fallen *Padus* trunk, 12.VIII.1952 coll. Stepanova, det. *Kotiranta* (SVER(F) 57019); Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks:** Naumov (1913). **Nm:** Stepanova (1971). **ST:** Stepanova (1971). **PT:** Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova (1971).

****Irpex oreophilus*** (Lindsey & Gilb.) Niemelä

Syn. *Steccherinum oreophilum* Lindsey & Gilb.

LC • **SB** • Frdv

On *Populus*.

Ks: Kushva area, Kedrovka mnt., old-growth mesic *Pinus*-dominated forest, on fallen branch of aspen. 7.IX.2004 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 56746).

Irpicodon pendulus (Fr.) Pouzar

VU A3c; B2ab(ii,iii,iv); C2a(i) • **HB**, **SB**, **MB** • **Fhd**

On *Pinus*.

Cl: Shalya area, Shigaevo, old-growth *Pinus*-dominated dry heath forest, on pine log, 3.IX.2000 *Shiryayev* (SVER(F) 50663) **PI:** *Shiryayev* (2007c). **Kh:** Stavishenko (2003).

Ischnoderma benzoinum (Wahlenb.) P. Karst.

LC • **HB**, **SB**, **MB**, **NB** • **Fhm**, **Frd**

On *Abies*, *Picea*, *Pinus*. Widely spread, but not common.

P: Stepanova-Kartavenko, 1967; Stepanova (1971). **Cl:** Stavishenko (2006); Nevjansk area, Iset station, «Chertovo Gorodische», managed *Pinus* forest, on

stump of pine, 23.X.2006 *Shiryayev* (SVER(F) 56372); Prigorod area, Baronskoye, old-growth *Picea*-dominated herb-rich forest, on fallen trunk of fir, 4.VIII.2009 *Stavishenko* 716. **Bp**: Sisert area, Biological station USU, old-growth *Pinus*-dominated mesic forest, on pine stump, 14.VIII.1999 *Ushakova* (SVER(F) 54041); Kotiranta et al. (2007). **NI**: Stepanova-Kartavenko (1967); Mukhin (1993). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, old-growth *Picea-Pinus sibirica*-dominated mesic forest, on Siberian pine trunk, 16.VIII.2005 *Kotiranta* (SVER(F) 54901). **Is**: Stepanova (1971). **OU**: Ivdel area, Ous, on spruce trunk, 7.VIII.2007 *Shiryayev* (SVER(F) 56102).

Ischnoderma resinoseum (Schrad.) P. Karst.

VU C1+2a(i) • HB, SB, MB • Fhm, Frd

On *Betula*, *Padus*, *Populus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Red Book... (2008). **Bp**: Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979). **NI**: Stepanova-Kartavenko (1967); Mukhin (1993). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971).

J

****Jaapia ochroleuca*** (Bres.) Nannf. & J. Erikss.

LC • SB, MB • Fhd, Fhm

On *Picea* & *Pinus*.

Cl: Nizhneserginsk area, 7 km S of Nizhniye Sergi town, old-growth *Abies*-dominated mesic forest, on fallen branch of spruce, 8.IX.2004 coll. *Ushakova*, det. *Kotiranta* (SVER(F) 54287). **Bp**: Nevjansk area, Tavatuy lake, on pine stump, 7.IX.1967 coll. *Stepanova*, det. *Parmasto* (SVER(F) 48866). **NI**: Irbit area, Yelan', on spruce branch, 23.VIII.1966 coll. *Sirko*, det. *Parmasto* (SVER(F) 47725). **Is**: Ivdel area, Chernaja Parma mnt., old-growth *Pinus-Picea*-dominated mesic forest with *Vaccinium myrtillus* and *Ledum palustre*, on pine trunk, 22.VIII.1961 coll. *Storozheva*, det. *Almanaite* (SVER(F) 45812) .

Junghuhnia semisupiniformis (Murr.) Ryvarden

NE • SB • Frd, Frm

On *Alnus* & *Populus*.

Cl: Shalya area, Shigaevo, managed *Pinus*-dominated mesic forest, on branch of aspen, 9.VIII.2007 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 53656). **Bp**: Kotiranta et al. (2007).

K

Kavinia alboviridis (Morgan) Gilb. & Budington

LC • HB, SB, MB, NB • Fh, Fhmv

On coniferous- and deciduous trees.

Cl: Shiryaev & Stavishenko (2008). **Bp:** Stepanova (1971). **PI:** Shiryaev (2007c). **NI:** Irbit area, Yelan', on decayed trunk of birch, 25.VIII.1966 *Kazantseva* (SVER(F) 46606). **Kh:** Severouralsk area, Kazansky Kamen mnt. range, on the base of spruce stump, 17.VIII.1947 coll. *Solovjev*, det. *Shiryaev* (SVER(F) 45006). **Is:** Ivdel area, Polunochnoje, managed *Picea–Pinus sibirica*-dominated mesic forest, on bark and mosses on living roots of Siberian pine, 19.VIII.2005 *Shiryaev* & *Kotiranta* (SVER(F) 58128).

Kavinia himantia (Schwein.: Fr.) J. Erikss.

Syn. *Hydnocristella himantia* (Schwein. : Fr.) R. H. Petersen

LC • FS, HB, SB, MB • Frd

Mostly on deciduous, very seldom on coniferous trees.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», at base of living oak, 3.IX.1996 *Shiryaev* (SVER(F) 54395). **Cl:** Stepanova (1971); Shiryaev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979). **PI:** Stepanova (1971); Mukhin et al. (2003). **Nm:** Krasnoufimsk, Dachny, on spruce stump, 15.VIII.1995 coll. *Bryzgalov*, det. *Shiryaev* (SVER(F) 52498). **ST:** Verkhoturkiye, Vostochny, on pine, 28.VIII.1963 coll. *Storozheva*, det. *Shiryaev* (SVER(F) 49967). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on Siberian pine, 23.VIII.1974 coll. *Stepanova*, det. *Shiryaev* (SVER(F) 49001). **Is** Stepanova (1971).

L

Laetiporus sulphureus (Bull.) Murrill *sensu lato*

LC • FS, HB, SB, MB, NB • Cp, Fhd, Frd

On *Larix*, *Picea*, *Populus*, *Quercus*. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on oak stump, 2.IX.1996 *Shiryaev* (SVER(F) 50037). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2000, 2006); Ekaterinburg, Botanical Garden RAS, on *Populus balsamiferum*, 22.VI.2007 *Shiryaev* (SVER(F) 53801). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971).

Ks: Krasnouralsk, Dachny, on larch, 15.VIII.1995 *Bryzgalov* (SVER(F) 52126). **Nm:** Demidova (1963). **ST:** Verkhoturys, Vostochny, on aspen, 19.VIII.1963 coll. *Storozheva*, det. *Shiryayev* (SVER(F) 47469). **PT:** Gari area, Zykhova, on spruce, 27.VIII.1966 *Kazantseva* (SVER(F) 46944). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Molebny Kamen mt. range, on larch, 16.VIII.2005 *Shiryayev* (SVER(F) 55043). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971). **VT:** Ivdel area, Mal'tja, on larch, 14.VIII.1947 *Soloujev* (SVER(F) 45099).

Laricifomes officinalis (Vill.) Kotl. & Pouzar

Syn. *Fomitopsis officinalis* (Vill.) Bondartsev & Singer

1VU A3cd; C2a(i) • SB, MB, NB • Fhdv, Fhmv, Frd

On *Larix*, *Pinus sibirica*.

NI: Demidova (1963); Mukhin (1993); Red Book... (1996); Chlebitski et al. (2003); Mukhin et al. (2005). **Ks:** Red Book... (1996); Mukhin et al. (2005). **Nm:** Red Book... (1996); Chlebitski et al. (2003). **ST:** Red Book... (1996). **PT:** Red Book... (1996); Mukhin et al. (2005). **Kh:** Stepanova (1971); Red Book... (1996); Chlebitski et al. (2003). **Is:** Stepanova (1971); Red Book... (1996); Mukhin et al. (2005). **Is:** Chlebitski et al. (2003). **OU:** Red Book... (1996). **VP:** Red Book... (1996); Chlebitski et al. (2003).

Laurilia sulcata (Burt) Pouzar

Syn. *Stereum sulcatum* Burt

LC • SB, MB, NB • Fhmv

On *Abies* & *Picea*.

CI: Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev & Stavishenko (2008); Prigorod area, Baronskoye, old-growth *Picea*-dominated mesic heath forest, on fallen trunk of spruce, 4.VIII.2009 *Stavishenko* 714. **NI:** Mukhin (1993). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Ivdel area, Ous, old-growth *Picea-Pinus sibirica*-dominated mesic forest, on spruce, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58059).

Laxitextum bicolor (Pers.) Lentz

Syn. *Stereum fuscum* (Schrad.) P. Karst.

LC • FS, HB, SB, MB • Cp, Cshi, Fhd, Frd

On *Betula*, *Salix*, *Sorbus*, very seldom on *Pinus*.

P: Stepanova (1971). **CI:** Prigorod area, Visim Nat. Res., Galashki, on willow, 18.IX.1994 *Kotiranta* 11837; Stavishenko (2006). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on fallen birch, also *Trametes pubescens*,

13.VIII.1993 *Kotiranta 11028*. **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Stavishenko (2003). **Is:** Stepanova (1971).

Lentaria afflata (Lagger) Corner

Syn. *Lentaria albovinacea* (Pilát) Corner

NT B2ab(ii,iii,iv); C2a(i) • HB, SB, MB • Fhmv

On coniferous & deciduous trees. Widely spread.

P: Shiryayev (2006a). **CI:** Shiryayev (2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Shiryayev (2006a). **PI:** Shiryayev (2006a, 2007c). **NI:** Stepanova (1971). **Ks:** Krasnouralsk, Dachny, dry managed mixed forest, on fallen aspen, 3.IX.1998 *Shiryayev 8714*. **ST:** Verkhoturys area, Vostochny, old-growth mesic forest with *Pinus*, *Picea*, *Populus*, *Salix* spp., *Alnus*, on fallen *Sorbus*, 10.IX.1999 *Shiryayev 8564*. **Is:** Shiryayev (2006a).

Lentaria byssiseda Corner

Syn. *Lentaria soluta* (P. Karst.) Pilát

LC • HB, SB, MB, NB, SA • Fhm, Frd

On fallen branches and twigs of conifers and deciduous trees, as well as on bark of living trees. Widely spread and common.

P: Stepanova (1971); Shiryayev (2006a). **KK:** Shiryayev (2006a). **CI:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Shiryayev (2004b, 2006, 2007b). **PI:** Mukhin (1993); Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Stepanova (1971). **PT:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Lentaria dendroidea (O.R. Fr.) J.H. Petersen

Syn. *Lentaria micheneri* (Berk. & M.A. Curtis) Corner, *L. patouillardii* (Bres.) Corner

LC • HB, SB, MB, NB • Fhd, Fhm

On coniferous litter, more seldom on trunks. Widely spread and common.

P: Shiryayev (2006a). **CI:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Shiryayev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2006a, 2006b). **Is:** Shiryayev (2006a). **OU:** Shiryayev (2006a).

Lentaria subcaulescens (Rebent.) Rauschert

Syn. ? *Lentaria corticola* (Quél.) Corner, *L. epichnoa* (Fr.) Corner

VU A3c; C2a(i) • HB, SB, MB • Fhm, Fhmv, Frd

On trunks of *Abies*, *Picea*, *Pinus*, very seldom on deciduous trees.

Cl: Shiryayev (2004b, 2006a); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Shiryayev (2004b, 2006a).

Lenzites betulinus (L.) Fr.

LC • FS, HB, SB, MB, NB, SA • Fhd, Fhm, Frd, Frm, Fsm, Sif, Slr

On *Betula*. Common and widely spread.

P: Stepanova (1971). **KK:** Stepanova (1971). **Cl:** Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on birch branch, 19.VIII.2002 *Kotiranta 19677*; Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on corticated birch, also *Stereum hirsutum*, 26.VIII.2002 *Kotiranta 19813*; Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Demidova (1963); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Demidova (1963); Stepanova (1971); Mukhin (1993). **Ks:** Stepanova (1971). **Nm:** Stepanova (1971). **ST:** Demidova (1963); Stepanova (1971). **PT:** Stepanova (1971). **Kh:** Stepanova (1971); Stavishenko (2003). **Is:** Stepanova (1971). **OU:** Stepanova (1971). **VP:** Ivdel area, Maltja, on birch, 17.VIII.1947 *Solovjev* (SVER(F) 46562).

Lenzites warnieri Dur. & Mont.

CR D1 • HB • Frdv

On *Ulmus*.

P: Solovjev (1946); Krasnoufimsk area, Sargaja, deciduous old-growth herb-rich forest, on elm, 30.VIII.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 51673).

Leptoporus mollis (Pers.) Quél.

Syn. *Tyromyces erubescens* (Fr.) Donk

LC • HB, SB, MB, NB • Fhmv

On *Abies*, *Picea*, *Pinus sibirica*. Widely spread.

P: Krasnoufimsk area, Chernaya Rechka, on *Abies*, 14.VIII.2006 *Shiryayev* (SVER(F) 50605). **Cl:** Prigorod area, Visim Nat. Res., Galashki, on fallen spruce, 17.IX.1994 *Kotiranta 11825*; Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Kotiranta et al. (2007). **ST:** Stepanova-Kartavenko (1967). **Kh:** Stepanova-Kartavenko (1967); Ivdel area, Molebny Kamen mt. range, old-growth *Pinus sibirica*-*Picea*-dominated mesic forest, on fallen trunk of Siberian pine, 18.VIII.2005 *Votintseva & Kotiranta* (SVER(F) 56090). **Is:** Stepanova-Kartavenko (1967).

Leptosporomyces fuscostratus (Burt) Hjortstam

Syn. «*Confertobasidium olivaceoalbum*» (Bourdot & Galzin) Jülich *sensu auct.*,

«*Scytinostromella olivaceoalba*» (Bourdot & Galzin) Ginns & M.N.L. Lefebvre *sensu auct.*

LC • SB, MB • Fhd, Fhmv

On *Picea* & *Pinus*.

Bp: Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on pine, 25.VIII.2002 *Kotiranta 19763*. **NI:** Mukhin (1993). **Kh:** Stepanova (1971); Severouralsk area, «Denezhkin Kamen» Nat. Res., old-growth *Picea–Pinus sibirica* dominated dry forest, on trunk of *Pinus sibirica*, 12.VIII.1965 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 50579).

Leptosporomyces galzinii (Bourdot) Jülich

LC • FS, HB, SB, MB, NB • Fhd, Fhm, Fhmv

On coniferous and deciduous trees and ferns. Widely spread.

Cl: Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on decorticated *Pinus*, together with *Trichaptum fuscoviolaceum*, 19.VIII.2002 *Kotiranta 19697*; Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on small corticated *Pinus*, also *Amphinema byssoides*, 26.VIII.2002 *Kotiranta 19844*; Shiryaev & Stavishenko (2008). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on corticated *Betula* branch, together with *Hyphoderma setigerum*, *Piptoporus betulinus*, 25.VIII.2002 *Kotiranta 19761*; *ibid.*, fairly old pine forest, on dead *Pteridium aquilinum*, 25.VIII.2002 *Kotiranta 19767*; *ibid.*, hard decorticated pine, 25.VIII.2002 *Kotiranta 19771*; Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on corticated pine twigs, 27.VIII.2002 *Kotiranta 19877*. **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on Siberian pine, 10.VIII.1969 coll. *Stepanova*, det. *Mukhin* (SVER(F) 49603); Mukhin (1993); Mukhin et al. (2003). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of fir, 21.VIII.1947 coll. *Stepanova*, det. *Mukhin* (SVER(F) 47450); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 12.VIII.2005 *Kotiranta 20908*.

****Leptosporomyces mutabilis*** (Bres.) Krieglst.

NE • MB • Fhm

On *Larix*.

Is: Ivdel area, Polunochnoje, managed *Pinus sibirica–Larix*-dominated mesic forest, on fallen trunk of larch, 20.VIII.2005 *Shiryaev & Kotiranta* (SVER(F) 53942).

Leptosporomyces septentrionalis (J. Erikss.) Krieglst.

LC • HB, SB, MB • Fhm, Frd

On coniferous trees.

CI: Shiryaev & Stavishenko (2008). **PI:** Stepanova (1971). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of fir, 21.VIII.1947 coll. Stepanova, det. Mukhin (SVER(F) 48288); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on decorticated spruce, 12.VIII.2005 Kotiranta 20948.

Leucogyrophana mollusca (Fr.) PouzarSyn. *Merulius molluscus* Fr.

LC • HB, SB, MB • Fhd, Fhm, Frd

On *Picea* & *Pinus*. Widely spread.

CI: Demidova (1965); Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev & Stavishenko (2008). **Bp:** Demidova (1965); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, strongly decayed pine, 13.VIII.1993 Kotiranta 11008. **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on pine, 12.VIII.1968 coll. Stepanova, det. Mukhin (SVER(F) 47958); Mukhin (1993); Mukhin et al. (2003). **Is:** Severouralsk area, «Denezhkin Kamen» Nat. Res., old-growth *Pinus sibirica*–*Picea*-dominated mesic forest, on trunk of Siberian pine, 20.VIII.1966 coll. Kazantseva, det. Stavishenko (SVER(F) 48382).

Leucogyrophana pinastri (Fr.) Ginns & WeresubSyn. *Hydnomerulius pinastri* (Fr.) Jarosch & Besl., *Serpula pinastri* (Fr.) W.B. Cooke, *Serpula sclerotiorum* (Falck) Bondartsev

LC • HB, SB, MB • Cp, Fhm, Frd

On coniferous trees. Widely spread.

P: Demidova (1963). **CI:** Demidova (1963); Shiryaev & Stavishenko (2008). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **NI:** Demidova (1963). **Is:** Ivdel area, Chernaja Parma mnt., old-growth *Picea*–*Pinus sibirica*-dominated mesic forest, on larch timber, 22.VIII.1967 coll. Sirko, det. Mukhin (SVER(F) 45913).

Leucogyrophana pulverulenta (Sowerby.) GinnsSyn. *Merulius minor* Falck, *Serpula pulverulenta* (Fr.) Bondartsev, *S. tignicola* (Harmsen) M.P. Christ.

LC • HB, SB, MB • Cp, Fhd

On coniferous trees.

Bp: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971) **PI:** Demido-

va (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **ST**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971). **Is**: Demidova (1963); Stepanova-Kartavenko (1967).

Leucogyrophana romellii Ginns

LC • FS, HB, SB, MB, NB • Cp, Fhd, Frd

On coniferous trees. Widely spread and common.

P: Krasnoufimsk area, Chernaja rechka, managed *Abies*-dominated mesic forest, on fallen fir, 15.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 56211). **Cl**: Prigorod area, Visim Nat. Res., Galashki, on fallen trunk of *Abies*, 18.IX.1994 *Kotiranta* 11798; *ibid.*, on spruce, 18.IX.1994 *Kotiranta* 11821; *Shiryayev* & *Stavishenko* (2008). **Bp**: Sisert area, Biological station USU, on pine timber, 27.VIII.2006 *Shiryayev* & *Kotiranta* (SVER(F) 56474). **PI**: Stepanova (1971). **NI**: Irbit area, Yelan', on pine trunk, 16.VIII.1965 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 46079). **Ks**: Kushva area, Kedrovka mnt., on pine, 28.VIII.1959 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 45846). **ST**: Stepanova (1971). **Kh**: Ivdel area, Molebny Kamen mnt. range, on Siberian pine, 16.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 55462). **Is**: Severouralsk area, Kumba mnt., on pine, 11.VIII.1947 coll. *Solovjev*, det. *Mukhin* (SVER(F) 45760). **OU**: Stepanova (1971).

****Leucogyrophana sororia*** (Burt) Ginns

LC • SB • Fhm, Frd

On *Abies* & *Picea*.

Cl: Nizhneserginsk area, 7 km S of Nizhniye Sergi, old-growth *Abies*-dominated mesic forest, on fallen trunk of fir, 8.IX.2004 coll. *Ushakova*, det. *Stavishenko* (SVER(F) 57580). **Bp**: Nevjansk area, Tavatuy lake, on spruce trunk, 19.VIII.1973 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 48836).

****Lindtneria trachyspora*** (Bourdot & Galzin) Pilát

Syn. *Mycolindtneria trachyspora* (Bourdot & Galzin) Rauschert

VU D2 • HB • Fhd, Frdv

On *Alnus* & *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», nemoral old-growth *Pinus*–*Quercus*-dominated herb-rich forest, brook slope, on fallen branches of oak, black alder and litter, 2.IX.1996 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 53317); *ibid.*, on black alder, 14.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 56699).

Litschauerella abietis (Bourdot & Galzin) Oberw. ex Jülich

Syn. *Peniophora abietis* (Bourdot & Galzin) Bourdot & Galzin

LC • MB • Fhd, Frd

On *Picea* & *Pinus*.

Kh: Ivdel area, Chistop mnt., managed *Picea*–*Pinus sibirica*-dominated mesic

forest, on Siberian pine, 20.VIII.1960 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 46743). **Is**: Stepanova (1971); Ivdel area, Polunochnoje, spruce-dominated forest, on fallen trunk of spruce, 14.VIII.1966 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 48124).

****Litschauerella clematitis*** (Bourdot & Galzin) J. Erikss. & Ryvarden

LC • SB, MB • Cp, Frd

On *Larix* & *Picea*.

Cl: Shalya area, Shigaev, old-growth *Abies*-dominated mesic forest, on fallen branch of *Picea*, 3.IX.2000 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 54823). **Is**: Ivdel area, Chernaja Parma mnt., old-growth *Pinus sibirica*-*Picea*-dominated dry forest, on trunk of *Larix*, 16.VIII.1966 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 45819).

****Luellia recondita*** (H.S. Jacks.) K.H. Larss. & Hjortstam

NE • SB • Fhm

On *Picea*.

Bp: Nevjansk area, Tavatuy Lake, old-growth *Picea*-*Pinus*-dominated mesic forest, on partly buried branch of spruce, 19.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 51676).

M

Macrotyphula fistulosa (Holmsk.) R.H. Petersen

Syn. *Macrotyphula contorta* (Holmsk.) Nannf. & L. Holm

LC • FS, HB, SB, MB, NB • Cp, Fhm, Frd

On fallen, partly buried twigs of deciduous trees, mostly on *Betula*. Widely spread and common.

P: Shiryayev (2006a). **KK**: Arti area, Pristan', on *Betula*, 17.VIII.2006 *Shiryayev* 5936. **Cl**: Shiryayev (2004b, 2006a, 2007); Shiryayev & Stavishenko (2008). **Bp**: Stepanova (1971); Shiryayev (2004b, 2006a, 2007b). **PI**: Mukhin et al. (2003); Shiryayev (2006a). **NI**: Shiryayev (2006a). **Ks**: Shiryayev (2006a). **Nm**: Shiryayev (2006a). **ST**: Shiryayev (2006a). **PT**: Shiryayev (2006a). **Kh**: Shiryayev (2004b, 2006a, 2006b). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2004b, 2006a). **OU**: Shiryayev (2006a).

Macrotyphula juncea (Alb. & Schwein.) Berthier

LC • FS, HB, SB, MB, NB, SA • Fhm, Frd, Frm, Me, Md, Ml, Mr, Slf, Slm

On decaying fallen leaves. Widely spread and common.

P: Shiryayev (2006a). **KK**: Shiryayev (2006a). **Cl**: Shiryayev (2004b, 2006a, 2007f);

Shiryayev & Stavishenko (2008). **Bp**: Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007b); **PI**: Mukhin et al. (2003); Shiryayev (2006a). **NI**: Shiryayev (2006a). **Ks**: Shiryayev (2006a). **Nm**: Shiryayev (2006a). **ST**: Shiryayev (2006a). **PT**: Shiryayev (2006a). **Kh**: Shiryayev (2004b, 2006a, 2006b). **Is**: Shiryayev (2004b, 2006a). **OU**: Shiryayev (2006a). **VP**: Shiryayev (2006a).

Macrotyphula rigida Berthier

NT B2ab(iii); C2a(i) • HB, SB • Fhmv, Frd

On big branches and trunks of *Alnus*, *Corylus*, *Sorbus*, *Ulmus*, once on *Pinus*.

P: Krasnoufimsk area, Sarana, old-growth mesic mixed forest with *Acer platano-ides*, *Ulmus glabra*, *Tilia*, *Corylus*, *Betula pendula*, on erect corticated hazel, 14.VIII.2006 *Shiryayev* 8625. **CI**: Shalya area, Shigaevo, old-growth mesic *Pinus*-dominated herb-rich forest, on fallen branch of *Ulmus*, 2.IX.1999 *Shiryayev* 8733. **Bp**: Shiryayev (2004b, 2006a, 2007b). **Ks**: Kushva area, W slope of Kedrovka mnt., *Sorbus–Alnus* shrub close to tree-line, on fallen *Sorbus aucuparia* branch, 10.IX.2004 *Shiryayev* 8513.

Macrotyphula tremula Berthier

NT B2ab(ii,iii,iv); C2a(i) • SB, MB, NB • Fam, Frdv

On ferns.

CI: Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Kh**: Severouralsk area, E slope of Kazansky Kamen' mnt. range, subalpine *Betula tortuosa* shrub zone, on *Athyrium* sp., 11.IX.2004 *Shiryayev* 8809; Ivdel area, Oykachahl mnt. range, mesic old-growth *Picea–Populus*-dominated herb-rich forest with rich fern carpet, on decayed petioles of *Athyrium* sp., 15.VIII.2005 *Shiryayev* 8698. **Is**: Shiryayev (2004b, 2006a).

Megalocystidium leucoxanthum (Bres.) Jülich

Syn. *Gloeocystidiellum leucoxanthum* (Bres.) Boidin

LC • FS, HB, SB, MB, NB, SA • Fhm, Frd, Frm

On *Alnus*, *Populus*, *Salix*, *Sorbus*. Widely spread and common.

P: Achit area, Korzunovka, on willow, 26.VIII.1972 *Stepanova* (SVER(F) 48739). **CI**: Mukhin & Ushakova (2001); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on decorticated aspen, 20.VIII.2002 *Kotiranta* 19739. **Bp**: Stepanova (1971). **PI**: Mukhin et al. (2003). **Ks**: Kushva area, Kedrovka mnt., on *Alnus incana*, 7.IX.2004 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57070). **Nm**: Stepanova (1971). **ST**: Stepanova (1971). **Kh**: Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead *Salix caprea*, 21.VIII.1947 *Stepanova* (SVER(F) 48857). **OU**: Ivdel area, Ous, on willow, 7.VIII.2007 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 58325).

Megalocystidium luridum (Bres.) JülichSyn. *Gloeocystidiellum luridum* (Bres.) Boidin**LC** • HB, SB, MB • Fhm, Frd

On deciduous trees.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin & Ushakova (2001). **PI:** Mukhin et al. (2003). **Kh:** Stepanova (1971).***Meruliopsis taxicola*** (Pers.: Fr.) BondartsevSyn. *Gloeoporus taxicola* (Pers.) Gilb. & Ryvarden**LC** • FS, HB, SB, MB, NB, SA • Fhd, FhmOn *Abies*, *Picea*, *Pinus*. Widely spread and common.**P:** Demidova (1963); Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, dark-conifers forest, on spruce trunk, 18.IX.1994 *Kotiranta 11779*; Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on pine stump, 13.VIII.1993 *Kotiranta 10991*; Kotiranta et al. (2007). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20929*. **Is:** Stepanova-Kartavenko (1967). **OU:** Demidova (1963).****Metulodontia nivea*** (P. Karst.) Parmasto**LC** • SB, MB, NB • Fhm, Fhmv, FrdOn *Abies*, *Picea*, *Pinus*.**Cl:** Shalya area, Sylva, on partly buried branch of fir, 21.VIII.1969 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 49378). **Ks:** Kushva area, Kedrovka mnt., mesic old-growth *Abies*-dominated forest, on dead trunk of spruce, 8.IX.2004 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 58595). **NI:** Irbit area, Yelan', managed pine forest, on fallen branch of pine, 17.VIII.1966 *Sirko* (SVER(F) 50134). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., old-growth *Pinus sibirica*-*Picea*-dominated forest, on trunk of Siberian pine, 22.VIII.1970 coll. *Stepanova*, det. *Parmasto* (SVER(F) 51153).***Mucronella bresadolae*** (Quél.) Corner**LC** • HB, SB • Fhmv, Frdv

On wood, mosses and dead fruitbodies of polypores.

P: Krasnoufimsk area, Chernaya rechka, managed deciduous forest with *Ulmus glabra*, *Tilia*, *Populus*, *Betula* spp., *Sorbus aucuparia*, fallen *Betula pendula*,

inside birch bark tube with dead fruitbodies of *Inonotus obliquus*, 14.VIII.2006 *Shiryayev 8877*. **Cl:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2006a, 2007b); Nevjansk area, W coast of Tavatuy Lake, old-growth *Picea–Juniperus communis*-dominated forest, on dead, moss-covered fruitbodies of *Gloeophyllum* sp., 9.VIII.2006 *Shiryayev 8782*. **PI:** Shiryayev (2007c). **NI:** Irbit area, Yelan', Nitsa river valley, on *Ulmus*/dead, moss-covered fruitbody of *Phellinus* sp., 20.IX.1998 *Shiryayev 8667*.

Mucronella calva (Alb. & Schwein.) Fr.

Incl. *Mucronella flava* Corner

LC • FS, HB, SB, MB, NB, SA • Fhd, Fhm, Frd

On conifers & deciduous trees. Widely spread and common.

P: Shiryayev (2004b, 2006a). **Cl:** Stepanova-Kartavenko (1967); Shiryayev (2004b, 2006a); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007, 2009b); Sisert area, Biological station USU, managed *Pinus*-dominated dry forest, on erect, partly corticated pine, 28.VI.2008 *Shiryayev 8899*. **PI:** Mukhin et al. (2003); Shiryayev (2004b, 2006a, 2007c). **NI:** Stepanova-Kartavenko (1967). **Nm:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **PT:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Stepanova-Kartavenko (1967); Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Multiclavula corynoides (Peck) R.H. Petersen

Syn. *Clavulinopsis septentrionalis* Corner

DD • SB, MB, NB, SA, AL • Ah, Cr, Fad, Fhd

On soil.

Cl: Shiryayev (2008e). **PI:** Shiryayev (2008e). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a, 2006b). **OU:** Shiryayev (2006a).

Multiclavula cf. delicata (Fr.) R.H. Petersen

Syn. *Lentaria delicata* (Fr.) Corner

LC • FS, HB, SB • Fhm, Frd, Frm

On deciduous & coniferous trees. Possibly this taxon is only an ecological form of *Lentaria afflata*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on fallen corticated branch of oak, 19.IX.1998 *Shiryayev* (SVER(F) 68770). **Cl:** Shiryayev (2004b, 2006a, 2007f). **Bp:** Shiryayev (2004b, 2006a, 2007b); Nevjansk area, S coast of Tavatuy Lake, mixed dry old-growth forest with *Picea*, *Pinus*, *Populus*, *Tilia*, *Sorbus*, *Juniperus*, on fallen branches and bark of spruce and linden, 9.VII.2006 *Shiryayev 8616*. **Ks:** Kushva area, W slope of Kedrovka mnt., old-growth *Picea*-dominated mesic forest, on fallen branches and bark of aspen, 5.IX.2004 *Shiryayev 8868*.

Multiclavula mucida (Pers.) R.H. PetersenSyn. *Lentaria mucida* (Pers.) Corner**NT** 2Ca(i) • HB, SB, MB • Fhmv, Frdv

On deciduous trees. Widely spread, but not common.

Cl: Shiryayev (2004b, 2006a). Shiryayev & Stavishenko (2008d). **Bp:** Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a). **PI:** Shiryayev (2004b, 2006a). **NI:** Shiryayev (2004b, 2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Shiryayev (2004b, 2006a).***Multicalavula vernalis*** (Schwein.) R.H. PetersenSyn. *Clavulinopsis vernalis* (Schwein.) Corner**LC** • HB, SB, MB, NB, SA, AL • Ah, Am, Fa, Fl, Fd, Fh, Fr

On soil.

Cl: Shiryayev (2004b, 2006a, 2007); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971). **PI:** Mukhin et al. (2003); Shiryayev (2004b, 2006a). **NI:** Stepanova (1971). **ST:** Shiryayev (2004b, 2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a, 2006b). **OU:** Shiryayev (2004b, 2006a).**O******Odonticum flabelliradiatum*** (J. Erikss. & Hjortstam) Zmitr.Syn. *Granulocystis flabelliradiata* (J. Erikss. & Hjortstam) Hjortstam**NE** • HB • FrdOn dead *Pseudochaete tabacina*.**P:** Krasnoufimsk area, Chernaja Rechka, managed *Betula–Populus*-dominated mesic herb-rich forest, on dead branch of *Padus* and on dead fruitbodies of *Pseudochaete tabacina*, 15.VIII.2006 coll. Shiryayev, det. *Almanaite* (SVER(F) 55829).****Odonticum romellii*** (S. Lundell) Parmasto**LC** • SB, MB • Fhd, FhdvOn *Pinus*.**Bp:** Nevjansk area, Tavatuy lake, old-growth *Picea*-dominated dry forest with *Pinus*, *Tilia*, *Populus*, *Betula*, *Juniperus*, on partly buried trunk of pine, 19.VIII.1976 Stepanova (SVER(F) 52171). **PT:** Gari area, Zykova, old-growth *Picea–Pinus*-dominated dry forest, on fallen branch of pine, 29.VIII.1970 coll. Stepanova, det. *Parmasto* (SVER(F) 50373).****Odonticum septocystidia*** (Burt) Zmitr. & SpirinSyn. *Peniophora septocystidia* Burt

DD • HB • Fhm, Fhmv

On *Tilia* & *Ulmus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus–Quercus*-dominated forest, on fallen branch of linden, 23.VIII.1976 coll. *Stepanova*, det. *Almanaite* (SVER(F) 49653); Achit area, Korzunovka, old-growth heath forest with *Pinus*, *Picea*, *Populus*, *Tilia*, *Ulmus*, *Betula*, *Rhamnus*, on fallen branch of elm, 1.IX.1970 coll. *Kazanseva*, det. *Parmasto* (SVER(F) 45832).

Onnia leporina (Fr.) H. Jahn

Syn. *Inonotus leporinus* (Fr.) P. Karst.

LC • FS, HB, SB, MB, NB • Fhm, Fhmv, Frd

On *Abies* & *Picea*. Widely spread.

P: Krasnoufimsk area, Chernaja Rechka, managed *Abies*-dominated mesic forest, on fir, 15.VIII.2006 *Shiryaev* (SVER(F) 56346). **Cl:** Stavishenko (2002), Kotiranta et al. (2007). **Bp:** Kotiranta et al. (2007). **PI:** Kotiranta et al. (2007). **Ks:** Kushva area, Kedrovka mnt., old-growth *Picea*-dominated forest, on spruce, 26.VIII.1960 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 46998). **ST:** Verkhoturkiye, Vostochny, on spruce, 15.VIII.1969 *Kazantseva* (SVER(F) 47370). **Kh:** Karpinsk area, Konzhakov Kamen mnt. range, old-growth *Pinus sibirica*-dominated forest, on spruce, 7.VIII.1998 *Ushakova 212c*; Stavishenko (2003). **Is:** Ivdel area, Chernaja Parma mnt., old-growth *Pinus sibirica*-dominated forest, on dead erect spruce, 17.VIII.1966 *Stepanova* (SVER(F) 45212). **OU:** Ivdel area, Ous, old-growth *Picea–Pinus sibirica* dominated mesic forest, on spruce, 7.VIII.2007 *Shiryaev* (SVER(F) 58868).

Onnia tomentosa (Fr.) P. Karst.

Syn. *Inonotus tomentosus* (Fr.) Teng.

VU A3c, C2a(i), D1 • HB, SB, MB • Fhmv, Frdv

On buried roots of coniferous trees.

Cl: Kotiranta et al. (2007); Red Book... (2008); Prigorod area, Baronskoye, old-growth *Picea*-dominated herb-rich forest, at the base of a living spruce, 4.VIII.2009 *Stavishenko 713*. **PI:** Kotiranta et al. (2007); Red Book... (2008). **NI:** Stepanova-Kartavenko (1967); Red Book... (2008). **Nm:** Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Red Book... (2008). **Kh:** Stepanova-Kartavenko (1967); Red Book... (2008).

Onnia triquetra (Lenz) Imazeki

Syn. *Inonotus triqueter* (Lenz) P. Karst.

LC • HB, SB, MB • Fhm, Frd

On *Pinus*. Widely spread.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **Cl:** Stepanova-Kartavenko

(1967); Kotiranta et al. (2007). **Bp**: Kotiranta et al. (2007). **PI**: Tugulym area, «Pripyshminsk Bory» Nat. Park, old-growth *Pinus*-dominated mesic forest, on *Pinus*, 20.VIII.1973 *Stepanova* (SVER(F) 49781). **NI**: Stepanova-Kartavenko (1967). **Nm**: Stepanova (1971). **ST**: Stepanova (1971). **Kh**: Stepanova (1971). **Is**: Stepanova (1971); Ivdel area, Polunochnoje, managed *Pinus*-dominated mesic forest, on pine, 20.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 54569). **OU**: Stepanova-Kartavenko (1967); Stepanova (1971).

Osteina obducta (Berk.) Donk

Syn. *Scutigera osseus* (Kalchbr.) Step.-Kart.

LC • MB, NB • Fhd, Fhdv, Fhm, Fhmv, Frd

On *Larix*.

PT: Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Polunochnoje, old-growth *Larix–Pinus sibirica*-dominated mesic forest, on fallen trunk of larch, 20.VIII.2005 *Shiryayev* (SVER(F) 53448). **OU**: Ivdel area, Ous, old-growth *Picea–Larix* dominated dry forest, on trunk of larch, 7.VIII.2007 *Shiryayev* (SVER(F) 55591).

P

****Pachykytospora subtrametea*** (Pilát) Kotl. & Pouzar

Syn. *Haploporus subtrametea* (Pilát) Y. C. Dai & Niemelä

EN D1 • SB • Fhmv

On *Salix*.

Ks: Nizhniy Tagil area, Baranchinsky, S slope of Kedrovka Mnt., mesic old-growth heath forest with *Abies*, *Pinus*, *Pinus sibirica*, *Tilia*, *Sorbus*, on fallen trunk of willow, 13.VIII.1969 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 51270 – part in H.K.).

****Pachykytospora tuberculosa*** (Fr.) Kotl. & Pouzar

Syn. *Haploporus tuberculosa* (Fr.) Niemelä & Y. D. Dai

VU D1+2 • HB • Frd, Frdh

On *Quercus* & *Ulmus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus–Quercus*-dominated dry herb-rich forest, on fallen trunk of oak, 17.VIII.1960 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 48345). **Cl**: Shalya area, Shigaev, old-growth *Abies*-dominated herb-rich forest, on fallen trunk of elm, 4.IX.2000 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 54589).

****Pellidiscus pallidus*** (Berk. & Broome) Donk**DD** • HB, SB • Frdv, FrmvOn *Athyrium* & *Dryopteris*.**P:** Achit area, Korzunovka, old-growth *Abies*-dominated herb-rich forest, on *Dryopteris*, 22.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 48325). **Cl:** Nizhneserginsk area, «Oleni ruchii» Nat. Park, deciduous forest in Serga river valley, on *Athyrium*, 4.IX.2001 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 54850).***Peniophora aurantiaca*** (Bres.) Bourdot & Galzin**LC** • SB, MB, NB • Fad, Fhd, Fhm, Frd, Rg, RsMostly on *Alnus fruticosa*, very rarely on *Populus*, *Sorbus*.**Cl:** Demidova (1963). **Bp:** Demidova (1963); Shiryayev & Stavishenko (2008). **Kh:** Stepanova (1971). **Is:** Stepanova (1971).***Peniophora cinerea*** (Pers.) CookeSyn. *Peniophora obscura* (Pers.) Bres.**LC** • FS, HB, SB, MB • Cw, Fhd, Fhm, Frd, SlrOn *Alnus*, *Padus*, *Populus*, *Salix*, *Sorbus*, *Tilia*. Widely spread and common.**P:** Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on corticated aspen, together with *Datronia mollis*, *Crustomyces subabruptus*, 19.VIII.2002 *Kotiranta 19661b*; *ibid.*, on corticated aspen branches, 19.VIII.2002 *Kotiranta 19700*; Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on corticated *Padus* branch, also *Pseudochaete tabacina*, *Phlebia radiata*, *Cylindrobasidium evolvens*, 26.VIII.2002 *Kotiranta 19812*; Prigorod area, Visim Nat. Res., Galashki, mixed old-growth forest, on fallen trunk of *Tilia*, 17.IX.1994 *Kotiranta 11836*; *ibid.*, on willow branch 18.IX.1994 *Kotiranta 11839*; Mukhin & Ushakova (2001). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, on strongly human influenced grass-herb forest, on decorticated *Padus* branch, together with *Hyphoderma setigerum*, 27.VIII.2002 *Kotiranta 19865*. **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova (1971); Mukhin (1993). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967).***Peniophora erikssonii*** Boidin**LC** • FS, HB, SB, MB, NB • Cw, Fhd, Fhm, Frm, SlrOn *Alnus*.**Cl:** Mukhin & Ushakova (2001); Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on corticated *Alnus incana* branch, also *Trametes hirsuta*. 26.VIII.2002 *Kotiranta 19821*. **Bp:** Sisert area, Biological station

USU, *Pinus*-dominated, relatively poor, fairly old forest, on corticated *Alnus incana* branch, 13.VIII.1993 *Kotiranta 11012*. **PI**: Talitsa area, «Pripyshminsk Bory» Nat. Park, on *Alnus*, 21.VIII.1973 *Stepanova* (SVER(F) 47966). **Is**: Ivdel area, Polunochnoje, managed *Betula*-dominated mesic forest, on *Alnus*, 20.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 54318).

Peniophora incarnata (Pers.: Fr.) P. Karst.

LC • FS, HB, SB, MB, NB, SA • Cp, Fhm, Frd

On native and introduced deciduous trees and shrubs.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak branch, with *Tremella mesenterica*, 19.IX.1998 *Shiryayev* (SVER(F) 54944). **CI**: Pervouralsk area, Didino, managed *Picea*-dominated mesic forest, on dead branch of *Padus*, 8.IX.2003 coll. *Yalkovsky*, det. *Stavishenko* (SVER(F) 57093). **Bp**: *Stepanova & Mukhin* (1979); Ekaterinburg, Obroshensk Park, *Pinus*-dominated mixed forest with introduced trees and shrubs, like *Syringa villosa*, *Quercus*, *Caragana arborescens*, *Ulmus*, *Populus balsamiferum*, on corticated branch of *Caragana arborescens*, 30.IX.1996 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 49530). **PI**: *Mukhin et al.* (2003). **NI**: Irbit area, Zaikovo, on *Sorbus*, 29.VIII.1965 *Kazantseva* (SVER(F) 47097). **Ks**: Kachkanar, on willow, 2.IX.1960 coll. *Storozheva*, det. *Stepanova* (SVER(F) 45465). **ST**: Gari area, Zykova, on *Alnus*, 12.VIII.1967 *Kazantseva* (SVER(F) 47594). **Kh**: Ivdel area, Molebny Kamen mnt. range, on willow, 16.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 53055). **Is**: Ivdel area, Polunochnoje, on *Alnus fruticosa*, 20.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 53081). **OU**: Ivdel area, Ous, on birch branch, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 54694).

****Peniophora junipericola*** J. Erikss.

NE • SB • Fhd

On *Juniperus*.

CI: Nevjansk area, W coast of Tavatuy Lake, S from Kalinovo, mixed dry forest with *Pinus*, *Tilia*, *Juniperus*, *Sorbus*, on branch of juniper, 26.VIII.1980 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 57002 – part in H.K.).

Peniophora laurentii S. Lundell

LC • FS, HB, SB, MB, NB • Cp, Cw, Fhm, Frd

On deciduous trees.

P: Krasnoufimsk area, Sarana, on *Betula*, 1.IX.1996 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 50248). **CI**: *Shiryayev & Stavishenko* (2008). **Bp**: Sisert area, Biological station USU, managed mesic *Pinus*-dominated forest, on fallen branch of *Populus*, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 56435). **Nm**: Krasnouralsk, Dachny, on branch of aspen, 16.VIII.1995 coll. *Bryzgalov*, det. *Stavishenko* (SVER(F) 52143). **Is**: Severouralsk area, Vsevolodo-Blagodatskoje, on *Betula* branch, 16.VIII.1968 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 48721).

****Peniophora limitata*** (Chaillet ex Fr.) Cooke

LC • HB, SB • Cp

On *Fraxinus*.

P: Krasnoufimsk city park, on *Fraxinus excelsior*, 2.IX.1999 coll. *Golumbievskaya*, det. *Almanaite* (SVER(F) 53949). **Bp:** Ekaterinburg, Botanical Garden RAS, on *Fraxinus mandshurica*, 27.X.2008 *Almanaite* & *Shiryayev* (SVER(F) 55216).

Peniophora nuda (Fr.) Bress.

LC • FS, HB, SB, MB • Fhm, Frd

On deciduous trees.

P: Krasnoufimsk area, Sargaja, old-growth *Pinus*-dominated mesic forest, on dead fallen branch of hazel, 25.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 45482). **Cl:** *Stepanova* (1971); *Shiryayev* & *Stavishenko* (2008). **Bp:** *Stepanova* (1971); *Stepanova* & *Mukhin* (1979); Biological station USU, on *Alnus*, 27.VIII.2006 *Shiryayev* & *Kotiranta* (SVER(F) 57318). **ST:** *Stepanova* (1971).

Peniophora piceae (Pers.) J. Erikss.

LC • SB • Fhm

On *Abies*.

Cl: Nizhneserginsk area, S of Nizhniye Sergi town, old-growth *Abies*-dominated mesic nemoral heath forest, on *Abies* branch, 6.IX.2004 coll. *Ushakova*, det. *Kotiranta* (SVER(F) 53390); *Shiryayev* & *Stavishenko* (2008).

Peniophora pini (Schleich.: Fr.) BoidinSyn. *Stereum pini* (Schleich.) Fr.

LC • FS, HB, SB, MB, NB • Fhm, Frd

On *Pinus*. Widely spread.

P: Achit area, Korzunovka, old-growth *Abies*-dominated mesic forest, on fallen branch of pine, 19.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 49730). **Cl:** *Demidova* (1963); *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Bp:** *Demidova* (1963). **PI:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **NI:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Nm:** *Stepanova-Kartavenko* (1967). **ST:** *Stepanova* (1971). **Kh:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); Ivdel area, Molebny Kamen mnt. range, Oykachahl mnt., on pine, 16.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 50285). **Is:** *Demidova* (1963); *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **OU:** *Stepanova* (1971); Ivdel area, Ous, managed mesic *Picea* forest, on partly buried branch of pine, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57336).

Peniophora pithya (Pers.) J. Erikss.

LC • HB, SB, MB, NB • Fhm

On *Picea*. Widely spread and common.

P: Stepanova (1971). **CI:** Shiryaev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Ks:** Kachkanar, on *Picea*, 20.VIII.1960 coll. *Storozheva*, det. *Parmasto* (SVER(F) 47713). **Nm:** Krasnouralsk, on spruce branch, 15.VIII.1995 coll. *Bryzgalov*, det. *Kotiranta* (SVER(F) 52405). **ST:** Verkhoturkiye, Vostochny, on *Picea*, 18.VIII.1968 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 46840). **PT:** Gari area, Zykova, on spruce, 20.VIII.1966 coll. *Sirko*, det. *Mukhin* (SVER(F) 47497). **Kh:** Stepanova (1971). **Is:** Ivdel area, Chernaja Parma, on *Picea*, 14.VIII.1947 coll. *Solovjev*, det. *Stepanova* (SVER(F) 45000). **OU:** Ivdel area, Ous, on *Picea*, 7.VIII.2007 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 57985).

Peniophora polygonia (Pers.) Bourdot & Galzin

Syn. *Aleurodiscus polygonius* (Pers.) Höhn. & Litsch.

LC • FS, HB, SB, MB, NB • Fhm, Frd

On *Populus*. Widely spread.

P: Stepanova (1971). **CI:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, on managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, on corticated aspen, 19.VIII.2002 *Kotiranta 19657a*; Shiryaev & Stavishenko (2008). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979). **PI:** Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Stepanova (1971); **Is:** Ivdel area, Polunochnoje, managed mesic *Picea* forest, on fallen branch of aspen, 20.VIII.2005 *Shiryaev & Kotiranta* (SVER(F) 58215). **OU:** Ivdel area, Ous, on aspen, 7.VIII.2007 coll. *Shiryaev*, det. *Almanaite* (SVER(F) 58720).

Peniophora quercina (Pers.: Fr.) Cooke

DD • HB, SB • Cp, Fhm

On *Quercus*.

P: Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest» Nat. Park, luxuriant forest with *Pinus*, *Tilia*, *Quercus*, *Sorbus*, *Rhamnus*, *Corylus*, *Euonymus*, on fallen branch of oak, 9.IX.1996 coll. *Shiryaev*, det. *Kotiranta* (SVER(F) 57006 – part in H.K.). **Bp:** Sisert area, Biological station USU, yard with cultivated *Quercus* etc., on corticated oak branch, together with *Sistotrema oblongisporum*, *Stereum hirsutum*, 25.VIII.2002 *Kotiranta 19789*.

Peniophora rufa (Pers.) Boidin

Syn. *Stereum rufum* (Fr.) Fr.

LC • FS, HB, SB, MB • Fhm

On *Populus*.

P: Stepanova (1971). **CI:** Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, on managed *Betula* spp.-dominated mesic heath forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on corticated aspen,

19.VIII.2002 *Kotiranta 19657b*. **Bp**: Stepanova (1971); Stavishenko (2000, 2006). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971). **ST**: Stepanova-Kartavenko (1967); Stepanova (1971).

Peniophora rufomarginata (Pers.) Litsch.

LC • SB, MB • Frd

On *Tilia*.

Bp: Stepanova & Mukhin (1979); Nevjansk area, S coast of Tavatuy Lake, old-growth luxuriant forest with *Pinus*, *Picea*, *Populus*, *Tilia*, *Sorbus aucuparia*, *Juniperus communis*, on fallen linden branch, 21.X.2008 coll. *Almanaite*, det. *Stavishenko* (SVER(F) 55796). **NI**: Mukhin (1993). **ST**: Stepanova (1971).

Peniophora septentrionalis Laurila

LC • SB, MB • Fhm

On *Picea*.

NI: Mukhin (1993). **Kh**: Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mesic old-growth heath forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead spruce, 20.VIII.1947 *Stepanova* (SVER(F) 47577). **Is**: Ivdel area, Polunochnoje, mesic old-growth *Picea*-dominated forest, on spruce, 20.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 56166). **OU**: Ivdel area, Ous, on spruce, 10.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57574).

Peniophora versicolor (Bres.) Sacc. & P. Syd.

NE • SB • Cp

On *Lonicera* sp. (cult.) in Ekaterinburg Botanical Garden RAS, not found in nature.

Bp: Yurchenko (2010).

****Peniophora violaceolivida*** (Sommerf.) Masee

LC • SB • Frd

On *Populus & Salix*.

CI: Shalya area, Sylva, old-growth *Abies*-dominated mesic herb-rich forest, on trunk of aspen, 9.VIII.1968 coll. *Stepanova*, det. *Parmasto* (SVER(F) 49713). **Bp**: Nevjansk area, Tavatuy lake, old-growth *Picea*-dominated mesic forest, on dead partly buried branch of willow, 29.VIII.1969 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 50654).

Peniophorella guttulifera (P. Karst.) K.H. Larss.

Syn. *Hyphoderma guttuliferum* (P. Karst.) Donk

NE • HB, SB • Frd

On *Alnus*, *Betula*, *Populus*.

Cl: Krasnoufimsk area, Sargaja, Ufa river valley, on fallen branch of *Alnus glutinosa*, 14.VIII.1975 coll. *Stepanova*, det. *Almanaite* (SVER(F) 47529). **Bp:** Demidova (1963); Sisert area, Biological station USU, managed *Betula*-dominated mesic herb-rich forest, on dead branch of birch, 29.VIII.2004 coll. *Shiryaev*, det. *Kotiranta* (SVER(F) 55833). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, on *Populus*, 20.VIII.1965 coll. *Sirko*, det. *Mukhin* (SVER(F) 49499).

Peniophorella pallida (Bres.) K.H. Larss.

Syn. *Hyphoderma pallidum* (Bres.) Donk

LC • FS, HB, SB, MB, NB • Fhd, Fhm, Frd

On conifers & deciduous trees. Widely spread, but not common.

P: Krasnoufimsk area, Sargaja, on pine, 9.VIII.1968 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 47733). **Cl:** Shiryaev & Stavishenko (2008). **Bp:** Stepanova (1971). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. park, on birch trunk, 18.VIII.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 48501). **Kh:** Severouralsk area, Kazansky Kamen mnt. range, on spruce, 19.VIII.1946 coll. *Solovjev*, det. *Stepanova* (SVER(F) 45023). **Is:** Ivdel area, Chernaja Parma, old-growth *Picea–Pinus sibirica*-dominated mesic forest, on *Alnus* branch, 20.VIII.1959 coll. *Storozheva*, det. *Kotiranta* (SVER(F) 45730). **OU:** Ivdel area, Ous, old-growth *Picea*-dominated mesic forest, on *Betula*, 10.VIII.2006 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 57087).

Peniophorella praetermissa (P. Karst.) K.H. Larss.

Syn. *Corticium pertenu* P. Karst., *Hyphoderma praetermissum* (P. Karst.) J. Erikss. & Å. Strid.

LC • FS, HB, SB, MB, NB, SA, AL • Ah, Cp, Cw, Fad, Fhd, Fhdv, Fhm, Fhmv, Frd, Fsm

On coniferous and deciduous trees. Widely spread and common.

P: Achit area, Korzunovka, on *Abies*, 22.VIII.1960 *Stepanova* (SVER(F) 49590). **KK:** Arti area, Pristan', on *Tilia*, 19.IX.2001 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 56463). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on small decorticated aspen, 19.VIII.2002 *Kotiranta 19658*; *ibid.*, on decorticated pine branch, 19.VIII.2002 *Kotiranta 19676*; *ibid.*, on decorticated pine, 19.VIII.2002 *Kotiranta 19689a*; Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on partly decorticated fir, 26.VIII.2002 *Kotiranta 19831b*; Stavishenko & Shiryaev (2008). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine branch, 25.VIII.2002 *Kotiranta 19762*; *ibid.*, on decorticated pine branch, 25.VIII.2002 *Kotiranta 19772*; *ibid.*, on small decorticated pine, together with *Trichaptum fuscoviolaceum*, *Fibricium rude*, *Tomentella* sp., 25.VIII.2002

Kotiranta 19778; *ibid.*, on decorticated pine, also *Botrybasidium vagum*, 25.VIII.2002 *Kotiranta 19783*; *ibid.*, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine, together with *Tubulicrinopsis ellipospora*, *Antrodia sinuosa*, *Fomitopsis pinicola*, *Gloeophyllum abietinum*, 27.VIII.2002 *Kotiranta 19851*; *ibid.*, on strongly human influenced grass-herb forest, on decorticated *Padus* branch, together with *Hyphodontia rimosissima*, 27.VIII.2002 *Kotiranta 19868*; *ibid.*, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on decorticated pine twigs, 27.VIII.2002 *Kotiranta 19889*. **PI**: Mukhin (1993); Mukhin et al. (2003). **Ks**: Kushva area, Kedrovka mnt., on *Alnus*, 28.VIII.1960 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 49219). **ST**: Verkhoturkiye, Vostochny, on spruce, 17.VIII.1967 coll. *Sirko*, det. *Stepanova* (SVER(F) 48090). **Kh**: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta 20928*; *ibid.*, on dead branch of fir, 12.VIII.2005 *Kotiranta 20942*; *ibid.*, on dead spruce, 13.VIII.2005 *Kotiranta 20956*; *ibid.*, southern slope of Oykachakhl mnt. (1000 m a.s.l.), mnt. tundra, on twigs and branches of *Juniperus sibirica*, 13.VIII.2005 *Kotiranta 20896*, *20897*, *29899*, *20901*, *20902*, *20906*, *20907*. **OU**: Ivdel area, Ous, on *Larix*, 10.VIII.2006 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 57454).

Peniophorella pubera (Fr.) P. Karst.

Syn. *Hyphoderma puberum* (Fr.) Wallr.

LC • **SB** • Fhd, Frm, Frd, Frm

On deciduous & coniferous trees.

CI: Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, on *Sorbus*, 10.IX.2001 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 56693); Mukhin & Ushakova (2001). **Bp**: Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on fallen pine, also *Postia leucomallella*, 13.VIII.1993 *Kotiranta 11010*; *ibid.*, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on partly corticated pine, also *Ceraceomyces serpens*, 27.VIII.2002 *Kotiranta 19875*. **NI**: Stepanova (1971).

Perenniporia fraxinea (Bull.) Ryvardeen

Syn. *Fomitopsis cytisina* (Berk.) Bondartsev & Singer

NT C1+2a(i) • **HB, SB** • Fhd, Frd

On deciduous trees, like *Quercus* & *Ulmus*.

P: Stepanova-Kartavenko (1967); *Kotiranta et al.* (2007). **CI**: Stepanova-Kartavenko (1967); *Kotiranta et al.* (2007); Shalya area, Shigaev, old-growth *Abies*-dominated mesic forest, on elm, 7.IX.2000 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 57200). **Bp**: Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on deciduous tree, 13.VIII.1993 *Kotiranta 11031*.

Perenniporia medulla-panis (Jacq.) DonkSyn. *Fomitopsis unita* (Pers.) Bondartsev**DD** • HB, SB • FrdOn *Betula*, *Padus*, *Populus*, *Quercus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus–Quercus*-dominated mesic forest, on oak, 3.IX.1996 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 55911). **Cl:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Sisert area, Biological station USU, managed *Pinus*-dominated mesic herb-rich forest, on aspen, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 56716). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **NI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **Nm:** Demidova (1963).

Perenniporia subacida (Peck) DonkSyn. *Poria subacida* (Peck) Sacc.**NT A1c; C2a(i)** • HB, SB, MB • Frd, Frm, MdmOn *Abies*, *Picea*, *Pinus*.

P: Khomutinsky (1934); Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Prigorod area, Baronskoye, mesic old-growth *Picea*-dominated heath forest, on trunks of fir and spruce, 4.VIII.2009 *Stavishenko 705 & 706*. **Bp:** Khomutinsky (1934); Stepanova (1971); Stavishenko (2006); Kotiranta et al. (2007). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 12.VIII.2005 *Kotiranta 20883*; *ibid*, on corticated spruce, 12.VIII.2005 *Kotiranta 20891*. **Is:** Stepanova (1971).

Phaeolus schweinitzii (Fr.) Pat.**LC** • HB, SB, MB, NB • Fhdv, Frmv

Root-parasite of conifers. Widely spread, but not common.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Chernaya Rechka, old-growth *Pinus*-dominated dry forest, on soil/roots of pine, 15.VIII.2006 *Shiryayev* (SVER(F) 57597). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Bp:** Demidova (1963), Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Nevjansk area, Tavatuy Lake, old-growth *Picea*-dominated forest, under spruce, 5.VIII.2006 *Shiryayev* (SVER(F) 58091). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin et al (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks:** Stepanova-Kartavenko (1967); Stepanova (1971). **ST:** Demidova (1963).

Kh: Stepanova-Kartavenko (1967); Stepanova (1971); Oykachahl mnt. range, old-growth *Pinus sibirica*–*Picea*-dominated mesic forest, under Siberian pine, 16.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 53519). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Ous, old-growth *Larix*–*Pinus sibirica*-dominated dry forest, under Siberian pine, 7.VIII.2007 *Shiryayev* (SVER(F) 54553). **VP:** Stepanova-Kartavenko (1967); Stepanova (1971).

****Phanerochaete calotricha*** (P. Karst.) J. Erikss. & Ryvarden

LC • SB, MB, NB • Ah, Fad, Frd, Frm

On deciduous and coniferous trees.

Bp: Krasnoufimsk area, Sargaja, old-growth *Pinus*-dominated herb-rich forest, on *Tilia*, 21.VIII.1969 coll. *Kazantseva*, det. *Stepanova* (SVER(F) 48710). **Ks:** Kushva area, Kedrovka mnt., old-growth *Picea*-dominated mesic forest, on branch of *Populus*, 7.VIII.2004 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 51782). **ST:** Verkhoturiye, Vostochny, on *Betula*, 23.VIII.1963 coll. *Storozheva*, det. *Mukhin* (SVER(F) 46593). **Kh:** Ivdel area, Molebny Kamen mnt. range, southern slope of Oykachakhl mnt. (1000 m a.s.l.), mnt. tundra, on *Picea* twigs, 13.VIII.2005 *Kotiranta* 20892.

Phanerochaete jose-ferreirae (D.A. Reid) D.A. Reid

LC • FS, HB • Fhmv, Frdh, Frm, Frd

Mostly on deciduous trees, very seldom on conifers.

P: Achit area, Korzunovka, mesic old-growth *Abies*-dominated heath forest, on branch of linden, 23.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 46628). **Cl:** Shalya area, Sylva, old-growth *Pinus*-dominated herb-rich forest, on aspen branch, 3.IX.1969 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 55309); *Shiryayev & Stavishenko* (2008). **NI:** Irbit area, Yelan', on spruce, 19.VIII.1966 coll. *Sirko*, det. *Almanaite* (SVER(F) 48103).

Phanerochaete laevis (Pers.: Fr.) J. Erikss. & Rivarden

LC • FS, HB, SB, MB • Frm, Frd

On deciduous & coniferous trees. Widely spread.

P: Krasnoufimsk area, Sargaja, managed *Tilia*-dominated herb-rich forest, on hazel branch, 20.VIII.1975 *Stepanova* (SVER(F) 47068). **Cl:** *Shiryayev & Stavishenko* (2008). **Bp:** Sisert area, Biological station USU, on birch branch, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 55694). **PI:** *Mukhin* (1993); *Mukhin et al.* (2003). **NI:** Irbit area, Zaikovo, on *Alnus*, 8.VIII.1968 coll. *Sirko*, det. *Mukhin* (SVER(F) 46339). **ST:** Verkhoturiye, Vostochny, on willow, 26.VIII.1961 coll. *Storozheva*, det. *Almanaite* (SVER(F) 46172). **PT:** Gari area, Zykova, on *Picea*, 17.VIII.1965 coll. *Sirko*, det. *Stepanova* (SVER(F) 47107). **Kh:** Severouralsk area, Kazansky Kamen mnt. range, on *Padus*, 13.VIII.1946 coll. *Solovjev*, det. *Stepanova* (SVER(F) 45016).

Is: Ivdel area, Chernaja Parma, on spruce, 18.VIII.1949 *Stepanova* (SVER(F) 45219). **Ou:** Ivdel area, Ous, on *Alnus*, 7.VIII.2007 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 58715).

Phanerochaete magnoliae (Berk. & M.A. Curtis) Burds.

Syn. *Phanerochaete raduloides* J.Erikss. & Ryvarden, *Radulum cumulodentatum* Nikol.

LC • FS, HB, SB • Frm, Frd

On *Betula*, *Salix*.

P: Achit area, Korzunovka, on *Betula*, 18.VIII.1960 *Stepanova* (SVER(F) 47430).

Cl: *Stepanova* (1971). **Bp:** *Stepanova* (1971). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on willow, 14.VIII.1977 coll. *Stepanova*, det. *Mukhin* (SVER(F) 48017). **Nm:** Krasnouralsk, on birch, 15.VIII.1995 coll. *Bryzgalov*, det. *Kotiranta* (SVER(F) 51161).

Phanerochaete sanguinea (SW.) Pouzar

LC • HB, SB, MB, NB, SA • Fhd, Fhm, Frd

On conifers. Widely spread and common.

P: Achit area, Korzunovka, on *Abies*, 20.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 48076). **Cl:** *Shiryayev* & *Stavishenko* (2008). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, fallen pine, 13.VIII.1993 *Kotiranta 10999*. **PI:** *Mukhin* (1993); *Mukhin et al.* (2003). **NI:** *Mukhin* (1993). **Nm:** Krasnouralsk, on birch, 15.VIII.1995 coll. *Bryzgalov*, det. *Kotiranta* (SVER(F) 53442). **ST:** *Stepanova* (1971). **Kh:** *Stepanova* (1971). **Is:** Ivdel area, Polunochnoje, on Siberian pine, 20.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 55841). **Ou:** Ivdel area, Ous, on *Picea*, 10.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56854).

Phanerochaete sordida (P. Karst.) J. Erikss. & Ryvarden

LC • FS, HB, SB, MB, NB • Cw, Fhm, Frd, Frmv

Syn. *Peniophora allescheri* (Bres.) Sacc. & P. Syd., *Peniophora cremea* (Bres.) Sacc. & P. Syd.

On deciduous and coniferous trees. Widely spread and common.

P: *Demidova* (1963); *Stepanova* (1971); Krasnoufimsk area, Sargaja, on *Corylus*, 15.VIII.1967 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 47829). **KK:** *Stepanova* (1971). **Cl:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, on corticated *Sorbus aucuparia*, 19.VIII.2002 *Kotiranta 19669*; *ibid.*, on corticated *Padus*, 19.VIII.2002 *Kotiranta 19675*; Prigorod area, Visim Nat. Res., Galashki, old-growth luxuriant forest, on stump of spruce 17.IX.1994 *Kotiranta 11771*; *Shiryayev* & *Stavishenko* (2008). **Bp:** *Demidova* (1963); *Stepanova* (1971); *Stepanova* & *Mukhin* (1979). **PI:** *Stepanova*

(1971); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Nm:** Krasnouralsk, on *Padus*, also *Syzygospora pallida*, 19.VIII.1968 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 48617). **Ks:** Kushva area, Kedrovka mnt., on *Pinus*, 8.VIII.2004 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 55960). **PT:** Gari area, Zykova, 17.VIII.1965 coll. *Sirko*, det. *Mukhin* (SVER(F) 50245). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 12.VIII.2005 *Kotiranta* 20890; Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead trunk of birch, also *Syzygospora pallida*, 21.VIII.1947 *Stepanova* (SVER(F) 47581). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Ivdel area, Ous, on *Padus*, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58841).

Phanerochaete tuberculata (P. Karst.) Parmasto

LC • FS, HB, SB, MB • Cp, Cw, Fhm, Frd

On deciduous trees.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Achit area, Korzunovka, on *Tilia*, 18.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 47846). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Stepanova (1971); Ekaterinburg, Botanical Garden RAS, on branch of *Malus baccata*, 11.X.2009 *Kotiranta* (SVER(F) 57701). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks:** Kushva area, on *Populus*, 24.VIII.1961 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 47569). **Nm:** Krasnouralsk, on *Sorbus*, 15.VIII.1995 coll. *Bryzgalov*, det. *Stavishenko* (SVER(F) 57049). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Polunochnoje, on *Sorbus*, 20.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 55085).

Phanerochaete velutina (DC.) Parmasto

Syn. *Peniophora velutina* (DC.) Cooke

LC • FS, HB, SB, MB, NB, SA • Fhm, Fhmv, Frd

On *Abies*, *Alnus*, *Betula*, *Populus*, *Tilia*. Widely spread and common.

P: Krasnoufimsk area, Sarana, on *Tilia*, 27.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 45108). **Cl:** Stepanova (1971); Mukhin & Ushakova (2001); Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on birch branch, 26.VIII.2002 *Kotiranta* 19845. **Bp:** Sisert area, Biological station USU, on *Alnus*, 28.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 55057). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Nm:** Krasnouralsk, on *Betula*, 15.VIII.1995 coll. *Bryzgalov*, det. *Almanaite* (SVER(F) 50404). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Molebny Kamen mnt. range,

eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 12.VIII.2005 *Kotiranta 20937*. **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **Ou**: Ivdel area, Ous, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57854).

Phellinus alni (Bondartsev) Parmasto

LC • FS, HB, SB, MB • Frd, Frm

On *Alnus*, very seldom on *Sorbus*. Widely spread.

P: Stepanova (1971); Krasnoufimsk area, Sarana, on *Alnus*, 20.VIII.1960 *Stepanova* (SVER(F) 46207). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin & Ushakova (2001); Stavishenko (2006); Kotiranta et al. (2007). **Bp**: Nevjansk area, Tavatuy lake, on *Alnus*, 21.VIII.1965 coll. *Sirko*, det. *Stavishenko* (SVER(F) 47090). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971). **NI**: Stepanova (1971). **Nm**: Krasnouralsk, on *Alnus*, 15.VIII.1995 *Bryzgalov* (SVER(F) 50023). **ST**: Verkhoturkiye, Vostochny, on *Alnus*, 11.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 46351). **Is**: Stepanova (1971); Ivdel area, Polunochny, on *Alnus*, 20.VIII.2005 *Kotiranta* (SVER(F) 56952).

Phellinus chrysoloma (Fr.) Donk

LC • HB, SB, MB, NB, SA • Fhm, Fhmv

On *Abies* & *Picea*. Widely spread.

P: Achit area, Korzunovka, on *Picea*, 14.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 45953). **Bp**: Stavishenko (2000, 2006); Kotiranta et al. (2007). **Bp**: Nevyansk area, Tavatuy lake, on *Picea*, 21.VIII.1965 coll. *Sirko*, det. *Stavishenko* (SVER(F) 49002). **PI**: Mukhin et al. (2003); Kotiranta et al. (2007). **NI**: Mukhin (1993). **Ks**: Kushva area, Kedrovka mnt., on *Abies*, 17.VIII.1961 coll. *Storozheva*, det. *Bryzgalov* (SVER(F) 48098). **ST**: Verkhoturkiye, Vostochny, on *Picea*, 12.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 49139). **Kh**: Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20930*; *ibid.*, on decorticated spruce, 12.VIII.2005 *Kotiranta 20933*. **Is**: Stepanova (1971). **Ou**: Ivdel area, Pelym, on spruce, 25.VIII.1980 *Stepanova* (SVER(F) 58978).

Phellinus cinereus (Niemelä) M. Fisch.

LC • FS, HB, SB, MB, NB, SA • Fhm, Fhmv, Frd, Slr

On *Betula*. Widely spread and common.

P: Achit area, Korzunovka, 20.VIII.1960 coll. *Stepanova*, det. *Bryndina* (SVER(F) 47809). **PP**: Arti area, Pristan', 17.VIII.1968 coll. *Kazanseva*, det. *Stavishenko* (SVER(F) 49247). **Cl**: Revda area, Khomutovka, polluted river-side thicket with

Salix spp., *Padus*, *Picea*, on large fallen *Betula*, 26.VIII.2002 Kotiranta 19808; Stavishenko (2006); Kotiranta et al. (2007). **PI:** Mukhin et al. (2003). **NI:** Irbit area, Zaikovo, 21.IX.2000 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 55188). **Ks:** Kushva area, Kedrovka mnt., 8.IX.2004 *Shiryayev* (SVER(F) 56094). **Nm:** Krasnouralsk, 15.VIII.1995 *Bryzgalov* (SVER(F) 52375). **ST:** Verkhoturiye, Vostochny, 12.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 48584). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead erect birch, 20.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 45707). **Is:** Ivdel area, Polunochnoje, 19.VIII.2005 *Kotiranta* (SVER(F) 57302). **OU:** Ivdel area, Ous, 7.VIII.2007 *Shiryayev* (SVER(F) 58239).

Phellinus conchatus (Pers.) Quél.

NT B2ab(ii,iv) • FS, HB, SB, MB, NB • Cp, Fhmv, Frdv, Sif, Slr

Mostly on *Salix*, rarely on *Acer*, *Padus*, *Salix*, *Ulmus*, *Quercus*. Widely spread.

P: Solovjev (1946); Stepanova-Kartavenko (1967); Stepanova (1971). **KK:** Arti area, Pristan', on willow, 4.IX.1968 *Kazantseva* (SVER(F) 47218). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Prigorod area, Baronskoye, old-growth pine–aspen forest in Chusovaya river valley, on living *Salix caprea*, 4.VIII.2009 *Stavishenko* 700. **Bp:** Stepanova (1971); Nevjansk area, Tavatuy lake, on *Padus*, 8.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58441). **PI:** Tugulym area, «Pripyshminsk Bory», on *Alnus*, 19.VIII.1966 *Stepanova* (SVER(F) 49597). **NI:** Mukhin (1993). **Nm:** Krasnouralsk, on *Salix*, 15.VIII.1995 *Bryzgalov* (SVER(F) 56140). **ST:** Verkhoturiye, Vostochny, on *Padus*, 12.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 45868). **Kh:** *Stavishenko* (2003). **Is:** Severouralsk area, Kumba mnt., on *Salix*, 19.VIII.1946 coll. *Solovjev*, det. *Mukhin* (SVER(F) 45046). **OU:** Ivdel area, Ous, on *Salix*, 6.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 57833).

Phellinus contiguus (Pers.) Pat.

NT D1 • HB • Fhmv

On *Alnus*, *Ulmus*, *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 3.IX.1996 coll. *Shiryayev*, det. *Almanaita* (SVER(F) 55554). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Shalya area, Shigaevo, on elm, 5.IX.2000 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 56586); Kotiranta et al. (2007).

Phellinus ferrugineofuscus (P. Karst.) Bourdot & Galzin

Syn. *Phellinidium ferrugineofuscum* (P. Karst.) Fiasson & Niemelä

LC • FS, HB, SB, MB, NB, SA • Fhmv, Fhm, Frd

On *Abies*, *Picea*, *Pinus*. Widely spread.

P: Achit area, Korzunovka, on *Abies*, 6.IX.1968 *Kazantseva* (SVER(F) 48746). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, mesic old-growth heath forest, on trunk of *Abies*, 18.IX.1994 *Kotiranta 11819*; Kotiranta et al. (2007). **Bp:** Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Mukhin (1993). **Nm:** Krasnouralsk, Dachny, on *Picea*, 16.VIII.1995 *Bryzgalov* (SVER(F) 50138). **ST:** Verkhoturkiye, Vostochny, on *Picea*, 12.VIII.1977 *Stepanova* (SVER(F) 47112). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead spruce, 20.VIII.1947 *Stepanova* (SVER(F) 45680); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20917b*; *ibid.*, on decorticated spruce, 12.VIII.2005 *Kotiranta 20950*. **Is:** Ivdel area, Chernaja Parma, on Siberian pine, 9.VIII.1959 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 46219). **OU:** Ivdel area, Ous, on *Picea*, 6.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 56577).

Phellinus ferruginosus (Schrad.) Pat.

NT A2c; C2a(i) • HB, SB • Cp, Frdv

On *Alnus*, *Betula*, *Corylus*, *Padus*, *Quercus*, *Ulmus*, very rarely on *Picea* and *Pinus sibirica*.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 29.VIII.1968 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 51892); *ibid.*, Chernaya rechka, on *Corylus*, 15.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 58727). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Bp:** Stepanova-Kartavenko (1967); Ekaterinburg, Botanical Garden RAS, on *Quercus*, 29.X.2008 *Almanaite* (SVER(F) 58967).

Phellinus hartigii (Allesch. & Schnabl) Pat.

LC • HB, SB, MB • Fhmv, Frdv

On *Abies*, *Picea*, *Pinus*. Widely spread.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **Cl:** Solovjev (1947); Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, mesic old-growth forest, on trunk of *Abies*, 17.IX.1994 *Kotiranta 11794*; Kotiranta et al. (2007). **Bp:** Stavishenko (2000, 2006); Kotiranta et al. (2007). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks:** Kushva area, Kedrovka mnt., on *Abies*, 8.VIII.2004 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56647). **Nm:** Krasnouralsk, Dachny, on spruce, 16.VIII.1995 *Bryzgalov* (SVER(F) 50263). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Solovjov (1949); Stepanova-Kartavenko (1967); Stepanova (1971).

****Phellinus hippophaëicola*** H. Jahn

Syn. *Fomitiporia hipophaëicola* (H. Jahn) Fiasson & Niemelä

DD • **HB** • Cw, Slr

On *Hippophaë*.

Bp: Sisert area, Biological station USU, 27.VIII.2006 *Shiryayev* & *Kotiranta* (SVER(F) 55930). **PI**: Kamensk area, Potaskueva, 6.IX.1969 coll. *Sirko*, det. *Almanaite* (SVER(F) 50751).

Phellinus igniarius (L.) Quél.

LC • FS, HB, SB, MB, NB, SA • Cp, Frd, Frm, Ml, Md, Rs, Slr

Mostly on *Salix*, but very seldom on *Crataegus* & *Sorbus*. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Bp**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); Mukhin & Ushakova (2001); Kotiranta et al. (2007); Ekaterinburg, Botanical Garden RAS, on *Crataegus sanguineus* (cult.), 20.X.2008 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57329). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Kotiranta et al. (2007). **NI**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks**: Stepanova-Kartavenko (1967); Stepanova (1971). **Nm**: Stepanova-Kartavenko (1967); Stepanova (1971). **ST**: Stepanova-Kartavenko (1967); Stepanova (1971). **PT**: Stepanova-Kartavenko (1967); Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Polunochnoje, on *Salix*, 19.VIII.2005 *Kotiranta* (SVER(F) 57581). **OU**: Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Ous, on willow, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57640). **VP**: Stepanova-Kartavenko (1967); Stepanova (1971).

Phellinus laevigatus (Fr.) Bourdot & Galzin

LC • FS, HB, SB, MB, NB, SA • Fhm, Fhm, Frd

On *Betula*. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Chernaja rechka, 15.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57820). **KK**: Stepanova-Kartavenko (1967). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Shalya area, Shigaev, 3.IX.2000 *Shiryayev* (SVER(F) 54416). **Bp**: Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks**: Stepanova-Kartavenko (1967); Stepanova (1971). **Nm**: Stepanova-Kartavenko (1967); Stepanova (1971).

ST: Stepanova-Kartavenko (1967); Stepanova (1971). **PT:** Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Polunochnoje, 19.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 54945). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971). **VP:** Stepanova-Kartavenko (1967); Stepanova (1971).

Phellinus laricis (Jacz. ex Pilát) Pilát

LC • SB, MB • Fhd, Fhm

On *Larix*.

NI: Stepanova-Kartavenko (1967). **Kh:** Stepanova-Kartavenko (1967); Karpinsk area, Konzhakov Kamen mnt. range, 17.VII.1998 coll. *Ushakova*, det. *Mukhin* (SVER(F) 52773). **Is:** Ivdel area, Chernaja Parma mnt., 20.VIII.1958 coll. *Storozheva*, det. *Almanaita* (SVER(F) 47343). **OU:** Ivdel area, Ous, 7.VIII.2007 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 57619).

Phellinus lundellii Niemelä

LC • SB, MB • Fhm, Fhmv, Frd

On *Betula*, rarely on *Alnus*.

Cl: Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Kotiranta et al. (2007); Nevjansk area, Tavatuy lake, on *Betula*, 20.VIII.1969 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 47470). **Nm:** Krasnouralsk, on *Betula*, 15.VIII.1995 *Bryzgalov* (SVER(F) 49645). **ST:** Verkhoturkiye, Vostochny, on *Betula*, 9.IX.1966 coll. *Sirko*, det. *Mukhin* (SVER(F) 47726). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead *Alnus*, 21.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 45575); Stavishenko (2003). **Is:** Severouralsk area, Bajanovka, on *Betula*, 11.VIII.2005 *Mukhin* (SVER(F) 56611).

Phellinus nigricans (Fr.) P. Karst.

LC • FS, HB, SB, MB, NB, SA • Fhm, Frd

On *Betula*. Widely spread and common.

P: Krasnoufimsk area, Chernaja Rechka, 15.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 57081). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); *Shiryayev & Stavishenko* (2008). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Sisert area, Biological station USU, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 57465). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, 28.VIII.1968 coll. *Sirko*, det. *Stavishenko* (SVER(F) 49108). **NI:** *Mukhin* (1993). **Nm:** Krasnouralsk, Dachny, 16.VIII.1995 *Bryzgalov* (SVER(F) 51774). **ST:** Verkhoturkiye, Vostochny, 20.VIII.1963 coll. *Storozheva*, det. *Mukhin* (SVER(F) 47005). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967);

Stepanova (1971). **Is:** Severouralsk area, Kumba mnt., 11.VIII.1946 coll. *Solovjev*, det. *Stavishenko* (SVER(F) 45067). **Ou:** Ivdel area, Ous, 6.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 58740).

Phellinus nigrolimitatus (Romell) Bourdot & Galzin

LC • HB, SB, MB, NB • Fhm, Fhmv, Frd

Mostly on *Picea*, rarely on *Abies*, *Larix*, *Pinus*. Widely spread.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Sarana, on spruce, 14.VIII.2005 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 57961). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, mesic old-growth forest, on trunk of *Picea*, 17.IX.1994 *Kotiranta 11774*; Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Tavatuy Lake, on spruce, 8.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 58022). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova (1971). **Ks:** Kushva area, Kedrovka mnt., on *Abies*, 18.VIII.1960 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 47472). **ST:** Verkhoturkiye, Vostochny, 25.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 48245). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of fir, 21.VIII.1947 *Stepanova* (SVER(F) 46943); Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20960*. **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Polunochnoje, on *Larix*, 19.VIII.2005 *Kotiranta* (SVER(F) 55296). **Ou:** Ivdel area, Ous, on *Pinus sibirica*, 6.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 56058).

Phellinus pini (Brot.) Bondartsev & Singer

Syn. *Porodaedalea pini* (Brot.) Murrill

LC • FS, HB, SB, MB, NB • Cp, Cr, Fhd, Fhdv, Fhm, Rg, Rs, Slr

Parasite on *Pinus* and *P. sibirica*. Widely spread and common.

P: Solovjev (1946); Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Sarana, 29.VIII.1999 coll. *Golumbievskaya*, det. *Shiryayev* (SVER(F) 52520). **Cl:** Khomutinsky (1934); Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Kotiranta et al. (2007). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks:** Naumov (1915); Stepanova (1971). **Nm:** Stepanova (1971). **ST:** Stepanova (1971). **PT:** Khomutinsky (1934); Gari area, Zykova, 19.VIII.1969 *Kazantseva* (SVER(F) 48725). **Kh:** Stepanova-Kartavenko

(1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Polunochnoje, 19.VIII.2005 *Shiryayev* (SVER(F) 57508); *ibid.*, on Siberian pine, 19.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 57494). **Ou:** Stepanova (1971); Ivdel area, Ous, 6.VIII.2006 *Shiryayev* (SVER(F) 57582). **Vp:** Ivdel area, Maltja, 8.VII.1998 *Sychev* (SVER(F) 52534).

***Phellinus populicola** Niemelä

LC • FS, HB, SB, MB, NB • Fhm, Fhmv, Frd

On *Populus*. Widely spread.

P: Krasnoufimsk area, Sargaja, 5.IX.1969 coll. *Sirko*, det. *Stavishenko* (SVER(F) 48604). **Cl:** Shalya area, Shigaevo, 6.VIII.2007 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 56347). **Bp:** Sisert area, Biological station USU, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 55891). **PI:** Talitsa area, «Pripyszhminsk Bory» Nat. Park, 10.VI.2007 *Mukhin* (SVER(F) 57530). **NI:** Irbit area, Zaikovo, 20.IX.2000 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 54649). **Nm:** Krasnouralsk, 15.VIII.1995 *Bryzgalov* (SVER(F) 51926). **ST:** Verkhoturkiye, Vostochny, 13.VIII.1944 coll. *Vanin*, det. *Stavishenko* (SVER(F) 45001). **Kh:** Karpinsk area, Konzhakov Kamen mnt. range, 20.VIII.1948 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 45037). **Is:** Ivdel area, Polunochnoje, 19.VIII.2005 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 56604).

Phellinus punctatus (P. Karst.) Pilát

LC • FS, HB, SB, MB, NB • Cw, Fhd, Fhm, Frd, Frm

On *Alnus*, *Corylus*, *Padus*, *Salix*, *Sorbus*, *Populus*, *Salix*. Widely spread and common.

P: Krasnoufimsk area, Sargaja, on hazel, 6.IX.1967 *Kazantseva* (SVER(F) 48225); Stepanova (1971). **Cl:** Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, decorticated *Sorbus aucuparia* branch, together with *Phlebia rufa*, *Irpex lacteus*, *Antrodia pulvinascens*, 19.VIII.2002 *Kotiranta* 19666; *ibid.*, on living *Salix caprea*, 17.VIII.2002 *Kotiranta* 19706; Prigorod area, Visim Nat. Res., Galashki, managed forest, on branch of *Salix caprea*, 18.IX.1994 *Kotiranta* 11788; *Kotiranta et al.* (2007). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on dead willow, 13.VIII.1993 *Kotiranta* 11029; *ibid.*, on strongly human influenced grass-herb forest, on dead *Padus* branch, 27.VIII.2002 *Kotiranta* 19863; *Stavishenko* (2000, 2006); *Kotiranta et al.* (2007). **PI:** Stepanova (1971); *Mukhin* (1993); *Mukhin et al.* (2003); *Kotiranta et al.* (2007). **NI:** Stepanova (1971); *Mukhin* (1993). **Nm:** Krasnouralsk, Dachny, on *Padus*, 16.VIII.1969 coll. *Sirko*, det. *Stavishenko* (SVER(F) 48875). **ST:** Verkhoturkiye, on willow, 28.IX.1999 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 54459). **PT:** Gari area, Zykova, on *Sorbus*, 8.IX.1965 coll. *Sirko*, det. *Stavishenko* (SVER(F) 49488). **Kh:** Stepanova (1971); *Stavishenko* (2003). **Is:** Stepanova (1971); Severouralsk area, Bajanovka, on *Padus*, 9.VIII.2005 *Mukhin*

(SVER(F) 57311). **OU:** Ivdel area, Ous, on *Salix*, 6.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 57840).

Phellinus ribis (Schumach.) Quél.

Syn. *Phylloporia ribis* (Schumach.) Ryvarden

VU B2ab(iii), D1 • HB, SB, MB • Cp, Fhmv

On *Ribes* in gardens and nature.

P: Krasnoufimsk area, Sarana, garden, on *Ribes rubrum*, 29.VIII.1999 coll. *Golumbievskaya*, det. *Almanaite* (SVER(F) 54795). **CI:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, on *Ribes spicatum*, 20.VIII.1969 coll. *Kazantseva*, det. *Mukhin* (SVER(F) 51256). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Severouralsk area, Kazansky Kamen mnt. range, on *Ribes rubrum*, 10.IX.2004 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 56468).

Phellinus rimosus (Berk.) Pilát

EN C2a(i); D1 • FS, HB • Frdv

On *Quercus*.

P: Stepanova (1971); Krasnoufimsk area, close to Krasnoufimsk town, old-growth mesic herb-rich forest with *Pinus*, *Abies*, *Quercus*, *Tilia*, *Acer*, *Ulmus*, *Populus*, *Corylus*, *Euonymus*, on erect, partly decorticated oak, 9.IX.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 54668); *ibid*, Chernushka, branch of oak, 15.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 55592).

Phellinus robustus (P. Karst.) Bourdot & Galzin

CR C2a(i); D1 • HB, SB • Cp, Frdv

On *Quercus*.

P: Solovjev (1946); Stepanova-Kartavenko (1967); Krasnoufimsk area, «Nizhneirginsk oak forest», 4.IX.1996 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 53283). **CI:** Stepanova (1971); Ekaterinburg, Botanical Garden RAS, 28.X.2008 *Almanaite* (SVER(F) 58346).

Phellinus sulphurascens Pilát

LC • HB, SB, MB • Fhm, Fhmv, Frd, Frdv, Frv

On *Abies* & *Picea*.

P: Stepanova (1971); Achit area, Korzunovka, on *Abies*, 28.VIII.1960 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 48196). **CI:** Prigorod area, Visim Nat. Res., Galashki, old-growth mesic forest, on trunk of *Picea*, 18.IX.1994 *Kotiranta 11826*; *Kotiranta et al.* (2007); Prigorod area, Baronskoye, old-growth *Picea*-dominated herb-rich forest, on fallen fir and spruce, 4.VIII.2009 *Stavishenko 721 & 722*. **Bp:** Stepanova & *Mukhin* (1979); *Stavishenko* (2006). **Nm:** Krasnouralsk, Dachny, on

spruce, 3.IX.1961 coll. *Storozheva*, det. *Mukhin* (SVER(F) 48908). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is**: Stepanova (1971); Severouralsk area, Kumba mt., on fir, 9.VIII.1967 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 47422).

Phellinus torulosus (Pers.) Bourdot & Galzin

VU C2a(i); D1 • HB, SB • Cp, Fhmv, Frdv

On *Crataegus*, *Ulmus*, *Quercus*.

P: Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 10.IX.1967 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 49570); *ibid.*, Sarana, on *Ulmus*, 1.IX.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 53039). **Bp**: Ekaterinburg, Botanical Garden RAS, on *Crataegus* (cult.), 29.X.2008 *Almanaite* (SVER(F) 58363).

Phellinus tremulae (Bondartsev) Bondartsev & P.N. Borisov

LC • FS, HB, SB, MB, NB • Cp, Fhm, Frd

Mostly on *Populus*. Widely spread and common.

P: Stepanova (1971). **Cl**: Stepanova (1971); Kotiranta et al. (2007). **Bp**: Stepanova (1971); Stavishenko (2000, 2006); Kotiranta et al. (2007); Ekaterinburg, Botanical Garden RAS, on *Crataegus altaicum* (cult.), 28.X.2008 *Almanaite* (SVER(F) 56201). **PI**: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI**: Stepanova (1971); Mukhin (1993). **Ks**: Stepanova (1971); Kushva area, Kedrovka mt., 20.VIII.1961 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 56975). **Nm**: Stepanova (1971). **ST**: Stepanova (1971). **PT**: Stepanova (1971). **Kh**: Karpinsk area, Kazansky Kamen mt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on dead erect aspen, 21.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 46458); Stepanova (1971); Stavishenko (2003). **Is**: Stepanova (1971); Severouralsk area, Bajanovka, 9.VIII.2005 *Knudsen* (SVER(F) 58324). **OU**: Stepanova (1971). **VP**: Stepanova (1971).

Phellinus tuberculatus (Baumg.) Niemelä

Syn. *Phellinus pomaceus* (Pers.) Maire

LC • HB, SB • Cp, Frdv

On *Acer*, *Malus*, *Prunus*, *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 29.VIII.1968 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 47973); *ibid.*, on maple, 13.VIII.1977 *Stepanova* (SVER(F) 49260). **KK**: Krasnoufimsk area, Juva, on *Malus domestica*, 2.IX.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 54807). **Cl**: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, on elm, 5.VIII.2002 coll. *Trapeznikova*, det. *Almanaite* (SVER(F) 55683). **Bp**: Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Ekaterinburg, Botanical Garden RAS, on dead branch

of *Prunus nigra* (cult.), 29.X.2008 *Almanaite* (SVER(F) 57368). **Nm**: Stepanova (1971).

Phellinus viticola (Schwein.) Donk

Syn. *Phellinus isabellinus* (Fr.) Bourdot & Galzin

LC • HB, SB, MB • Fhdv, Fhmv

On *Abies*, *Picea*, *Pinus*. Widely spread.

P: Achit area, Korzunovka, on *Picea*, 28.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 45856). **Cl**: Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, on large decorticated pine branch, 19.VIII.2002 *Kotiranta 19690*; Prigorod area, Visim Nat. Res., Galashki, old-growth mesic forest, on fallen trunk of *Picea*, 17.IX.1994 *Kotiranta 11776*; *Kotiranta et al.* (2007). **Bp**: *Kotiranta et al.* (2007). **PI**: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); *Kotiranta et al.* (2007). **NI**: Mukhin (1993). **Ks**: Kushva area, Kerdovka mnt., on *Pinus*, 19.VIII.1961 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 47513). **ST**: Verkhoturys, Vostochny, on spruce, 2.IX.1969 coll. *Kazantseva*, det. *Mukhin* (SVER(F) 48274). **Kh**: Stepanova (1971); *Stavishenko* (2003). **Is**: Ivdel area, Polunochnoje, on *Pinus sibirica*, 19.VIII.2005 *Kotiranta* (SVER(F) 47922). **OU**: Ivdel area, Ous, on Siberian pine, 7.VIII.2007 coll. *Shiryaev*, det. *Mukhin* (SVER(F) 58819).

Phellodon confluens (Pers.) Pouzar

NT A2c+3c+4c; C2a(i) • HB, SB • Fhd, Fhdv

On soil in *Abies*-, *Picea* forests.

P: Shiryaev (2008c). **Cl**: Shiryaev & *Stavishenko* (2008); Shiryaev (2008c). **PI**: Shiryaev (2007c, 2008c).

Phellodon connatus (Schultz.: Fr.) P. Karsten

Syn. *Phellodon alboniger* (Peck) Banker, *Ph. graveolens* (Pers.) P. Karst. *Ph. melaleucus* (Sw. ex Fr.) P. Karst.

LC • HB, SB, MB • Fhdv, Fhmv

On soil in *Picea*-, *Pinus* forests.

P: Shiryaev (2008c). **KK**: Shiryaev (2008c). **Cl**: Stepanova (1971); Shiryaev & *Stavishenko* (2008). **Bp**: Stepanova (1971). **PI**: Stepanova (1971); Shiryaev (2007c, 2008c). **Is**: Severouralsk area, SW slope of Kumba mnt., dry old-growth *Picea*-*Pinus sibirica*-dominated forest, on soil, 7.IX.2004 *Shiryaev* (SVER(F) 44620).

Phellodon niger (Fr.: Fr.) P. Karst

LC • SB • Fhd, Fhm

On soil in coniferous forests.

Cl: Shiryaev & Stavishenko (2008); Shiryaev (2008c). **Bp:** Shiryaev (2008c).

Phellodon secretus Niemelä & Kinnunen

LC • MB • Fhdv

On soil in *Pinus* forests.

Is: Shiryaev (2008c). **OU:** Shiryaev (2008c).

Phellodon tomentosus (L.: Fr.) Baker

LC • HB, SB • Fhdv, Fhm

On soil in coniferous forests.

Cl: Shiryaev & Stavishenko (2008); Shiryaev (2008c). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2007c, 2008c). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2008c).

****Phlebia acerina*** Peck

NE • HB • Frdv

On *Tilia*.

P: Achit area, Korzunovka, old-growth *Abies*-dominated mesic herb-rich forest, on linden, 16.VIII.1972 coll. *Stepanova*, det. *Parmasto* (SVER(F) 51003).

Phlebia albida H. Post

Syn. *Basidioradulum tuberculatum* (Berk. & M.A. Curtis) Hjortstam

DD • FS, HB, SB • Fhm, Frd

On *Acer*, *Betula*, *Tilia*.

P: Krasnoufimsk area, Sargaja, on *Acer*, 8.IX.1968 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 49360). **Cl:** Nizhneserginsk area, «Oleni ruchii» Nat. Park, on *Tilia*, 17.VIII.1969 coll. *Sirko*, det. *Kotiranta* (SVER(F) 50646); Shiryaev & Stavishenko (2008). **Bp:** Nevjansk area, Tavatuy lake, on birch, 11.VIII.1977 *Stepanova* (SVER(F) 51293). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Nm:** Krasnouralsk, Dachny, on birch, 16.VIII.1995 coll. *Bryzgalov*, det. *Mukhin* (SVER(F) 52282).

Phlebia centrifuga P. Karst.

LC • FS, HB, SB, MB, NB • Fhm, Fhmv, Frd

On *Abies*, *Picea*, *Pinus*. Widely spread.

P: Stepanova (1971). **Cl:** Prigorod area, Visim Nat. Res., Galashki, on *Abies*, 17.IX.1994 *Kotiranta* 11822a; *ibid.*, on *Picea*, 18.IX.1994 *Kotiranta* 11827; *Stavishenko* (2006). **NI:** Mukhin (1993). **Nm:** Nizhnyaya Tura, Yelkino, on *Pinus*, 18.VIII.1995 coll. *Bryzgalov*, det. *Stavishenko* (SVER(F) 51389). **Kh:** Ivdel area,

Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20880a*; *ibid*, on decorticated spruce, 12.VIII.2005 *Kotiranta 20947*. **Is**: Severouralsk area, Bajanovka, on Siberian pine, 6.VIII.2005 *Mukhin* (SVER(F) 52952).

***Phlebia coccineofulva** Schwein.

Syn. *Corticium martianum* Berk. & M.A. Curtis

NE • **MB** • Fhmv

On *Betula*.

Kh: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed old-growth heath forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on dead birch, 12.VIII.2005 *Kotiranta 20778*.

Phlebia deflectens (P. Karst) Ryvarden

Syn. *Phanerochaete deflectens* (P. Karst.) Hjortstam, *Phlebia lilacea* M.P. Christ.

DD • **HB**, **SB** • Frd, Frm

On *Ulmus* bark and fallen *Quercus* branch in mixed forest.

P: Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on *Quercus*, 3.IX.1977 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 50730). **Cl**: Stepanova (1971).

Phlebia fuscoatra (Fr.) Nakasone

Syn. *Mycoacia fuscoatra* (Fr.) Donk

LC • **HB**, **SB**, **MB** • Fhd, Frd

On *Betula* & *Populus*.

Cl: Shiryayev & Stavishenko (2008). **Bp**: Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated birch, together with *Botryobasidium subcoronatum*, *Stereum hirsutum*, *Henningsomyces candidus*, 25.VIII.2002 *Kotiranta 19775*. **PI**: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971).

Phlebia gigantea (Fr.) Donk

Syn. *Phlebiopsis gigantea* (Fr.) Jülich

LC • **FS**, **HB**, **SB**, **MB**, **NB** • Fhd, Fhm, Fhmv, Frd

Mostly on conifers, very rarely on deciduous trees. Widely spread and common.

P: Demidova (1963); Stepanova (1971). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, old-growth dry forest, on

fallen trunk of spruce, 18.IX.1994 *Kotiranta 11778*; Mukhin & Ushakova (2001); Stavishenko (2006). **Bp**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, hard, decorticated pine, together with *Cylindrobasidium evolvens*, *Phlebiella sulphurea*, 25.VIII.2002 *Kotiranta 19749*; *ibid.*, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on corticated pine, also *Hyphoderma setigerum*, *Trichaptum fuscoviolaceum*, 27.VIII.2002 *Kotiranta 19891*. **PI**: Demidova (1963); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI**: Demidova (1963); Stepanova-Kartavenko (1967); Mukhin (1993). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of aspen, 21.VIII.1947 *Stepanova* (SVER(F) 46424). **Is**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Stepanova (1971).

Phlebia livida (Pers.) Bres.

Syn. *Cabalodontia livida* (Fr. ex Burt) Piątek, *Peniophora livida* Fr. ex Burt

LC • SB, MB • Fhm

On *Pinus*.

Cl: Stepanova (1971); Shalya area, Shigaev, 8.IX.2000 coll. *Shiryaev*, det. *Kotiranta* (SVER(F) 51947). **Kh**: Stepanova (1971). **Is**: Stepanova (1971).

****Phlebia nitidula*** (P. Karst.) Ryvarden

LC • HB, SB • Frd

On *Salix* & *Tilia*.

P: Achit area, Korzunovka, on willow, 28.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 47403). **Cl**: Prigorod area, Visim Nat. Res., Galashki, managed forest, on *Salix caprea*, 17.IX.1994 *Kotiranta 11790*. **Bp**: Nevjansk area, Tavatuy lake, on *Tilia*, 4.IX.1969 coll. *Sirko*, det. *Kotiranta* (SVER(F) 49024).

Phlebia ochraceofulva (Bourdot & Galzin) Donk

NE • HB • Fhv

On *Betula* & *Salix*.

PI: Mukhin (1993).

Phlebia radiata Fr.

LC • FS, HB, SB, MB, NB • Cp, Cw, Fhm, Frd, Slr

On *Alnus*, *Betula*, *Padus*, *Populus*, *Salix*. Widely spread and common.

P: Stepanova (1971). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on dead corticated *Padus*, also *Pseudochaete tabacina*, *Cylindrobasidium evolvens*,

Peniophora cinerea, 26.VIII.2002 *Kotiranta 19810*; Stavishenko (2006). **Bp**: Stepanova (1971); Stepanova & Mukhin (1979). **PI**: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI**: Stepanova-Kartavenko (1967); Stepanova (1971). **Nm**: Krasnouralsk, on *Alnus*, 15.VIII.1995 coll. *Bryzgalov*, det. *Stavishenko* (SVER(F) 51900). **ST**: Verkhoturys, Vostochny, on willow, 20.VIII.1963 coll. *Storozheva*, det. *Mukhin* (SVER(F) 46131). **Kh**: Karpinsk area, Konzhakov Kamen mnt. range, on *Padus*, 18.VIII.1998 coll. *Ushakova*, det. *Stavishenko* (SVER(F) 51424). **Is**: Ivdel area, Polunochnoje, on aspen, 19.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 56702). **OU**: Ivdel area, Ous, on *Betula*, 6.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 57713).

Phlebia rufa (Pers.) M.P. Christ.

Syn. *Merulius rufus* Pers., *Merulius phlebioides* Bourdot & Galzin

LC • HB, SB, MB • Fhm, Frd

On deciduous trees, seldom on conifers. Widely spread and common.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on decorticated *Sorbus aucuparia* branch, together with *Phellinus punctatus*, *Irpex lacteus*, *Antrodia pulvinascens*, 19.VIII.2002 *Kotiranta 19665*; Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on partly decorticated fir, 26.VIII.2002 *Kotiranta 19831a*. **Bp**: Stepanova & Mukhin (1979). **PI**: Mukhin (1993); Mukhin et al. (2003). **NI**: Stepanova-Kartavenko (1967); Mukhin (1993). **Ks**: Stepanova-Kartavenko (1967); Stepanova (1971); Kushva area, Kedrovka mnt., on *Alnus*, 8.VIII.2004 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 53529). **Nm**: Stepanova-Kartavenko (1967); Stepanova (1971). **ST**: Stepanova-Kartavenko (1967); Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Severouralsk area, Kazansky Kamen mnt. range, on aspen, 7.VIII.2005 *Mukhin* (SVER(F) 55605). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Ivdel area, Ous, on *Sorbus*, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56221). **VP**: Ivdel area, Malma, on willow, 9.VIII.1948 coll. *Solovjev*, det. *Mukhin* (SVER(F) 45983).

****Phlebia segregata*** (Bourdot & Galzin) Parmasto

LC • SB, MB • Fh

On *Pinus*.

Bp: Nevjansk area, Tavatuy Lake, on pine, 20.VIII.1971 coll. *Stepanova*, det. *Parmasto* (SVER(F) 48640). **Is**: Ivdel area, Chernaja Parma mnt., on pine, 9.VIII.1969 coll. *Stepanova*, det. *Parmasto* (SVER(F) 48340).

Phlebia serialis (Fr.) Donk

Syn. *Peniophora serialis* (Fr.) Höhn. & Litsch., *Phlebia flavoferruginea* (P. Karst.) Parmasto

LC • HB, SB, MB • Fh, Fhm

On coniferous trees.

P: Stepanova (1971); Achit area, Korzunovka, on *Abies*, 29.VIII.1968 coll. *Kotiranta*, det. *Kotiranta* (SVER(F) 47447). **Bp:** Demidova (1963), Stepanova-Kartavenko (1967); Stepanova (1971); Nevjansk area, Tavatuy Lake, on *Picea*, 20.VIII.1971 coll. *Stepanova*, det. *Parmasto* (SVER(F) 51136). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **NI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Stepanova (1971); Severouralsk area, Kazansky Kamen mnt. range, mesic heath forest, on *Pinus*, 7.VIII.2005 *Mukhin* (SVER(F) 56171).

Phlebia subochracea (Alb. & Schwein.) J. Erikss. & Ryvarden

Syn. *Phlebia danica* (M.P. Christ.) M.P. Christ., *Sarcodontia subochracea* (Alb. & Schwein.) Nikol.

LC • HB, SB • Frm

On *Alnus*, *Populus*.

Cl: Solovjev (1947); Stepanova (1971); Sisert area, Biological station USU, moist herb-rich forest, on *Alnus*, 1.VIII.1994 coll. *Bryndina*, det. *Mukhin* (SVER(F) 52897). **PI:** Stepanova (1971).

Phlebia subserialis (Bourdot & Galzin) Donk

NE • SB • Fhm

On *Picea*.

Cl: Shiryaev & Stavishenko (2008).

Phlebia tremellosa (Schrad.: Fr.) Burds.

Syn. *Merulius tremellosus* Schrad.

LC • FS, HB, SB, MB, NB, SA • Cp, Fhm, Frd

On deciduous trees and litter. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Chernaja Rechka, on litter under *Ulmus* and *Tilia*, 15.VIII.2006 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 56495). **KK:** Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Sisert area, Biological station USU, on fallen aspen branches, 27.VIII.2006 *Kotiranta* (SVER(F) 56529). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006). **PI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova (1971); Mukhin (1993). **ST:** Stepanova (1971). **PT:** Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Polunochnoje, on *Alnus*, 19.VIII.2005 *Shiryaev* & *Kotiranta* (SVER(F) 54822). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971);

Ivdel area, Ous, on willow, 10.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57517). **VP**: Stepanova (1971).

****Phlebia tristis*** (Litsch. & S. Lundell) Parmasto

DD • MB • Fhd

On *Pinus*.

Kh: Karpinsk area, Konzhakov Kamen mnt. range, on *Pinus*, 14.VIII.1976 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 49094). **Is**: Severouralsk area, «Denezhkin Kamen» Nat. Res., Vsevolodoblagodatskoje, on *Pinus sibirica*, 22.VIII.1969 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 48592).

****Phlebiella christiansenii*** (Parmasto) K.H. Larss. & Hjortstam

LC • FS, HB, SB, MB • Fhm, Frd

On coniferous and deciduous trees plus ferns.

P: Krasnoufimsk area, Sargaja, on *Corylus*, 19.VIII.1968 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 49236). **Bp**: Nevjansk area, Tavatuy lake, on aspen, 7.IX.1971 coll. *Stepanova*, det. *Parmasto* (SVER(F) 49377). **NI**: Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Pinus*, 18.VIII.1966 coll. *Sirko*, det. *Mukhin* (SVER(F) 48965). **Nm**: Krasnouralsk, on *Alnus*, 15.VIII.1995 coll. *Bryzgalov*, det. *Mukhin* (SVER(F) 52288). **Is**: Ivdel area, Polunochnoje, on dead and alive petioles of *Athyrium* in managed *Picea–Pinus sibirica*-dominated mesic heath forest, 19.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 54488).

****Phlebiella aff. filicina*** (Bourdot) K.H. Larss. & Hjortstam

Syn. *Aphanobasidium filicinum* (Bourdot) Jülich

NE • SB • Fhm

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp. dominated mixed forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix*, on corticated birch branch, 19.VIII.2002 *Kotiranta* 19681.

****Phlebiella romellii*** (Hjortstam) K.H. Larss. & Hjortstam

Syn. *Xenasmatella romellii* Hjortstam

LC • SB • Fhd

On *Pinus*.

Bp: Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on corticated pine, also with *Botryobasidium* sp., 13.VIII.1993 *Kotiranta* 11006.

Phlebiella sulphurea (Pers.) Ginns & M.N.L. Lefebvre

Syn. *Corticium sulphureum* Pers., *Trechispora vaga* (Fr.) Liberta, *Phlebiella sulphurea* (Fr.) Stalpers

LC • FS, HB, SB, MB, NB, SA • Fhd, Fhm, Frd

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

Cl: Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, fallen pine, 13.VIII.1993 *Kotiranta 11004*; *ibid.*, 13.VIII.1993 *Kotiranta 11015*; *ibid.*, on hard, decorticated pine branch, together with *Vesiculomyces citrinus*, 25.VIII.2002 *Kotiranta 19742*; *ibid.*, decorticated pine branch, together with *Vesiculomyces citrinus*, *Botryobasidium vagum*, *Hyphodontia rimosissima*, 25.VIII.2002 *Kotiranta 19746*; *ibid.*, on decorticated, partly charred pine, also *Botryobasidium subcoronatum*, *Hyphoderma argillaceum*, 25.VIII.2002 *Kotiranta 19763a*; *ibid.*, on decorticated pine branch, together with *Vesiculomyces citrinus*, 25.VIII.2002 *Kotiranta 19770c*; *ibid.*, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on small, partly corticated pine, also *Ceraceomyces sulphurinus*, *Resinicium pinicola*, *Postia leucomallella*, 27.VIII.2002 *Kotiranta 19897*. **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **ST:** Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 12.VIII.2005 *Kotiranta 20912*; *ibid.*, on dead fir, 12.VIII.2005 *Kotiranta 20881a*. **Is:** Stepanova (1971).

***Phlebiella tulasnelloidea** (Höhn. & Litsch.) Ginns & Lefevbre
Syn. *Xenasmatella tulasnelloidea* (Höhn. & Litsch.) Oberwinkler ex. Jül.

LC • HB • Frv

On *Abies* & *Quercus*.

P: Achit area, Korzunovka, on fir, 28.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 48865); Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 17.VIII.1968 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 47972).

Phlebiopsis ravenelii (Cooke) Hjortstam

Syn. *Phlebia roumegueri* (Bres.) Donk

NT C2a(i) • HB • Fhv

On *Tilia*, *Quercus*.

P: Achit area, Korzunovka, on *Tilia*, 28.VIII.1960 coll. *Stepanova*, det. *Almanaite* (SVER(F) 48360); Krasnoufimsk area, Sargaja, on *Quercus*, 7.IX.1968 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 49231). **PI:** Stepanova (1971).

***Phleogena faginea** (Fr.: Fr.) Link

NT B2ab(iii); C2a(i); D1 • HB, SB • Fhmv, Frdv

On *Alnus*, *Betula* & *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 19.IX.1973 coll. *Stepanova*, det. *Shiryayev* (SVER(F) 41270); *ibid.*, Chernaya Rechka, on dead stump of *Alnus glutinosa*, 14.VIII.2006 *Shiryayev* (SVER(F) 42319). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, old-growth mixed *Abies*, *Tilia*, *Betula*, *Sorbus* forest, on trunk of birch, 3.IX.2007 *Shiryayev* (SVER(F) 42536 – part in H.K.). **Bp:** Polevskoy area, valley of Zapadnaya Chusovaya river, on *Alnus*, 13.VIII.1973 *Sirko* (SVER(F) 42688).

Physalacria cryptomeriae Berthier & Rogerson

LC • **SB** • Cp

On *Cryptomeria* needles and twigs in tropical glasshouses, not found in nature.

Bp: *Shiryayev* (2006a, 2007a, 2007b, 2008f).

Physalacria orientalis (Kobayasi) Berthier

Syn. *Physalacria inflata* var. *orientalis* Kobayasi, ? *Physalacria tropica* Corner

LC • **SB** • Cp

On fallen branches and stump of *Magnolia* in tropical glasshouses, not found in nature.

Bp: *Shiryayev* (2006a, 2007a, 2007b, 2008f).

Physisporinus sanguinolentus (Alb. & Schwein.) Pilát.

Syn. *Podoporia sanguinolenta* (Alb. & Schwein.) Höhn., *Rigidoporus sanguinolentus* (Alb. & Schwein.) Donk

LC • SB, MB • Fhm, Frd

On conifers, rarely on deciduous trees.

Cl: *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Kotiranta et al.* (2007); *Achit* area, *Korzunovka*, on *Abies*, 28.VIII.1977 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 48992). **Bp:** *Demidova* (1963); *Stepanova* (1971); *Stepanova & Mukhin* (1979); *Kotiranta et al.* (2007). **Kh:** *Stavishenko* (2003). **Is:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Severouralsk* area, *Bajanovka*, on *Picea*, 7.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 55454). **Ou:** *Stepanova* (1971).

Physisporinus vitreus (Pers.) P. Karst.

Syn. *Podoporia vitrea* (Pers.) Donk

LC • SB, MB • Fhd, Fhm, Frd

On *Abies*, *Pinus*, *Betula*, *Populus*.

Cl: *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Kotiranta et al.* (2007). **Bp:** *Bondartsev* (1953); *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Kh:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Severouralsk* area, «Denezhkin Kamen» Nat. Res., on Siberian pine, 21.VIII.1966 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 48486). **Is:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971);

Ivdel area, Chernaja Parma mnt., on *Betula*, 26.VIII.1958 coll. *Storozheva*, det. *Kotiranta* (SVER(F) 47720).

Piloderma byssinum (P. Karst.) Jülich

Syn. *Corticium byssinum* (P. Karst.) Sacc.

LC • FS, HB, SB, MB • Fhd, Fhm, Frd

Mostly on deciduous trees, rarely on conifers. Widely spread.

P: Krasnoufimsk area, Chernaja Rechka, on aspen, 15.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57348). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev & Stavishenko (2008). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta* 20878; *ibid*, on corticated spruce, 12.VIII.2005 *Kotiranta* 20916; *ibid*, on decayed branch of conifer, 12.VIII.2005 *Kotiranta* 20969c; Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of birch, 21.VIII.1947 *Stepanova* (SVER(F) 47951). **OU:** Ivdel area, Ous, on *Alnus incana*, 7.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58222).

Piloderma fallax (Lib.) Stalpers

Syn. *Corticium bicolor* Peck, *Piloderma croceum* J. Erikss. & Hjortstam

LC • FS, HB, SB, MB, NB • Fhd, Fhm, Frd

On conifers, deciduous wood and litter. Widely spread.

P: Achit area, Korzunovka, on *Tilia*, 28.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 48106) **Cl:** Shiryayev & Stavishenko (2008). **Bp:** Sisert area, Biological station USU, on pine, 1.VII.1996 *Bryzgalov* (SVER(F) 52918). **PI:** Mukhin (1993). **NI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Alnus*, 2.IX.1966 coll. *Sirko*, det. *Stavishenko* (SVER(F) 48858). **Ks:** Kushva area, Kedrovka mnt., on *Abies*, 25.VIII.1962 coll. *Storozheva*, det. *Kotiranta* (SVER(F) 49252). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on Siberian pine, 20.VIII.1965 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 47376). **Is:** Stepanova (1971). **OU:** Ivdel area, Ous, on *Picea*, 10.VIII.2006 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 57870).

Piloderma reticulatum Jülich

NE • SB • Fhv

On *Alnus*-litter.

Bp: Stepanova (1971); Zmitrovich (2008).

***Piloderma sphaerosporum** Jülich

LC • HB • Fhd, Fhdv

On *Picea* and dead fruitbodies of *Fomitopsis rosea*.

P: Achit area, Korzunovka, on spruce, 14.IX.1977 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 50392). **CI:** Nizhneserginsk area, «Mikhailovsk Zavod», old-growth dry heath forest with *Abies*, *Picea*, *Tilia*, *Sorbus*, *Betula*, *Salix* on dead fruitbodies of *Fomitopsis rosea*, 29.VIII.1969 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 49580).

Piloporia sajanensis (Parmasto) Niemelä

VU A3c; B2ab(iii); C2a(i); D2 • HB, SB, MB • Fhv

On *Abies* & *Picea*.

P: Achit area, Korzunovka, on *Abies*, 7.IX.1967 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 49993). **CI:** Shiryaev & Stavishenko (2008). **Is:** Krasnoturinsk area, mixed forest with *Abies*, *Pine*, *Populus*, *Betula*, *Sorbus*, *Tilia*, on trunk of spruce, 10.IX.1969 coll. *Sirko*, det. *Mukhin* (SVER(F) 50350).

Piptoporus betulinus (Bull.) P. Karst.

LC • FS, HB, SB, MB, NB, SA • Cp, Cr, Cw, Fh, Fr, Md, Ml, Rg, Sls

On *Betula*. Widely spread and common.

P: Demidova (1963); *Stepanova* (1971); Krasnoufimsk area, Chernaja Rechka, 15.VIII.2006 *Shiryaev* (SVER(F) 56565). **KK:** Arti area, Pristan', 5.IX.1996 *Shiryaev* (SVER(F) 53905). **CI:** Demidova (1963), *Stepanova* (1971); *Kotiranta* et al. (2007). **Bp:** Demidova (1963); *Stepanova* (1971); *Stepanova* & *Mukhin* (1979); *Stavishenko* (2000, 2006); *Kotiranta* et al. (2007). **PI:** *Stepanova* (1971); *Mukhin* (1993); *Mukhin* et al. (2003). **NI:** Demidova (1963); *Mukhin* (1993). **Ks:** *Naumov* (1915); *Stepanova* (1971). **Nm:** Krasnouralsk, 15.VIII.1995 *Bryzgalov* (SVER(F) 53382). **ST:** *Stepanova* (1971); Verkhoturye, Vostochny, 20.VIII.1963 *Storozheva* (SVER(F) 46080). **PT:** Gari area, Zykova, 17.VIII.1966 *Sirko* (SVER(F) 49281). **Kh:** *Stepanova* (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen branch of birch, 21.VIII.1947 *Stepanova* (SVER(F) 45970); *Stavishenko* (2003). **Is:** Demidova (1963); *Stepanova* (1971). **OU:** Ivdel area, Ous, 10.VIII.2006 *Shiryaev* (SVER(F) 56639). **VP:** Ivdel area, Maltja, 19.VIII.1948 *Solovjev* (SVER(F) 45447).

Piptoporus quercinus (Schrad.) P. Karst.Syn. *Buglossoporus quercinus* (Schrad.: Fr.) *Kotl. & Pouzar*

RE • HB • Frv

On *Quercus*. Not recorded since 1958.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 20.IX.1946 coll. *Solovjev*, det. *Shiryaev* (SVER(F) 45312); *Stepanova* (1976).

Pistillaria paradoxa (P. Karst.) Corner

LC • HB, SB • Fh

On *Pinus* twigs.**Cl:** Shiryayev (2004b, 2006, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a). **PI:** Mukhin et al. (2003).***Plicatura crispa*** (Pers.) ReaSyn. *Plicaturopsis crispa* (Pers.) D.A. Reid

LC • HB, SB, MB, NB • Fhdb, Fhm, Rs, Sls

On *Alnus*, *Betula*, *Tilia*.**P:** Achit area, Korzunovka, on *Tilia*, 20.VIII.1968 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 48264). **Cl:** Shalya area, Shigaevo, on *Alnus*, 3.IX.2000 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 52557). **Bp:** Stavishenko (2000); Mukhin & Ushakova (2001); Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on corticated birch branch, 27.VIII.2002 *Kotiranta* 19883; Stavishenko (2006). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Is:** Severouralsk area, Bajanovka, managed dry heath forest, on *Alnus*, 8.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 57114). **Kh:** Stavishenko (2003). **OU:** Ivdel area, Ous, on *Alnus*, 7.VIII.2007 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 57359).***Plicatura nivea*** (Sommerf.) P. Karst.Syn. *Merulius niveus* Fr.

LC • HB, SB, MB, NB, SA, AL • Fhm, Frd

Mostly on *Alnus*, very seldom on *Betula* and *Salix*. Widely spread and common.**P:** Stepanova-Kartavenko (1967); Stepanova (1971); Achit area, Korzunovka, on *Salix* 19.VIII.1968 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 48342). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Nevjansk area, Tavatuy lake, on *Alnus*, 4.IX.1977 *Stepanova* (SVER(F) 50371). **Kh:** Severouralsk area, Bajanovka, on birch, 7.VIII.2005 *Mukhin & Shiryayev* (SVER(F) 57609). **Is:** Ivdel area, Polunochnoje, on *Alnus fruticosa*, 18.VIII.2005 *Kotiranta* (SVER(F) 57661). **OU:** Ivdel area, Ous, on *Alnus fruticosa*, 6.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 58050).***Polyporus alveolaris*** (DC. : Fr.) Bondarsev & Singer

NT C1+2a(i) • FS, HB, SB • Cp, Fhd, Fhm, Fsm, Sls

On *Fraxinus*, *Syringa*, *Ulmus*, *Quercus*.**P:** Krasnoufimsk area, slope to Ufa river, on elm, 17.IX.1993 coll. *Bryndina*, det. *Mukhin* (SVER(F) 53537); *ibid.*, Chernaya Rechka, on oak, 15.VIII.2006 *Shiryayev* (SVER(F) 58586). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Ekaterinburg, Botanical Garden RAS, on *Quercus mongolicum* (cult.), 29.X.2008 *Almanaite* (SVER(F) 58649); *ibid.*, on *Syringa reticulata* (cult.), 29.X.2008 *Almanaite* (SVER(F) 58670). **PI:** Stepanova (1971).

Polyporus arcularius (Batsch) Fr.Syn. *Polyporus agariceus* Berk.**LC** • FS, HB, SB, MB • Frd, Fhm, Frd, Fsm, RIOn *Acer*, *Alnus*, *Betula*, *Caragana*, *Corylus*, *Padus*, *Rhamnus*, *Sorbus*.**P:** Stepanova (1971); Krasnoufimsk area, Sargaja, on *Corylus*, 24.VIII.1968 coll. Kazantseva, det. Stavishenko (SVER(F) 50332). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006). **Bp:** Kotiranta et al. (2007). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin et al. (2003). **ST:** Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, S slope of Kos'va Kamen mnt., on *Sorbus*, 20.VIII.1996 coll. Bryzgalov, det. Stavishenko (SVER(F) 52160).***Polyporus badius*** (Pers.) Schwein.Syn. *Polyporus picipes* Rostk.**DD** • HB, SB, MB • Cp, Fhd, FrdOn *Alnus*, *Betula*, *Populus*, *Ulmus*.**P:** Stepanova (1971); Krasnoufimsk area, Sarana, on *Alnus glutinosa*, 14.VIII.2006 coll. Shiryaev, det. Kotiranta (SVER(F) 56968). **Cl:** Stepanova (1971); Nizhneserginsk area, Mikhailovsk, Serga river valley, on elm, 3.IX.1968 coll. Sirko, det. Mukhin (SVER(F) 49507). **Bp:** Stepanova & Mukhin (1979). **PI:** Mukhin et al. (2003). **NI:** Stepanova (1971); Mukhin (1993). **Kh:** Stavishenko (2003).***Polyporus brumalis*** (Pers.) Fr.Syn. *Polyporus subarcularius* (Donk) Bondartsev**LC** • FS, HB, SB, MB, NB, SA • Fhm, Frd, Fsm, RI, Sls

On deciduous trees. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Achit area, Korzunovka, on *Betula*, 28.VIII.1973 Stepanova (SVER(F) 49663). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Mukhin & Ushakova (2001); Stavishenko (2006); Kotiranta et al. (2007). **PI:** Stepanova (1971). **NI:** Stepanova-Kartavenko (1967); Mukhin (1993). **Nm:** Krasnouralsk, on *Padus*, 15.VIII.1995 Bryzgalov (SVER(F) 51537). **ST:** Verkhoturkiye, Vostochny, on *Betula*, 28.VIII.1963 coll. Storozheva, det. Mukhin (SVER(F) 48334). **Kh:** Stavishenko (2003). **OU:** Ivdel area, Ous, on *Padus*, 7.VIII.2007 coll. Shiryaev, det. Mukhin (SVER(F) 58208).***Polyporus ciliatus*** Fr.**LC** • FS, HB, SB, MB, NB • Fhm, FrdOn *Acer*, *Alnus*, *Betula*, *Corylus*, *Padus*, *Tilia*, *Ulmus*, *Quercus*. Widely spread and common.

P: Stepanova (1971); Krasnoufimsk area, Chernaja rechka, on *Tilia*, 15.VIII.2006 *Shiryayev* (SVER(F) 58060). **Cl:** Stepanova (1971); Mukhin & Ushakova (2001); Stavishenko (2006). **Bp:** Stepanova (1971); Kotiranta et al. (2007). **PI:** Stepanova (1971); Kotiranta et al. (2007). **NI:** Stepanova (1971); Irbit area, Zaikovo, on *Alnus*, 19.IX.1999 *Shiryayev* (SVER(F) 55547). **ST:** Stepanova (1971); Verkhoturkiye, on *Betula*, 24.VII.2004 *Shiryayev* (SVER(F) 56851). **Kh:** Stavishenko (2003); Severouralsk area, Kazansky Kamen mnt. range, on *Padus*, 7.VIII.2005 *Mukhin* (SVER(F) 57728). **OU:** Ivdel area, Ous, on *Padus*, 10.VIII.2006 *Shiryayev* (SVER(F) 58220).

Polyporus leptcephalus (Jacq.: Fr.) Fr.

Syn. *Polyporus varius* (Pers.) Fr.

LC • FS, HB, SB, MB, NB • Cp, Fhm, Frd

On deciduous trees. Widely spread and common.

P: Demidova (1963); Stepanova-Kartavenko, 1967; Stepanova (1971); Krasnoufimsk area, Chernaja rechka, on birch, 16.VIII.2006 *Shiryayev* (SVER(F) 57809). **Cl:** Stepanova-Kartavenko, 1967; Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on birch branch, 19.VIII.2002 *Kotiranta* 19678; Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on small corticated birch, also *Hyphoderma setigerum*, *Daedaleopsis tricolor*, *Fomes fomentarius*, 27.VIII.2002 *Kotiranta* 19886; Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Ks:** Kachkanar area, Kosja, on aspen, 3.IX.1969 *Kazantseva* (SVER(F) 47284). **Nm:** Krasnouralsk, Dachy, on *Sorbus*, 16.VIII.1995 *Bryzgalov* (SVER(F) 51647). **ST:** Stepanova (1971). **PT:** Gari area, Zykova, on *Betula*, 21.VIII.1966 coll. *Sirko*, det. *Stavishenko* (SVER(F) 48118). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Ivdel area, Ous, on aspen, 6.VIII.2006 *Shiryayev* (SVER(F) 58949).

Polyporus melanopus (Pers.) Fr.

LC • FS, HB, SB, MB, NB • Cp, Fhm, Frd

On partly buried branches of *Alnus*, *Betula*, *Populus*, *Quercus*, *Tilia*.

P: Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 16.VIII.1967 *Kazantseva* (SVER(F) 49077). **KK:** Arti area, Pristan', on *Tilia*, 6.IX.1996 *Shiryayev* (SVER(F) 52271). **Cl:** Stepanova-Kartavenko, 1967; Stepanova (1971); Kotiranta et al. (2007). **Bp:** Stepanova (1971); Sisert area, Biological station USU, on aspen, 27.VIII.2006 *Shiryayev* & *Kotiranta* (SVER(F) 56335). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin et al. (2003). **Nm:**

Stepanova (1971). **Kh**: Karpinsk area, Kos'va Kamen mnt., on birch, 9.IX.1997 *Shiryayev* (SVER(F) 53781). **Is**: Ivdel area, Polunochnoje, on aspen, 19.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 57589).

Polyporus pseudobetulinus (Murashk. ex Pilát) Thorn, Kotir. & Niemelä

Syn. *Piptoporus pseudobetulinus* (Murashk. ex Pilát) Pilát, *Royoporus pseudobetulinus* (Murashk. ex Pilát) A.B. De

VU C2a(i) • HB, SB, MB • Fhdv, Fhmv

On *Populus*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Red Book... (2008); Shalya area, Kharenki, old-growth deciduous dry heath forest with *Populus*, *Betula* spp., *Sorbus*, *Padus racemosa*, on erect dead aspen, 12.IX.2008 *Shiryayev* (SVER(F) 58199). **PI**: Mukhin (1993); Mukhin et al. (2003); Red Data... (2008). **NI**: Mukhin (1993). **Kh**: Severouralsk area, Berezovsky, old-growth mesic mixed heath forest with *Picea*, *Betula* spp., *Populus*, *Sorbus*, on erect *Populus* (3 m above ground), 3.IX.2005 *Shiryayev* (SVER(F) 55800).

****Polyporus rhizophilus*** (Pat.) Sacc.

EN B2ab(iii); C1+2b • FS • Fhd, STms

Parasite of grasses *Festuca* & *Stipa*.

PI: Talitsa area, Butka, on *Stipa* sp. 25.VIII.1985 coll. *Bukhvalova*, det. *Mukhin* (SVER(F) 52139); Kamensk-Uralsk area, Potaskueva, on *Festuca* sp. 11.IX.1999 *Shiryayev* (SVER(F) 53418).

Polyporus squamosus (Huds.) Fr.

LC • FS, HB, SB, MB, NB • Cp, Cr, Fhm, Frd, Frm, Md

On *Acer*, *Betula*, *Fraxinus*, *Populus*, *Sorbus*, *Ulmus*, *Quercus*. Widely spread, but not common.

P: Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 3.IX.1996 *Shiryayev* (SVER(F) 53028). **KK**: Arti area, Pristan', on *Ulmus*, 9.IX.1969 *Kazantseva* (SVER(F) 49098). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); *Shiryayev & Stavishenko* (2008). **Bp**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Kotiranta et al. (2007); Ekaterinburg, 8 March str., on *Acer*, 19.VII.1998 *Mukhin* (SVER(F) 50255); *ibid.*, Zvillinga str., on *Fraxinus* (cult.), 20.IX.2007 *Shiryayev* (SVER(F) 56827); *ibid.*, on *Tilia*, 2.X.2009 *Shiryayev* (SVER(F) 58326). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin et al. (2003). **NI**: Stepanova-Kartavenko (1967); Stepanova (1971). **Nm**: Krasnouralsk, on *Acer negundo* (cult.), 15.VIII.1995 *Bryzgalov* (SVER(F) 51129). **ST**: Verkhoturiye, Vostochny, on aspen, 29.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 49337). **Is**:

Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Polunochnoje, on *Betula*, 19.VIII.2005 *Shiryayev* (SVER(F) 54933).

Polyporus tubaeformis (P. Karst.) Ryvarden & Gilb.

LC • FS, HB, SB, MB, NB • Fhm, Frd

On *Alnus*, *Betula*, *Corylus*, *Populus*, *Salix*. Widely spread.

P: Krasnoufimsk area, Sargaja, on *Alnus glutinosa*, 30.VIII.1967 *Kazantseva* (SVER(F) 47232). **Cl:** Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on small birch branch, 26.VIII.2002 *Kotiranta 19847*; Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Sisert area, Biological station USU, on *Salix*, 25.VIII.2004 *Shiryayev* (SVER(F) 53290). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Betula*, 3.IX.1967 coll. *Sirko*, det. *Mukhin* (SVER(F) 47993). **Nm:** Krasnouralsk, Dachny, on aspen, 16.VIII.1995 *Bryzgalov* (SVER(F) 51529). **ST:** Verkhoturkiye, Vostochny, on *Betula*, 28.VIII.1963 coll. *Storozheva*, det. *Mukhin* (SVER(F) 48735). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead aspen, 21.VIII.1947 *Stepanova* (SVER(F) 46333). **Is:** Ivdel area, Chernaja Parma mnt., on birch, 21.VIII.1958 coll. *Storozheva*, det. *Mukhin* (SVER(F) 47225).

Polyporus tuberaster (Pers.) Fr.

Syn. *Polyporus coronatus* Rostk., *P. forquignonii* Quél.

LC • HB, SB • Fhd, Fhm, Frd

On *Betula*, *Sorbus*, *Tilia*, *Ulmus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Bp:** Demidova (1957); Stepanova (1971); Nevjansk area, Tavatuy lake, on *Sorbus*, 22.VIII.1970 *Kazanseva* (SVER(F) 48994). **PI:** Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971).

Polyporus umbellatus Fr.

²VU D1 • HB, SB • Frdv

At the base and roots of *Acer*, *Alnus*, *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 9.IX.2000 *Shiryayev* (SVER(F) 51518). **Cl:** Nizhneserginsk area, SE of Mikhailovsk town, SW slope of Bardym mnt. range, on *Acer*, 30.VIII.1969 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 48567). **Bp:** Red Book... (1996). **PI:** Stepanova (1971); Red Book... (1996).

****Porotheleum fimbriatum*** (Pers.: Fr.) Fr.

LC • HB, SB, MB • Fhm, Frd

On *Abies*, *Picea*, *Betula*, *Populus*.

P: Achit area, Korzunovka, on *Abies*, 28.VIII.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 49742). **Cl:** Shalya area, Shigaevo, on *Populus*, 5.IX.2000 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 54146). **Nm:** Krasnouralsk, Dachny, on *Betula*, 16.VIII.1995 coll. *Bryzgalov*, det. *Kotiranta* (SVER(F) 51245). **ST:** Verkhoturkiye, Vostochny, on *Picea*, 25.VIII.1963 coll. *Storozheva*, det. *Almanaite* (SVER(F) 48477). **Is:** Severouralsk area, Bajanovka, on *Picea* and *Betula*, 7.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 56813).

****Postia alni*** Niemelä & Vampola

LC • SB, MB • Fhm, Frd, Slf

On *Populus* & *Padus*.

Cl: Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on dead, corticated *Padus*, 26.VIII.2002 *Kotiranta 19807*; *Kotiranta et al.* (2007). **Bp:** *Kotiranta et al.* (2007); Biological station USU, on *Padus*, 29.VI.2007 *Shiryayev* (SVER(F) 58247). **NI:** Irbit area, Zaikovo, on aspen, 19.IX.1968 coll. *Sirko*, det. *Kotiranta* (SVER(F) 48462). **Is:** Ivdel area, Vizhaj, on aspen, 19.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 57192).

Postia balsamea (Peck) Jülich

Syn. *Oligoporus balsameus* (Peck) Gilb. & Ryvarden, *Tyromyces kymatodes* Donk

LC • SB, MB • Fhmv

On *Abies*, *Picea*, *Pinus*.

Cl: *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Stavishenko* (2006); *Kotiranta et al.* (2007). **Kh:** Karpinsk area, Kazansky Kamen mt. range, eastern slope, mixed mesic old-growth heath forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead fir, 21.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 45087); *Stavishenko* (2003).

Postia caesia (Schr.) P. Karst

LC • FS, HB, SB, MB, NB • Fhd, Fhm, Frd

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

P: *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Cl:** Nizhneserginsk area, Mikhailovsk Zavod, old-growth *Abies*-dominated forest, on fallen fir, with *Tremella polyporina* as parasite, 20.VIII.1948 *Stepanova* (SVER(F) 45182); *Stepanova-Kartavenko* (1967); *Stepanova* (1971); Prigorod area, Visim Nat. Res., Galashki, on spruce, 17.IX.1994 *Kotiranta 11775*; *Kotiranta et al.* (2007). **Bp:** *Stepanova & Mukhin* (1979); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, almost decorticated pine, 25.VIII.2002 *Kotiranta 19754*; *Stavishenko* (2000); *Kotiranta et al.* (2007). **PI:** *Mukhin et al.* (2003); *Kotiranta et al.* (2007). **Nm:** Krasnouralsk, Dachny, on *Picea*, 16.VIII.1995 *Bryzgalov* (SVER(F)

50152). **ST:** Verkhoturkiye, Vostochny, on *Picea*, 28.VIII.1963 coll. *Storozheva*, det. *Mukhin* (SVER(F) 48039). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Ous, old-growth *Picea*–*Pinus sibirica*-dominated forest, on fallen trunk of *Pinus sibirica*, with *Tremella polyporina* as parasite, 9.VIII.2006 *Shiryayev* (SVER(F) 58705).

****Postia ceriflua*** (Berk. & M.A. Curtis) Jülich

Syn. *Tyromyces revolutus* (Bres.) Bondartsev & Singer

DD • HB, SB, MB • Fhd, Fhmv

On *Abies* & *Picea*.

P: Krasnoufimsk area, Chernaja Rechka, mesic old-growth heath forest, on *Abies*, 14.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 55400). **Cl:** Nizhneserginsk area, 7 km S of Nizhniye Sergi, on *Picea*, 8.IX.2004 coll. *Ushakova*, det. *Almanaite* (SVER(F) 54035). **Is:** Ivdel area, Pojasovy Kamen mnt. range, on *Picea*, 18.VIII.1973 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 47493).

Postia floriformis (Quél) Jülich

LC • HB, SB, MB • Fhm, Frd

On *Abies*, *Picea*, *Pinus*.

Cl: Stavishenko (2006). **Bp:** Stepanova (1971); Kotiranta et al. (2007). **PI:** Mukhin et al. (2003); Kotiranta et al. (2007). **Ks:** Stepanova-Kartavenko (1967); Kushva area, Kedrovka mnt., on fir, 8.IX.2004 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 55422). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Severouralsk area, Kumba mnt., on Siberian pine, 28.VIII.2005 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 56212).

Postia fragilis (Fr.) Jülich

LC • HB, SB, MB, NB • Cshi, Cw, Fhd, Fhm, Frd

On *Abies*, *Larix*, *Picea*, *Pinus*. Widely spread.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Bp:** Stepanova (1971); Sisert area, Biological station USU, on strongly human influenced grass-herb forest, on decorticated pine log, 28.VIII.2002 *Kotiranta 19900*; Kotiranta et al. (2007). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **ST:** Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta 20958*. **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Ous, on *Picea*, 7.VIII.2007 *Shiryayev* (SVER(F) 56507).

Postia guttulata (Peck) Jülich

DD • HB, SB, MB • Fhmv

Mostly on *Picea*, once at base of *Pinus sibirica*.

Cl: Prigorod area, Visim Nat. Res., Galashki, mesic old-growth forest, on fallen trunk of spruce, 18.IX.1994 *Kotiranta 11828*; Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Kotiranta et al. (2007). **PI:** Mukhin et al. (2003); Kotiranta et al. (2007). **Kh:** Karpinsk area, Konzhakovsky Kamen mnt. range, on *Picea*, 18.VII.1998 *Ushakova 219*; *ibid.*, on Siberian pine, 18.VII.1998 *Ushakova 225*.

Postia hibernica (Berk. & Broome) JülichSyn. *Postia septentrionalis* (Vampola) Renvall

LC • HB, SB • Fhd, Frm

On *Abies*, *Picea*, *Pinus*.

Cl: Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Kotiranta et al. (2007). **PI:** Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Mukhin (1993).

Postia lactea (Fr.) P. Karst.Syn. *Tyromyces lacteus* (Fr.) Murrill

DD • FS, HB, SB • Frd

On *Acer*, *Populus*, *Tilia*.

P: Stepanova (1971); Krasnoufimsk area, Sarana, on *Acer*, 2.IX.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 52244). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Shalya area, Shigaevo, on *Tilia*, 7.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 53686). **Bp:** Demidova (1963), Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, dry herb-rich forest, on *Populus*, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 56416).

****Postia laterita*** Renvall

DD • SB • Frmv

On *Pinus*.

Ks: Kushva area, NW slope of Kedrovaya mnt., old-growth *Pinus*-dominated dry heath forest, on fallen trunk of pine, 8.VIII.2004 coll. *Shiryayev*, det. *Almanaita* (SVER(F) 55345).

Postia leucomallella (Murrill) Jülich

LC • FS, HB, SB, MB, NB • Fhd, Fhm, Frd, Sif

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

P: Achit area, Korzunovka, on fir, 24.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 48258). **Cl:** Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on decorticated spruce, also *Gloeophyllum sepiarium*,

Fomitopsis rosea. 26.VIII.2002 *Kotiranta 19820*; Prigorod area, Visim Nat. Res., Galashki, on pine, 17.IX.1994 *Kotiranta 11766*; *ibid*, on spruce, 18.IX.1994 *Kotiranta 11770*; *ibid*, on Siberian pine, 18.IX.1994 *Kotiranta 11831*; *Kotiranta et al.* (2007). **Bp**: Sisert area, Biological station USU, *Pinus*-dominated, partly relatively, luxuriant, fairly old forest, partly decorticated pine, 13.VIII.1993 *Kotiranta 10990*; *ibid.*, 13.VIII.1993 *Kotiranta 11001*; *ibid.*, on fallen pine, also *Peniophorella pubera*, 13.VIII.1993 *Kotiranta 11009*; *ibid.*, on fallen pine, also *Antrodia sinuosa*, 13.VIII.1993 *Kotiranta 11013*; *ibid.*, on fallen pine, 13.VIII.1993 *Kotiranta 11023*; *ibid*, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on decorticated pine, 27.VIII.2002 *Kotiranta 19888*; *ibid*, on small, partly corticated pine, also *Ceraceomyces sulphurinus*, *Phlebiella sulphurea*, *Resinicium pinicola*. 27.VIII.2002 *Kotiranta 19898*; Stavishenko (2006); *Kotiranta et al.* (2007). **PI**: Mukhin (1993); Mukhin *et al.* (2003); *Kotiranta et al.* (2007). **NI**: Mukhin (1993). **Kh**: Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of spruce, 20.VIII.1947 *Stepanova* (SVER(F) 46418); Stavishenko (2003). **OU**: Ivdel area, Ous, on spruce, 10.VIII.2006 *Shiryayev* (SVER(F) 57847).

Postia lowei (Pilát ex Pilát) Jülich

DD • SB, MB • Fhmv

On *Picea*.

Bp: *Stepanova* (1971); Stavishenko (2006). **Is**: *Stepanova-Kartavenko* (1967); *Stepanova* (1969, 1971).

****Postia persicina*** Niemelä & Y.C. Dai

VU D2 • NB • Fhmv

On *Picea* & *Pinus sibirica*.

Kh: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mesic mixed old-growth heath forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen Siberian pine, 12.VIII.2005 *Kotiranta 20865* (part in TAA); *ibid*, on corticated spruce, 12.VIII.2005 *Votintseva* & *Kotiranta 20876*.

Postia placenta (Fr.) M.J. Larsen & Lombard

Syn. *Gloeoporus gelatinosotubulosus* (Pilát) Bondartsev & Kartavenko, *Poria incarnata* Pers., *Rhodonía placenta* (Fr.) Niemelä, K.H. Larss. & Schigel

LC • SB, MB • Fhd, Fhm

On *Picea* & *Pinus*.

Cl: Stavishenko (2006); *Kotiranta et al.* (2007); Prigorod area, Baronskoye, old-growth *Pinus*-dominated herb-rich forest, on fallen pine, 4.VIII.2009 *Stavishenko 708*. **Bp**: *Stepanova* (1971); *Stepanova & Mukhin* (1979); Sisert area, Biological

station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on fallen pine, 13.VIII.1993 *Kotiranta 11032*; Kotiranta et al. (2007). **Kh**: Stepanova (1971); Stavishenko (2003). **Is**: Stepanova-Kartavenko (1967).

Postia ptychogaster (F. Ludw.) Vesterh.

NT B2ab(ii,iii,iv); C2a(i) • HB, SB • Fhmv

On *Abies* & *Picea*.

P: Achit area, Korzunovka, on *Abies*, 17.VIII.1968 coll. *Kazantseva*, det. *Mukhin* (SVER(F) 48289). **Cl**: Nizhneserginsk area, 7 km S of Nizhniye Sergi, on *Abies*, 7.IX.2004 *Ushakova 1167*; Kotiranta et al. (2007); Shalya area, Shigaev, mesic old-growth *Abies*-dominated heath forest, on *Picea*, 6.VIII.2007 *Shiryayev* (SVER(F) 58758).

Postia rennyi (Berk. & Broome) Rajchenberg

Syn. *Oligoporus rennyi* (Berk. & Broome) Donk

LC • SB • Fhd, Fhmv

On *Picea* & *Pinus*.

Cl: Stepanova-Kartavenko (1967); Bondartseva (1998); Kotiranta et al. (2007); Kachkanar mnt., on pine, 29.VIII.1961 coll. *Storozheva*, det. *Ushakova* (SVER(F) 57506). **Bp**: Sisert area, Biological station USU, on cut *Picea* log, 20.VII.1999 *Ushakova 1222*. **Ks**: Kushava area, Kedrovka mnt., on Siberian pine, 4.IX.1970 coll. *Sirko*, det. *Kotiranta* (SVER(F) 48769).

Postia sericeomollis (Rommell) Jülich

Syn. *Oligoporus sericeomollis* (Romell) Bondartsev

LC • FS, HB, SB, MB, NB • Fhm, Frd

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

P: Stepanova (1971). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, mixed old-growth forest, on trunk of spruce, 17.IX.1994 *Kotiranta 11768*, *ibid.*, *Pinus*-dominated forest, on fallen pine trunk, 18.IX.1994 *Kotiranta 11782*; Stavishenko (2006); Kotiranta et al. (2007). **PI**: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI**: Mukhin (1993). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on dead pine, 20.VIII.1947 *Stepanova* (SVER(F) 45588); Stavishenko (2003). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Ivdel area, Ous, on Siberian pine, 7.VIII.2007 *Shiryayev* (SVER(F) 58264).

Postia stiptica (Pers.) Jülich

Syn. *Tyromyces albidus* (Schaeff.) Donk

LC • HB, SB, MB, NB • Fhd, Fhm, Frd

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

P: Krasnoufimsk area, Chernaja Rechka, on *Abies*, 14.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57696). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Demidova (1963); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated pine, 27.VIII.2002 *Kotiranta 19857*; Kotiranta et al. (2007). **PI:** Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Demidova (1963). **Ks:** Kushva area, Kedrovka mnt., on *Picea*, 28.VIII.1961 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 49980). **ST:** Verkhoturye, Vostochny, 8.IX.1970 coll. *Kazantseva*, det. *Ushakova* (SVER(F) 50761). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on decayed conifer, 12.VIII.2005 *Kotiranta 20972*. **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Ivdel area, Ous, on pine, 10.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57071).

Postia subcaesia (A. David) Jülich

LC • HB, SB, MB • Fhm, Sff

On *Alnus*, *Betula*, *Salix*, *Populus*.

Cl: Shalya area, Sylva, on *Populus nigra*, 28.VIII.1972 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 50483). **Bp:** Sisert area, Biological station USU, on *Alnus*, 30.VI.2008 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 58297). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Irbit area, Zaikovo, 20.VIII.1968 coll. *Sirko*, det. *Stavishenko* (SVER(F) 48212). **Kh:** Stavishenko (2003).

Postia tephroleuca (Fr.) Jülich

LC • HB, SB, MB, NB • Fhd, Fhm

Mostly on conifers *Abies*, *Larix*, *Picea*, *Pinus*, rarely on deciduous trees. Widely spread and common.

P: Achit area, Korzunovka, on *Abies*, 28.VIII.1974 coll. *Stepanova*, det. *Mukhin* (SVER(F) 49391). **Cl:** Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, old-growth *Abies*-dominated forest, on fallen trunk of fir, parasite *Tremella polyporina* inside pores, 4.IX.2004 *Ushakova* (SVER(F) 55561); Kotiranta et al. (2007). **Bp:** Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, hard, fallen pine, 13.VIII.1993 *Kotiranta 10996*; Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Mukhin (1993); **NI:** Mukhin (1993). **Ks:** Kushva area, Kedrovka mnt., on spruce, 28.VIII.1961 coll. *Storozheva*, det. *Kotiranta* (SVER(F) 48835). **ST:** Verkhoturiye, Vostochny, on birch, 5.IX.1970 coll. *Sirko*, det. *Stavishenko* (SVER(F) 49910). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus aucuparia*, *Padus racemosa*, *Salix* spp., on fallen trunk of spruce,

20.VIII.1947 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 45268). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **Ou:** Ivdel area, Ous, on spruce, 7.VIII.2007 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 58861).

****Protohydnum piceicola*** Kühner ex Bourdot

Syn. *Protodontia piceicola* (Kühner ex Bourdot) Martin

NE • SB, MB • Fhmv, Frd

On *Abies* & *Picea*.

Cl: Nevjansk area, Tavatuy Lake, on *Picea*, 20.VIII.1971 coll. *Sirko*, det. *Raitviir* (SVER(F) 40518). **Ks:** Kushva area, Kedrovka mnt., on *Abies*, 2.IX.1971 *Sirko* (SVER(F) 40548). **Ou:** Ivdel area, Ous, mesic old-growth *Picea-Pinus sibirica*-dominated heath forest, on *Picea* stump, 7.VIII.2007 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42720).

****Protomerulius caryae*** (Schwein.) Ryvarden

Syn. *Aporpium caryae* (Schwein.) Teixeira & D.P. Rogers, *Elmerina caryae* (Schwein.) D.A. Reid

DD • HB, SB, MB • Fhv, Frv

On *Betula* & *Populus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on aspen, 8.IX.1976 *Stepanova* (SVER(F) 40697). **Cl:** Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, on *Betula*, 3.IX.1970 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 40636). **Bp:** Nevjansk area, Tavatuy lake, on bark of *Betula*, IX.1948 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40115). **Ni:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Populus nigra*, 21.IX.1969 *Sirko* (SVER(F) 41323). **Is:** Severouralsk area, Kumba mnt., on *Betula*, 17.VIII.1972 *Sirko* (SVER(F) 41342).

Pseudochaete tabacina (Sowerby) T. Wagner & Fischer

Syn. *Hymenochaete tabacina* (Sowerby) Lév.

LC • FS, HB, SB, MB, NB, SA • Cp, Frd, Sif

On *Betula*, *Padus*, *Populus*, *Salix*, very seldom on *Picea*. Widely spread and common.

P: Stepanova (1971); Krasnoufimsk area, Chernaja Rechka, managed *Betula-Populus*-dominated mesic forest, on dead branch of *Padus*, also *Odonticum flabelliradiatum*, 15.VIII.2006 *Shiryayev* (SVER(F) 58437). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., on willow, 18.IX.1994 *Kotiranta 11789* & *11838*; Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on dead corticated *Padus*, also *Phlebia radiata*, *Cylindrobasidium evolvens*, *Peniophora cinerea*, 26.VIII.2002 *Kotiranta 19809*. **Bp:** Demidova (1963); Stepanova (1971); Stavishenko (2000, 2006). **PI:** Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **Ni:** Stepanova (1971); Mukhin (1993). **Nm:** Stepanova-Kartavenko (1967). **ST:** Stepanova (1971). **PT:**

Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead *Salix caprea*, 20.VIII.1947 Stepanova (SVER(F) 45688); Stavishenko (2003). **Is**: Stepanova-Kartavenko (1967); Ivdel area, Polunochnoje, on *Padus*, 18.VIII.2005 Kotiranta (SVER(F) 56929). **OU**: Ivdel area, Pelym, on willow, 2.VIII.1966 coll. Sirko, det. Mukhin (SVER(F) 50119).

Pseudocraterellus undulatus (Pers.) Rauschert

Syn. *Pseudocraterellus sinuosus* (Fr.) Corner

NT C2a(i) • FS, HB, SB • Fhmv, Frdv

On soil in forests with broadleaved trees.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», 3.IX.1996 Shiryayev (SVER(F) 51009). **KK**: Arti area, Pristan', 29.VIII.1968 coll. Kazantseva, det. Shiryayev (SVER(F) 48236). **Cl**: Shiryayev & Stavishenko (2008). **Bp**: Nevjansk area, S coast of Tavatuy lake, 6.VIII.2006 Shiryayev (SVER(F) 55708). **PI**: Shiryayev (2007c).

Pseudohydnum gelatinosum (Scop.) P. Karst.

LC • HB, SB, MB • Fhmv, Frdv

On *Abies*, *Picea*, *Pinus*. Widely spread, but not common.

P: Achit area, Korzunovka, on *Abies* stump, 29.VIII.1960 coll. Stepanova, det. Sirko (SVER(F) 40248). **Cl**: Stepanova (1971); Revda area, Khomutovka, border of Europe and Asia, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on *Picea* stump, also *Climacocystis borealis*, 26.VIII.2002 Kotiranta 19824; ibid, large corticated *Pinus*, also *Fomitopsis rosea*, 26.VIII.2002 Kotiranta 19839. **Bp**: Stepanova (1971); Nevjansk area, W coast of Tavatuy lake, on *Abies* stump, 16.IX.2001 Shiryayev (SVER(F) 42544). **NI**: Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Picea*, 19.IX.1968 Sirko (SVER(F) 40405). **Ks**: Kachkanar mnt., on *Picea*, 13.VIII.1995 coll. Bryzgalov, det. Shiryayev (SVER(F) 42802). **Kh**: Stepanova (1971); Ivdel area, Molebny Kamen mnt. range, on Siberian pine, 13.VIII.2005 Shiryayev (SVER(F) 42837). **Is**: Severouralsk area, Bajanovka, on *Picea*, 6.VIII.2005 Knudsen & Mukhin (SVER(F) 42899). **OU**: Ivdel area, Ous, on Siberian pine, 10.VIII.2006 Shiryayev (SVER(F) 42951).

Pseudomerulius aureus (Fr.: Fr.) Jülich

Syn. *Merulius aureus* Fr.

LC • HB, SB, MB • Fhdv, Fhm, Frd

On *Pinus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Achit area, Korzunovka, 20.VIII.1977 coll. Stepanova, det. Kotiranta (SVER(F) 47707). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Shalya area, Shigaev, 3.IX.2000 coll. Shiryayev, det. Mukhin (SVER(F) 53791). **Bp**: Demidova (1963); Stepanova-

Kartavenko (1967); Nevjansk area, Tavatuy lake, 30.VIII.1978 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 49876). **NI**: Mukhin (1993). **Kh**: Stavishenko (2003). **Is**: Stepanova (1971).

Pseudotomentella flavovirens (Höhn. & Litsch.) Svrček

NT A2c+3c+4c; D1 • HB, SB • Fhm, Fhmv

On *Abies*, *Pinus*, once on *Corylus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus–Quercus* forest, on fallen branches of *Corylus*, 16.IX.1970 coll. *Sirko*, det. *Stepanova* (SVER(F) 43915 – part in TU). **Cl**: Shiryayev & Stavishenko (2008); Shiryayev (2008c).

****Pseudotomentella humicola*** M. J. Larsen

LC • SB • Fhd, Fhmv

On wood and litter of *Abies*.

Cl: Shalya area, Shigaev, old-growth *Abies*-dominated mesic heath forest with *Pinus*, *Tilia*, *Ulmus*, *Sorbus*, *Frangula*, on fallen trunk of fir, 29.VIII.1997 *Shiryayev* (SVER(F) 44746). **Ks**: Kushva area, Baranchinsky, NW slope of Delyanochnaja mnt., managed *Abies*-dominated dry forest, on fallen fir, 14.IX.1968 coll. *Sirko*, det. *Shiryayev* (SVER(F) 44404).

Pseudotomentella mucidula (P. Karst.) Svrček

LC • HB, SB, MB • Fhd, Fhm, Frd

On *Abies*, *Picea*, *Pinus*, rarely on *Betula* and *Populus*. Widely spread, but not common.

P: Shiryayev (2008c). **Cl**: Shalya area, Shigaev, old-growth *Pinus*-dominated herb-rich forest, on trunk of pine, 1.IX.2000 *Shiryayev* (SVER(F) 44505). **Bp**: Prigorod area, Visim Nat. Res., Galashki, dry heath forest, on fallen branch of spruce, 9.IX.2005 *Shiryayev* (SVER(F) 43914 – part in TU); Shiryayev & Stavishenko (2008). **NI**: Irbit area, Zaikovo, managed, mesic *Pinus*-dominated herb-rich forest with *Betula*, *Populus*, *Sorbus*, on fallen branch of aspen, 22.IX.1965 coll. *Storozheva*, det. *Stepanova* (SVER(F) 43869). **Kh**: Shiryayev (2008c). **Is**: Ivdel area, Polunochnoje, W slope of Chernaja Parma, old-growth *Abies–Pinus sibirica*-dominated dry forest, on fallen branch of Siberian pine, 25.VIII.1968 coll. *Stepanova*, det. *Shiryayev* (SVER(F) 43690).

Pseudotomentella nigra (Höhn. & Litsch.) Svrček

LC • FS, HB, SB, MB • Fhm, Frdv

On *Betula*, *Corylus*, *Populus* and conifers like *Abies* & *Pinus*.

P: Krasnoufimsk area, Sargaja, managed deciduous mesic heath forest with *Tilia*, *Populus*, *Ulmus*, *Betula*, *Sorbus*, *Corylus*, *Rhamnus*, on fallen branch of hazel, 9.VIII.1974 coll. *Stepanova*, det. *Mukhin* (SVER(F) 43901). **Cl**: Shiryayev (2008c).

Bp: Sisert area, SW slope of Abrosovka mnt., old-growth *Pinus*-dominated herb-rich forest with *Betula*, *Populus*, *Tilia*, on fallen branch of aspen, 27.VIII.1970 coll. *Stepanova*, det. *Mukhin* (SVER(F) 43304). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, mesic, old-growth herb-rich *Pinus*-dominated forest with *Betula*, *Populus*, *Sorbus*, *Padus*, *Alnus*, on partly buried birch branch and birch bark tube, 11.VI.2008 *Shiryaev & Mukhin* (SVER(F) 43540). **Kh:** Severouralsk area, Bajanovka, NW slope of Kumba mnt., on branch of aspen, 7.VIII.1949 *Stepanova* (SVER(F) 44241).

Pseudotomentella tristis (P. Karst.) M. J. Larsen

Syn. *Tomentella umbrina* (Fr.) Litsch.

LC • HB, SB • Fhmv, Frdv

On deciduous & coniferous trees.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, mesic old-growth herb-rich forest, on fallen trunk of *Picea*, 1.X.2000 *Shiryaev* (SVER(F) 43911 – part in TU). **Bp:** *Shiryaev & Stavishenko* (2008); *Shiryaev* (2008c). **PI:** *Shiryaev* (2007c, 2008c).

Pterula gracilis (Desm. & Berk.) Corner

LC • FS, HB, SB, MB, NB, SA, AL • Ah, Am, Blm, Blr, Fh, Fr, Md, Ml, Mr, Rg, Rs, Sms
On decaying leaves and grasses. Widely spread and common.

P: *Shiryaev* (2006a). **Cl:** *Shiryaev* (2004b, 2006a, 2007f); *Shiryaev & Stavishenko* (2008). **Bp:** *Shiryaev* (2004b, 2006a, 2007b). **PI:** *Mukhin et al.* (2003). **NI:** *Shiryaev* (2004b, 2006a). **Ks:** *Shiryaev* (2006a). **Nm:** *Shiryaev* (2004b, 2006a). **ST:** *Shiryaev* (2006a). **PT:** *Stepanova* (1971). **Kh:** *Shiryaev* (2004b, 2006a). **Is:** *Shiryaev* (2004b, 2006a, 2007b). **OU:** *Shiryaev* (2004b, 2006a). **VP:** *Shiryaev* (2006a).

Pterula sclerotiiicola Berthier

DD • HB, SB, MB, NB, SA • Fhm, Frd, Ml, Slm

On decaying petioles of *Athyrium* & *Dryopteris*.

Cl: *Shiryaev* (2004b, 2006a). **Bp:** *Shiryaev* (2006a, 2007f); *Shiryaev & Stavishenko* (2008). **PI:** *Shiryaev* (2007c). **Kh:** *Shiryaev* (2006a). **Is:** *Shiryaev* (2006a).

Pterula subulata Fr.

Syn. *Pterula multifida* (Chevall.) Fr.

NT B2b(ii,iv); C2a(i) • FS, HB, SB, MB • Fhmv, Frdv, Frmv

On soil and litter. Widely spread, but not common.

P: *Shiryaev* (2004b, 2006a, 2007f). **Cl:** *Shiryaev* (2004b, 2006a, 2007f). **Bp:** *Stepanova* (1971); *Stepanova & Mukhin* (1979); *Shiryaev* (2006a, 2007b); *Shiryaev*

& Stavishenko (2008). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **ST:** Stepanova (1971). **Kh:** Shiryayev (2004b, 2006a). **Is:** Stepanova (1971); Shiryayev (2004b, 2006a).

Punctularia strigosozonata (Schwein.) P.H.B. Talbot

Syn. *Phlebia rubiginosa* Berk. & Ravenel

NT B2ab(iii); D1 • HB, SB, MB • Fhdv, Fhmv, Frd

On *Populus*. Widely spread, but rare.

P: Stepanova (1971); Bondartseva et al. (2000). **Cl:** Shalya area, Shigaevo, mesic old-growth heath forest, 10.VIII.2007 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 56958).

Bp: Stepanova (1971); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on corticated aspen, 13.VIII.1993 *Kotiranta 11018*; Bondartseva et al. (2000); Stavishenko (2000, 2006); Shiryayev & Stavishenko (2008). **PI:** Mukhin (1993). **NI:** Stepanova-Kartavenko (1967); Mukhin (1993). **Kh:** Stavishenko (2003).

Pycnoporellus alboluteus (Ellis & Everh.) Kotl. & Pouzar

Syn. *Hapalopilus alboluteus* (Ellis & Everh.) Bondartsev & Singer

¹VU B2a; D2 • HB, SB • Fhmv

On *Picea*.

P: Stepanova-Kartavenko (1967); Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stavishenko (2006); Red Book... (2008).

Pycnoporellus fulgens (Fr.) Donk.

Syn. *Hapalopilus fibrillosus* (P. Karst.) Bondartsev & Singer

NT C2a(i) • HB, SB, MB • Fhmv, Frdv

On *Abies*, *Picea*, *Pinus sibirica*.

P: Stepanova (1971). **Cl:** Kotiranta et al. (2007); Prigorod area, Baronskoye, mesic old-growth *Picea*-dominated forest, on fallen fir trunk, 4.VIII.2009 *Stavishenko 709*; *ibid*, old-growth *Pinus*-dominated mesic herb-rich forest, on pine trunk, 4.VIII.2009 *Stavishenko 710*. **Bp:** Stavishenko (2000); Kotiranta et al. (2007). **PI:** Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of spruce, 21.VIII.1947 *Stepanova* (SVER(F) 47553); Ivdel area, Molebny Kamen mnt. range, mesic old-growth heath forest, on spruce 13.VIII.2005 *Kotiranta* (SVER(F) 58423). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003).

Pycnoporus cinnabarinus (Jacq.) Fr.

LC • FS, HB, SB, MB, NB, SA, AL • Fhd, Fhm, Frd

On deciduous trees. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Achit area, Korzunovka, on *Sorbus*, 29.VIII.1976 Stepanova (SVER(F) 48114). **KK:** Demidova (1963). **Cl:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Prigorod area, Baronskoye, old-growth *Alnus incana*–*Padus racemosa*-dominated mesic herb-rich forest in Chusovaya river valley, on fallen trunk of *Padus*, 4.VIII.2009 Stavishenko 723. **Bp:** Demidova (1963); Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **ST:** Stepanova-Kartavenko (1967); Stepanova (1971). **Kh:** Stepanova (1971); Stavishenko (2003); Severouralsk area, Kazansky Kamen mt. range, alpine timberline, on birch, 29.VIII.2005 Shiryayev (SVER(F) 57865). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Demidova (1963); Ivdel area, on birch, 7.VIII.2007 Shiryayev (SVER(F) 58488).

R

Radulodon erikssonii Ryvarden

NT B2a(iii) • HB • Fhv

On *Populus* & *Ulmus*.

P: Stepanova & Sirko (1974); Krasnoufimsk area, Sarana, mesic old-growth pine forest, on aspen, 23.VIII.1969 coll. Kazantseva, det. Kotiranta (SVER(F) 49189).

Radulomyces confluens (Fr.: Fr.) M.P.Christ.

Syn. *Corticium confluens* (Fr.) Fr.

LC • SB, MB, NB • Cp, Cshi, Frd

On deciduous trees. Widely spread and common.

Cl: Stepanova (1971). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, on strongly human influenced grass-herb forest, on corticated *Padus* branch, 28.VIII.2002 Kotiranta 19899. **NI:** Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Radulomyces molaris (Chaillet ex Fr.) M.P. Christ.

Syn. *Radulum rude* (Pers.) S. Lundell

LC • SB • Fhm

On *Populus* & *Ulmus*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Stepanova & Mukhin (1979); Sisert area, Biological station USU, managed mesic *Pinus*-dominated heath forest, on aspen, 20.VIII.2004 coll. Shiryayev, det. Mukhin (SVER(F) 55303).

Ramaria abietina (Pers.) Quél.

Syn. *Clavaria ochraceovirens* Jungh., *C. virescens* Gramberg

LC • HB, SB, MB, NB, SA • Cp, Cshi, Fad, Fhd, Fhm, Mdm, Rg, Slr

On mosses and litter of conifers, rarely on deciduous litter. Widely spread and common.

P: Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007b). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2006a). **Kh:** Tomilin (1965); Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2004b, 2006a). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Ramaria apiculata (Fr.) Donk

NT B2a+b(iii), D1 • HB, SB, MB, NB • Fhdv, Fhmv, Frdv

On conifers. Widely spread, but not common.

P: Shiryayev (2006a). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2004b, 2006a, 2007f). **Bp:** Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007b); Shiryayev & Stavishenko (2008). **PI:** Mukhin et al. (2003). Shiryayev (2006a). **Ks:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Stepanova (1971); Karpinsk area, Kytlym, foothills of Konzhakov Kamen mnt., on fallen trunk of *Abies*, 20.VII.1973 coll. *I.Parmasto*, det. *Shiryayev* (TAA 9200); Shiryayev (2004b, 2006a). **Is:** Shiryayev (2004b, 2006a).

****Ramaria bataillei*** (Maire) Corner

VU D1 • HB, SB • Fhmv

On soil.

P: Krasnoufmsk area, Sargaja, old-growth *Abies*-dominated mesic heath forest with *Acer*, *Tilia*, *Populus*, *Corylus*, on rich soil (chernozem), 10.IX.1997 *Shiryayev* 8543. **Cl:** Pervouralsk area, Didino, mesic old-growth *Pinus*-dominated heath forest with *Abies*, *Tilia*, *Populus*, *Sorbus*, *Betula* spp., on soil, 24.IX.2005 coll. *Yalkovsky*, det. *Shiryayev* 8632.

Ramaria botrytis (Pers.) Ricken

VU B2ab(ii,iii,iv); C2a(i) • FS, HB, SB • Fhmv, Frdv, Fsmv

On soil.

P: Shiryayev (2006a). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Stepanova (1971); Shiryayev (2006a).

Ramaria brunneicontusa R.H. Petersen

NA • SB • Cr

On soil in railway station, not found in nature. Possibly, an alien species in Sverdlovsk region.

Bp: Shiryaev (2006a, 2007b).

Ramaria corrugata (P. Karst.) SchildSyn. *Ramaria myceliosa* (Peck) Corner

LC • HB, SB, MB, NB • Fhd, Fhm, Frd

On conifers litter. Widely spread and common.

P: Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003). **NI:** Shiryaev (2006a). **Ks:** Shiryaev (2006a). **Nm:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **Kh:** Shiryaev (2006a). **Is:** Shiryaev (2004b, 2006a). **OU:** Shiryaev (2004b, 2006a). **VP:** Shiryaev (2006a).

Ramaria eosanguinea R.H. PetersenSyn. *Ramaria flava* (Schaeff.) Quél. *sensu auct.*

LC • FS, HB, SB, MB, NB • Fsm, Fhd, Fhm

On soil. Widely spread, but not common.

P: Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007f). **Bp:** Shiryaev (2004b, 2006a). **PI:** Shiryaev (2006a). **NI:** Shiryaev (2006a). **Ks:** Shiryaev (2006a). **Nm:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **Is:** Shiryaev (2004b, 2006a).

Ramaria eumorpha (P. Karst.) CornerSyn. *Clavaria invalii* Cotton & Wakef.

LC • FS, HB, SB, MB, NB, SA • Fhm, Frd

On conifer litter. Widely spread and common.

P: Shiryaev (2006). **Cl:** Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Shiryaev (2004b, 2006a, 2007b). **PI:** Stepanova (1971); Mukhin et al. (2003). **NI:** Shiryaev (2006a). **Ks:** Shiryaev (2006a). **Nm:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **PT:** Shiryaev (2006a). **Kh:** Shiryaev (2004b, 2006a). **Is:** Shiryaev (2004b, 2006a). **OU:** Shiryaev (2006a).

Ramaria fennica (P. Karst.) Ricken

VU A2c+3c+4c; C2a(i) • HB, SB, MB • Fhm, Frdv

On soil.

P: Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2004b, 2006a). **PI:** Mukhin et al. (2003); Shiryaev (2006a). **ST:** Stepanova (1971); Shiryaev (2006a).

Ramaria flaccida (Fr.) BourdotSyn. *Clavaria crispula* Fr.**LC** • FS, HB, SB, MB • Fhm, Frd

On litter of conifers and deciduous trees, very seldom on fallen dead branches and trunks. Widely spread and common.

P: Shiryayev (2006a). **Cl:** Stepanova (1971); Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007b). **PI:** Stepanova (1971); Mukhin et al. (2003). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).***Ramaria flavescens*** (Schaeff.) R.H. Petersen**NT A3c** • FS, HB, SB • Fhm, Fhmv, Frd, Frdv

On soil.

P: Shiryayev (2006a); Krasnoufimsk area, Chernaja Rechka, 14.VIII.2006 *Shiryayev 8531*. **Cl:** Shiryayev (2006a); Shalya area, Sylva, Shigaev, mesic old-growth *Abies*-dominated herb-rich forest with *Pinus*, *Tilia*, *Ulmus glabra*, *Betula*, *Sorbus*, on soil, 21.IX.2000 *Shiryayev 3343*. **Bp:** Nevjansk area, Tavatuy Lake, managed *Pinus*-dominated mesic heath forest, on soil, 9.VIII.2006 *Shiryayev 8663*. **PI:** Tugulyum area, Yushkova, old-growth mixed herb-rich forest with *Pinus*, *Picea*, *Betula* spp., *Populus*, *Tilia*, *Sorbus*, on soil, 23.VIII.1968 coll. *Kazantseva*, det. *Shiryayev 8572*. **Ks:** Kachkanar area, southern slope of Kachkanar mnt., old-growth *Pinus-Abies-Tilia*-dominated mesic forest, 5.IX.1976 coll. *Stepanova*, det. *Shiryayev 8799*.***Ramaria flavicingula*** R.H. Petersen**NT B2a+b(iii), D1** • HB, SB • Fhmv

On soil.

P: Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a). **Bp:** Shiryayev (2006a). **PI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a).***Ramaria flavobrunnescens*** (G.F. Atk.) Corner**LC** • FS, HB, SB, MB • Fhm, Frd

On soil. Widely spread, but not common.

P: Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Shiryayev (2004b, 2006a).***Ramaria formosa*** (Pers.) Quél.**VU C1+2a(i)** • HB, SB, MB • Fhmv, Frdv

On soil.

P: Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Stepanova (1971); Shiryaev (2004b, 2006a). **PI:** Mukhin et al. (2003); Shiryaev (2006a). **Nm:** Shiryaev (2006a). **Is:** Shiryaev (2004b, 2006a).

Ramaria gracilis (Pers.) Quél.

Syn. *Ramaria palmata* (Pers.) Donk

LC • HB, SB, MB, NB • Fhd, Fhm, Frd

On litter of conifers. Widely spread and common.

P: Stepanova (1971); Shiryaev (2006a). **KK:** Shiryaev (2006a). **Cl:** Stepanova (1971); Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Shiryaev (2004b, 2006a, 2007b). **PI:** Stepanova-Kartavenko (1967); Mukhin et al. (2003); Shiryaev (2006a). **NI:** Stepanova-Kartavenko (1967); Shiryaev (2006a). **Ks:** Shiryaev (2006a). **Nm:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **PT:** Shiryaev (2006a). **Kh:** Stepanova (1971); Shiryaev (2004b, 2006a). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2004b, 2006a). **OU:** Shiryaev (2006a). **VP:** Shiryaev (2006a).

Ramaria ignicolor Corner

NT B1+2a(iii); C2a(i) • HB • Fv, Fhmv

On soil.

P: Achit area, Korzunovka, old-growth forest with *Abies*, *Pinus*, *Tilia*, *Sorbus aucuparia*, *Frangula alnus*, on soil, 29.VIII.1974 coll. *Stepanova*, det. *Shiryaev 8645*. **Cl:** Shiryaev (2006a); Shalya area, Sylva, mesic old-growth heath forest with *Pinus*, *Tilia*, *Ulmus glabra*, *Populus*, 2.IX.1997 *Shiryaev 8839*.

Ramaria lutea (Vent.) Schild

EN B1+2ab(ii,iii,iv); C2a(i) • HB, SB • Fhmv, Frdv

On soil.

P: Shiryaev (2007); Krasnoufimsk area, Sarana, old-growth *Abies*-dominated mesic heath forest with *Acer*, *Corylus*, *Euonymus*, on carbonate rich soil (chernozem), 10.IX.1993 coll. *Bryndina*, det. *Shiryaev 8501*. **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, dry old-growth *Abies*, *Pinus*, *Tilia*, *Ulmus*, *Sorbus* herb-rich forest, on carbonate soil, 24.VIII.2001 *Shiryaev 8856*.

Ramaria mutabilis Schild & R.H. Petersen

NT B2a(ii,iv); D1 • SB • Fhmv, Frdv

On soil.

Cl: Shiryaev (2006a); Nizhneserginsk area, W slope of Bardym mnt. range, old-growth *Abies*-dominated moist forest with *Tilia*, *Populus*, *Sorbus*, *Frangula*, on soil, 20.IX.2004 *Shiryaev 8781*. **Bp:** Shiryaev (2006a, 2007b, 2007f).

Ramaria obtusissima (Peck) Corner

NT B2ab(ii,iii,iv); C2a(i) • FS, HB, SB • Fhmv, Frdv

On soil.

P: Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a); Nevjansk area, S coast of Tavatuy Lake, old-growth *Picea*-dominated dry forest with *Pinus*, *Tilia*, *Sorbus*, *Salix* spp., *Juniperus*, on soil, 2.IX.1977 coll. *Stepanova*, det. *Shiryayev 8822*. **PI:** Shiryayev (2007c). **Ks:** Kushva area, SW slope of Kedrovka mnt., old-growth *Abies*-dominated mesic heath forest with *Tilia*, *Frangula*, *Sorbus*, 9.IX.2004 *Shiryayev 8561*.

Ramaria pallida (Schaeff.) Ricken

NT A3c • HB, SB, MB • Fhmv

On soil.

P: Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a); Shiryayev & Stavishenko (2008). **Bp:** Nevjansk area, Iset, «Chertovo Gorodische», mesic old-growth heath forest with *Pinus*, *Picea*, *Larix*, *Tilia*, *Sorbus*, *Alnus*, on soil, 17.IX.2000 *Shiryayev* (LE 242427); Shiryayev (2004b, 2006a); Polevskoy area, W slope of Azov mnt., managed *Pinus*-dominated forest, on soil, 18.VIII.1967 coll. *Sirko*, det. *Shiryayev 8891*. **Is:** Shiryayev (2006a).

Ramaria paludosa (S. Lundell) Schild

NT B2a(ii,iv); D1 • HB, SB • Fhmv, Frdv

On soil.

Cl: Shiryayev (2004b, 2006a). **Bp:** Nevjansk area, S coast of Tavatuy Lake, virgin mesic heath forest with *Pinus*, *Tilia*, *Juniperus*, on stony soil, 3.X.1999 *Shiryayev* (LE 242428); Shiryayev (2006a). **PI:** Bogdanovich area, Bajny, managed mesic *Pinus*-dominated herb-rich forest with *Betula* spp., *Populus*, *Frangula*, *Cotoneaster*, on soil, 7.IX.1996 *Shiryayev 8765*; Shiryayev (2007c).

Ramaria rubella (Schaeff.) R.H. Petersen

EN C1+2a(i); D1 • HB, SB • Fhdv, Fhmv, Frdv

On coniferous trees.

P: Shiryayev (2006a); Red Book... (2008). **Cl:** Shiryayev (2004b, 2006a, 2007f); Red Book... (2008); Shiryayev & Stavishenko (2008). **PI:** Mukhin et al. (2003); Shiryayev (2006a); Red Book... (2008).

Ramaria rufescens (Schaeff.) Corner

NT C1+2a(i) • HB, SB • Fhmv, Frdv

On soil.

P: Solovjev (1946); *Stepanova* (1971). **Cl:** Shiryayev (2006a, 2007f). **Bp:** Shiryayev (2006a, 2007b, 2009).

Ramaria spinulosa (Pers.) Quél.

Syn. *Ramaria divaricata* P. Karst., *R. karstenii* (Sacc. & Syd.) Corner

VU B2a+b(iii), C2a(i), D1 • HB, SB • Fhmv, Frd

On soil.

P: Achit area, Ljampa, old-growth *Abies*-dominated mesic heath forest with *Tilia*, *Ulmus*, *Sorbus*, on soil, 25.VIII.1996 *Shiryayev* 8678. **CI:** Shiryayev (2004b, 2006a); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a). **PI:** Shiryayev (2006a). **Nm:** Krasnouralsk, Dachny, managed *Pinus*-dominated mesic herb-rich forest with *Picea*, *Tilia*, *Betula*, *Sorbus*, on soil, 5.VIII.2004 *Shiryayev* 8830.

Ramaria stricta (Pers.) Quél.

Syn. *Ramaria bourdotiana* Maire, *R. concolor* (Corner) R.H. Petersen, *R. condensata* (Fr.) Quél.

LC • FS, HB, SB, MB, NB, SA, AL • Cshi, Fhd, Fhm, Frd, Fsm, Fsm, Md, MI

On dead wood, branches, buried twigs and litter. Widely spread and common.

P: Shiryayev (2006a). **CI:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007b). **PI:** Stepanova (1971); Mukhin et al. (2003). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **PT:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Ramaria subdecurrens (Coker) Corner

Syn. ? *Ramaria altaica* Schwarzman & Philimonova

VU C2a(i); D1+2 • HB • Fhmv, Frdv

On soil, litter and mosses.

P: Shiryayev (2006a). **PI:** Mukhin et al. (2003); Shiryayev (2006a, 2007c).

Ramaria subtilis (Coker) Schild

NT C1+2a(i) • HB, SB • Fhmv

On soil.

P: Achit area, Korzunovka, mesic old-growth *Abies*-dominated heath forest with *Tilia*, *Acer*, *Populus*, *Ulmus*, *Frangula*, *Sorbus*, on rich soil, 28.VIII.1977 coll. *Stepanova*, det. *Shiryayev* 8869. **CI:** Shiryayev (2006a).

Ramaria suecica (Fr.) Donk

LC • HB, SB, MB, NB, SA • Fhd, Fhm

On soil and litter. Widely spread and common.

P: Shiryayev (2006a). **CI:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Shiryayev (2004b, 2006a, 2007b); **PI:** Mukhin et al. (2003). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a).

ST: Shiryayev (2006a). **PT:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a). **Is:** Stepanova (1971); Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Ramaria testaceoflava (Bres.) Corner

NT B2ab(iii); C2a(i) • HB, SB • Fhmv, Frd

On soil.

P: Krasnoufimsk area, Chernaya Rechka, mesic old-growth *Abies*-dominated forest with *Betula* spp., *Pinus*, *Ulmus*, *Populus*, *Tilia*, *Sorbus*, on soil, 16.VIII.2006 *Shiryayev 8740*. **Cl:** Shiryayev (2004b, 2006a); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a). **PI:** Shiryayev (2007c). **Ks:** Shiryayev (2006a).

Ramaria tsugina (Peck) Marr & D.E. Stuntz

VU B1+2a(iii); D1 • HB, SB, MB • Fhmv

On *Abies*, *Picea*, *Pinus*.

P: Achit area, Korzunovka, mesic old-growth *Abies*-dominated heath forest with *Tilia*, *Ulmus*, *Populus*, *Sorbus*, on fallen trunk of fir, 20.VIII.1973 coll. *Stepanova*, det. *Shiryayev 8556*. **Cl:** Shiryayev (2004b, 2006a); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2006a). **Is:** Shiryayev (2004b, 2006a).

Ramaricium albochraceum (Bres.) Jülich

NT B1+2ab(iii); D1 • HB, SB • Fhmv

On *Picea* & *Juniperus*.

P: Achit area, Korzunovka, old-growth *Abies*-dominated mesic forest, on spruce, 28.VIII.1969 coll. *Kazantseva*, det. *Shiryayev* (SVER(F) 48230). **Cl:** Shiryayev & Stavishenko (2008). **Bp:** Nevjansk area, S coast of Tavatuy lake, old-growth *Picea*-dominated mesic heath forest, on *Juniperus*, 18.IX.2001 *Shiryayev* (SVER(F) 54293). **PI:** Shiryayev (2007c).

Ramariopsis biformis (G.F. Atk.) R.H. Petersen

LC • FS, HB, SB, MB • Frd

On soil and litter. Widely spread and common.

P: Bisert' area, Klenovskoje, managed *Pinus*-dominated herb-rich forest with *Ulmus*, *Tilia*, *Betula* spp., *Acer*, *Sorbus*, *Frangula*, on litter, 29.VIII.1996 *Shiryayev 8507*; Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a); Shiryayev & Stavishenko (2008). **Bp:** Sisert area, Biological station USU, Sisert river, in moist forest with *Alnus*, *Padus*, *Salix* spp., *Betula*, on humus, fallen leaves and dead herbs, 11.VIII.1996 *Shiryayev* (LE 242439); Shiryayev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2006a). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Ramariopsis cf. citrina Schild**LC** • HB, SB • Cm, Frd

On soil and litter.

P: Krasnoufimsk area, Sargaja, meadow in deciduous forest with *Acer*, *Tilia*, *Betula* spp., *Rhamnus*, *Euonymus*, on soil and litter, 13.VIII.2006 *Shiryayev 8587*.**Cl:** Shiryayev (2006a). **Ks:** Kushva area, SW slope of Kedrovka mnt., meadow in open mixed forest with *Pinus*, *Betula*, *Tilia*, *Sorbus*, on grass- and leaf-litter and on small twigs of deciduous trees, 6.IX.2004 *Shiryayev 8778*.***Ramariopsis crocea*** (Pers.: Fr.) Corner**VU** C2a(i); D1 • FS, HB, SB • Cd, Frdv, Frdv

On soil, rarely on litter or strongly decayed wood.

P: Bisert' area, Klenovskoje, nemoral herb-rich meadow, on rich soil (chernozem), 29.VIII.1996 *Shiryayev 8640*. **Cl:** Shiryayev (2004b, 2006a). Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Shiryayev (2004b, 2006a). **PI:** Mukhin et al. (2003). **PT:** Stepanova (1971).***Ramariopsis kunzei*** (Fr.) Corner**LC** • FS, HB, SB, MB • Fhm, Frd

On soil and litter. Widely spread, but not common.

P: Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007); Shiryayev & Stavishenko (2008). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological Station USU, old-growth forest with *Pinus*, *Sorbus*, *Populus*, *Betula*, *Alnus*, on rich soil, 5.IX.1998 *Shiryayev (LE 242440)*; Shiryayev (2004b, 2006a, 2007b); **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2006a). **Is:** Shiryayev (2006a). **OU:** Shiryayev (2006a).***Ramariopsis minutula*** (Bourdot & Galzin) R.H. Petersen**NE** • HB, SB • Fhm, Frd

On soil and litter.

P: Krasnoufimsk area, Chernaya Rechka, managed heath forest with *Abies*, *Pinus*, *Ulmus*, *Tilia*, *Corylus*, on soil, 15.VIII.2006 *Shiryayev 7310*; *ibid.*, «Nizhneirginsk oak forest», managed *Pinus-Quercus* dominated herb-rich forest, on soil and litter, 8.X.2009 coll. *Almanaite*, det. *Shiryayev 8974*. **Cl:** Shiryayev (2006a).***Ramariopsis pulchella*** (Boud.) Corner**EN** A2c+3c+4c; C2a(i) • FS, HB, SB • Frd, Fsd, RI, STms

On soil and litter.

P: Krasnoufimsk area, Chernaya Rechka, alvar slope with *Ulmus glabra*, *Pinus*,

Rosa spp, *Cotoneaster* sp., 15.VIII.2006 *Shiryayev 8756*. **Cl:** Shalya area, «Reka Chusovaya» Nat. Park, alvar steppe slope, on calcareous soils, 12.IX.2004 *Shiryayev 8861*; *Shiryayev* (2004b, 2006a); Red Book... (2008). **Bp:** *Shiryayev* (2004b, 2006a, 2007b); Red Book... (2008).

Ramariopsis subarctica Pilát

NT B2ab(iii); C2a(i) • MB, NB, SA, AL • Ah, Fd, M

Mostly on the mosses in alpine zone & rarely on the bogs in boreal zone.

ST: Verkhoturkiye, Vostochny, bog with *Pinus*, on the mosses, 2.IX.1997 *Shiryayev 8898*. **Kh:** *Shiryayev* (2006a, 2006b). **Is:** *Shiryayev* (2006b); Ivdel area, Ous, bog with *Pinus*, on mosses, 11.VIII.2006 *Shiryayev 8525*. **OU:** *Shiryayev* (2006a).

Ramariopsis subtilis (Pers.) R.H. Petersen

Syn. *Clavaria dichotoma* Gobey

LC • FS, HB, SB, MB • Fhm, Frd

On soil and litter. Widely spread.

P: *Shiryayev* (2006a). **Cl:** *Shiryayev* (2004b, 2006a); *Shiryayev & Stavishenko* (2008). **Bp:** *Stepanova* (1971); *Shiryayev* (2004b, 2006a, 2007b). **PI:** *Mukhin et al.* (2003); *Shiryayev* (2006). **Nm:** *Shiryayev* (2006). **Is:** *Shiryayev* (2004b, 2006a).

Ramariopsis tenuicula R. H. Petersen

LC • FS, HB, SB • Cm, Fhd, Frd, Fsm

On soil.

P: *Shiryayev* (2006a). **Cl:** *Shiryayev* (2004b, 2006a, 2007); *Shiryayev & Stavishenko* (2008). **Bp:** *Shiryayev* (2004b, 2006a); Polevskoy area, W slope of Azov mt., managed *Pinus*-dominated open dry herb-rich forest with *Betula* spp., *Tilia*, *Sorbus*, on soil, 20.IX.1996 *Shiryayev 8617*. **PI:** Talitsa area, Troitsky, mesic nemoral herb-rich meadow with *Cotoneaster niger* and *Rosa* spp., on soil, 11.IX.2002 *Shiryayev 8888*. **Nm:** *Shiryayev* (2006a).

Ramariopsis tenuiramosa Corner

LC • HB, SB, MB • Fhm, Frd

On soil and litter. Widely spread, but not common.

P: *Shiryayev* (2006a). **Cl:** *Shiryayev* (2006a, 2007); *Shiryayev & Stavishenko* (2008). **Bp:** *Shiryayev* (2006a, 2007b). **PI:** *Shiryayev* (2006a, 2007c). **NI:** *Shiryayev* (2006a). **Ks:** *Shiryayev* (2006a). **Nm:** *Shiryayev* (2006a). **ST:** *Shiryayev* (2006a). **Kh:** *Shiryayev* (2006a). **Is:** *Shiryayev* (2006a).

Repetobasidium mirificum J. Erikss.

DD • SB, MB • Fhmv

On *Picea*.

Ks: Kushva area, Kedrovka mnt., old-growth *Picea*-dominated mesic heath forest, on spruce, 28.VIII.1993 coll. *Bryndina*, det. *Mukhin* (SVER(F) 50614). **Is:** Stepanova (1971).

Resinicium bicolor (Alb. & Schwein.) Parmasto

LC • FS, HB, SB, MB, NB • Cp, Fhd, Fhm, Frd, Fsm

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

P: Stepanova (1971). **Cl:** Demidova (1963); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on decorticated pine, 19.VIII.2002 *Kotiranta* 19689b; Mukhin & Ushakova (2001); Stavishenko (2006). **Bp:** Demidova (1963); Stepanova & Mukhin (1979); Sisert area, Biological station USU, yard with *Quercus* (cult.), on decorticated pine, also with *Vesiculomyces citrinus*, *Phlebiella sulphurea*, 25.VIII.2002 *Kotiranta* 19793. **PI:** Demidova (1963); Mukhin (1993); Mukhin et al. (2003). **NI:** Demidova (1963); Mukhin (1993). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of fir, 20.VIII.1947 *Stepanova* (SVER(F) 45595); ibid, on needles, 21.VIII.1947 *Stepanova* (SVER(F) 45612); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on decayed trunk of conifer, 12.VIII.2005 *Kotiranta* 20969a. **Is:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971).

Resinicium furfuraceum (Bres.) Parmasto

LC • HB, SB, MB, NB • Fhd, Fhm

On *Abies*, *Picea*, *Pinus sibirica*. Widely spread and common.

P: Stepanova (1971). **Cl:** Prigorod area, Visim Nat. Res., Galashki, mesic old-growth forest, on trunk of pine, 17.IX.1994 *Kotiranta* 11765; ibid, on Siberian pine, 18.IX.1994 *Kotiranta* 11830; Shiryayev & Stavishenko (2008). **PI:** Mukhin et al. (2003). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of fir, 21.VIII.1947 *Stepanova* (SVER(F) 45601); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of conifer, 12.VIII.2005 *Kotiranta* 20961. **Is:** Stepanova (1971).

****Resinicium pinicola*** (J. Erikss.) J. Erikss. & Hjortstam

Syn. *Mycoacia pinicola* J. Erikss.

NE • SB • Fhm

On *Pinus*.

Bp: Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on small, partly corticated pine, also with *Ceraceomyces sulphurinus*, *Phlebiella sulphurea*, *Postia leucomallella*, 27.VIII.2002 *Kotiranta 19896*.

Rigidoporus corticola (Fr.) Pouzar

Syn. *Oxyporus corticola* (Fr.) Ryvarden

LC • FS, HB, SB, MB, NB • Cp, Cshi, Fhm, Frd

Mostly on *Populus*, more seldom on *Abies*, *Betula*, *Picea*. Widely spread and common.

P: Demidova (1963); Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix caprea*, on corticated aspen, 19.VIII.2002 *Kotiranta 19692*; *ibid.*, on corticated *Populus*, 19.VIII.2002 *Kotiranta 19699*; *ibid.*, on decorticated aspen, 19.VIII.2002 *Kotiranta 19703*; *ibid.*, on dead, erect aspen, 20.VIII.2002 *Kotiranta 19740*; Kotiranta et al. (2007). **Bp:** Stavishenko (2000, 2006); Kotiranta et al. (2007); Ekaterinburg, Aviatsionnaya str., on living *Populus balsamifera* (cult.), 22.XI.2009 *Shiryayev* (SVER(F) 58749). **PI:** Mukhin et al. (2003). **NI:** Mukhin (1993); Kotiranta et al. (2007). **Nm:** Stepanova-Kartavenko (1967). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead fir, 20.VIII.1947 *Stepanova* (SVER(F) 45631). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Rigidoporus crocatus (Pat.) Ryvarden

Syn. *Poria nigrescens* Bres.

VU A4c; C2a(i) • HB, SB, MB • Fhmv

On *Abies*, *Picea*, *Betula*.

P: Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on fir, 21.VIII.2002 *Kotiranta 11797*; *ibid.*, old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on birch, 21.VIII.2002 *Kotiranta 11808 & 11815*; Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on corticated birch, 26.VIII.2002 *Kotiranta 19848*; Stavishenko (2006); Kotiranta et al. (2007); Red Book... (2008); Prigorod area, Baronskoye, old-growth *Picea*-dominated mesic forest, on fallen trunk of birch, 4.VIII.2009 *Stavishenko 701*. **Bp:** Stepanova (1971); Kotiranta et al. (2007). **PI:** Mukhin et al. (2003); Kotiranta et al. (2007); Red Book... (2008). **Kh:** Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Rigidoporus latemarginatus (E.J. Durand & Mont.) Pouzar

Syn. *Chaetoporus ambiguus* (Bres.) Bondartsev & Singer, *Oxyporus latemarginatus* (E.J. Durand & Mont.) Donk

NT C2a(i) • HB, SB • Fhv

On *Abies*.

P: Stepanova (1971). **Cl:** Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova (1971). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971).

Rigidoporus obducens (Pers.: Fr.) Pouzar

Syn. *Chaetoporus pearsonii* (Pilát) Bondartsev, *Oxyporus obducens* (Pers.) Donk

NT A2c+3c+4c; C2a(i) • FS, HB, SB • Frd, Frdv

On *Betula*, *Ulmus*, *Quercus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Chernaja Rechka, managed, mesic *Tilia*-dominated herb-rich forest, on *Ulmus*, 14.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57705). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006). **NI:** Mukhin (1993).

****Rigidoporus philadelphi*** (Parmasto) Pouzar

Syn. *Botryodontia millavensis* (Bourdot & Galzin) Duhem & H. Michel, *Oxyporus philadelphi* (Parmasto) Ryvardeen

NE • SB • Fhdv

On *Juniperus*.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, W slope of Bardym mnt. range, mixed old-growth forest of alvar type with *Picea*, *Pinus*, *Tilia*, *Juniperus*, calcareous soil, on trunk of juniper, 10.IX.2002 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57003 – part in H.K.).

Rigidoporus populinus (Schumach.: Fr.) Pouzar

Syn. *Oxyporus populinus* (Schumach.) Donk

LC • FS, HB, SB, MB, NB • Cp, Frd

Facultative parasite of *Acer*, *Alnus*, *Betula*, *Sorbus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Sargaja, on *Acer*, 3.IX.1977 *Stepanova* (SVER(F) 48350). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006); Kotiranta et al. (2007); Prigorod area, Baronskoye, managed mesic pine–aspen forest in the Chusovaya river valley, on living birch, 4.VIII.2009 *Stavishenko* 707. **Bp:** Demidova (1963); Kotiranta et al. (2007); Sisert area, Biological station USU, on *Betula* and grey alder, 30.VI.2009 *Shiryayev* (SVER(F) 57860). **Kh:** Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Ivdel area, Ous, on *Betula*, 7.VIII.2007 *Shiryayev* (SVER(F) 57065).

Rigidoporus ravidus (Fr.) PouzarSyn. *Oxyporus ravidus* (Fr.) Bondartsev & Singer**LC** • HB, SB, MB • FrvOn *Populus*.**PI:** Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971).***Rigidoporus ulmarius*** (Sowerby: Fr.) ImazekiSyn. *Fomitopsis ulmaria* (Sowerby) Bondartsev & Singer**LC** • HB • Cp, Frdv, SlsOn *Ulmus*.**P:** Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», 4.IX.1979 coll. *Stepanova*, det. *Mukhin* (SVER(F) 50479); *ibid.*, Sarana, 24.VIII.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 52031).**S*****Sarcodon fennicus*** (P. Karst.) P. Karst.**NTA4c; D1** • HB, SB • Fhdv, FhmOn soil in *Abies* & *Picea* forests.**Cl:** Shiryayev & Stavishenko (2008); Shiryayev (2008c). **Bp:** Stepanova (1971). **PI:** Shiryayev (2007c, 2008c).***Sarcodon imbricatus*** (L.: Fr.) P. Karst.**LC** • HB, SB, MB • Fhm, FhmvOn soil in *Abies* & *Picea* forests.**P:** Shiryayev (2008c). **Cl:** Shiryayev & Stavishenko (2008); Shiryayev (2008c). **Bp:** Stepanova (1971); Shiryayev (2008c). **PI:** Shiryayev (2007c, 2008c). **Kh:** Shiryayev (2008c). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2008c).***Sarcodon leucopus*** (Pers.) Maas Geest. & Nannf.Syn. *Sarcodon laevigatus* (Sw.) P. Karst.**NT B2ab(iii); C2a(i)** • HB, SB, MB • Fhmv

On soil in coniferous forests.

P: Shiryayev (2008c). **Cl:** Shiryayev (2008c). **Bp:** Stepanova (1971); Shiryayev (2008c).

Is: Stepanova-Kartavenko (1967); Stepanova (1971). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2007c, 2008c). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Shiryaev (2008c).

Sarcodon lundellii Maas Geest. & Nannf.

Syn. *Sarcodon badium* Pers. ss. auct., *Sarcodon subsquamosus* (Batsch) P. Karst.

EN A2c+3c; C1+2a(i) • **SB** • Frdv

On soil in *Pinus* forests.

Cl: Shiryaev (2008c). **Bp:** Stepanova (1971).

Sarcodon scabripes (Peck) Banker

DD • HB, SB • Fhdv

On soil in *Pinus* forests.

Cl: Shiryaev (2008c). **Bp:** Stepanova (1971). **PI:** Shiryaev (2008c).

Sarcodon scabrosus (Fr.) P. Karst.

NT B1+2ab(iii); C2a(i) • **SB** • Fhdv

On soil in *Abies* & *Picea* forests.

Cl: Shiryaev & Stavishenko (2008); Shiryaev (2008c).

Sarcodon squamosus (Schaeff.) Quel.

LC • FS, HB, SB • Fhd, Fhdv

On soil in *Pinus* forests.

P: Shiryaev (2008c). **Cl:** Shiryaev (2008c). **Bp:** Shiryaev (2008c). **PI:** Stepanova (1971); Shiryaev (2007c, 2008c).

Sarcodon versipellis (Fr.) Quel.

VU A2c+3c+4c; D1 • HB, SB • Fhmv

On rich soils.

Cl: Shiryaev (2008c). **PI:** Shiryaev (2007c, 2008c).

Sarcodontia crocea (Schwein.) Kotl.

EN B2ab(iv); C2a(i); D1 • HB, SB • Cp

On *Malus*.

P: Krasnoufimsk area, Sarana village park, 6.IX.1978 coll. Stepanova, det. *Almanaite* (SVER(F) 49496). **Cl:** Nizhniye Sergi park, 5.IX.2001 coll. Shiryaev, det. *Mukhin* (SVER(F) 53295). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979).

Sarcoporia polyspora P. Karst.

Syn. *Parmastomyces mollissimus* (Maire) Pouzar, *Polyporus transmutans* Overh.

VU B2c(ii,iii); D1 • SB, MB • Fhd, Fhm

On *Abies*, *Picea*, *Pinus*.

Cl: Kotiranta et al. (2007); Shalya area, Shigaevo, mesic old-growth heath forest, on fir, 5.VIII.2007 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 55579). **Bp:** Stavishenko (2006); Kotiranta et al. (2007). **Kh:** Stavishenko (2003).

Schizophyllum amplum (Lév.) Nakasone

Syn. *Cytidia flocculenta* (Fr.) Höhn. & Litsch., *Auriculariopsis ampla* (Lév.) Maire

LC • FS, HB, SB, MB • Frd

On *Populus* & *Salix*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev & Stavishenko (2008). **Bp:** Ekaterinburg, Botanical Garden RAS, *Populus balsamifera* (cult.), 23.X.2008 *Almanaite* (SVER(F) 55848). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971).

Schizophyllum commune Fr.

LC • FS, HB, SB, MB, NB • Cp, Cr, Cshi, Fh, Fr, Fs

On *Abies*, *Acer*, *Alnus*, *Betula*, *Juglans*, *Malus*, *Picea*, *Populus*, *Tilia*, *Quercus*. Widely spread and common.

P: Krasnoufimsk city park, on *Quercus*, 1.IX.1999 *Golumbievskaya* (SVER(F) 52385). **Cl:** Marina (2006). **Bp:** Stavishenko (2000, 2006); Ekaterinburg, Botanical Garden RAS, on *Juglans mandshurica* (cult.), 10.X.2009 *Kotiranta* (SVER(F) 58849). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **ST:** Verkhoturiye, on *Alnus*, 29.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 49350). **Is:** Shiryayev (2008e).

Scopuloides rimosa (Cooke) Julich

Syn. *Scopuloides hydnoides* (Cooke & Masee) Hjortstam & Ryvarden

LC • FS, HB, SB, MB • Cp, Fhm, Frd

On *Populus* & *Salix*. Widely spread.

P: Achit area, Korzunovka, on aspen, 29.VIII.1977 coll. *Stepanova*, det. *Mukhin* (SVER(F) 47249). **Cl:** Solovjev (1946); Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on decorticated aspen branch, 20.VIII.2002 *Kotiranta 19724*; *ibid.*, on decorticated aspen branch, together with *Hyphodontia pallidula*, 20.VIII.2002 *Kotiranta 19731*; *ibid.*, on decorticated aspen, 20.VIII.2002 *Kotiranta*

19738. **Bp:** Stepanova & Mukhin (1979). **PI:** Mukhin (1993); Mukhin et al. (2003). **Is:** Ivdel area, Polunochnoje, on *Salix*, 18.VIII.2005 *Kotiranta* (SVER(F) 56793).

Scytinostroma galactinum (Fr.) Donk

LC • FS, HB, SB • Fhm, Frd

On *Populus*, *Betula*, *Abies*.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, on decorated aspen branch, together with *Ceriporiopsis aneirina*, 19.VIII.2002 *Kotiranta* 19705; Shiryaev & Stavishenko (2008). **Bp:** Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on birch branch, 27.VIII.2002 *Kotiranta* 19873. **NI:** Mukhin (1993).

Scytinostroma odoratum (Fr.) Donk

Syn. *Corticium odoratum* (Fr.) Bourdot & Galzin

NT C1+2a(i) • SB, MB • Fhm

On coniferous trees.

Cl: Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, on *Abies*, 5.IX.1969 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 49478). **Kh:** Stepanova (1971). **Is:** Stepanova (1971); Severouralsk area, Bajanovka, on *Picea*, 6.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 55200).

Scytinostroma portentosum (Berk. & M.A. Curtis) Donk

LC • FS, HB, SB, MB • Frd, Frm, Fsm

On deciduous trees.

P: Krasnoufimsk area, Sargaja, dry herb-rich forest, slope to Ufa river, on *Ulmus*, 28.VIII.1969 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 48619). **Cl:** Shiryaev & Stavishenko (2008). **Kh:** Stepanova (1971). **NI:** Stepanova (1971).

Scytinostromella heterogenea (Bourdot & Galzin) Parmasto

Syn. *Peniophora heterogenea* Bourdot & Galzin

LC • SB, MB • Fhm

On *Abies* & *Picea*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Sarana, on *Abies*, 30.VIII.1999 coll. *Golumbievskaya*, det. *Stavishenko* (SVER(F) 50785). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Severouralsk area, Bajanovka, mesic old-growth heath forest, on *Picea*, 6.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 55945).

Scytinostromella nannfeldtii (J. Erikss.) G.W. Freeman & R.H. Petersen

NE • SB • Fhm

On *Picea*.

Cl: Shiryayev & Stavishenko (2008).

****Sebacina epigaea*** (Berk. & Broome) Neuhoff

LC • SB • Fhm, Fhmv

On litter, decomposed wood and ferns.

Bp: Polevskoy area, W slope of Azov mnt., managed *Betula*–*Populus*-dominated mesic heath forest, on litter and ferns, 27.X.2008 *Almanaite* (SVER(F) 42528).

Ks: Kushva area, Kedrovka mnt., old-growth mesic *Abies*-dominated heath forest, on *Matteuccia*, 4.IX.1974 *Sirko* (SVER(F) 41272).

Sebacina incrustans (Pers. : Fr.) Tul.

LC • FS, HB, SB, MB • Fhm, Frd

On litter, grasses, decayed wood. Widely spread.

P: Krasnoufimsk area, Chernaja Rechka, managed *Abies*-dominated herb-rich forest, at the base of grasses and litter, 14.VIII.2006 *Shiryayev* (SVER(F) 42869).

Cl: Stepanova (1971); Nizhneserginsk area, Bazhukovo, on decayed wood and litter, 25.X.2008 *Almanaite* (SVER(F) 42904). **Bp:** Biological station USU, on grasses and lying wood, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 42595).

PI: Tugulym area, «Pripyshminsk Bory» Nat. Park, on grasses and herbs, 20.VIII.1968 *Sirko* (SVER(F) 41058). **NI:** Irbit area, Yelan', on grasses and decaying wood, 18.VIII.1969 *Stepanova* (SVER(F) 41167).

Ks: Kachkanar mnt., on grasses, 13.VIII.1995 *Bryzgalov* (SVER(F) 42198). **Nm:** Verkhoturkiye, Vostochny, on litter and grasses, 13.VIII.1963 coll. *Storozheva*, det. *Almanaite* (SVER(F) 40531).

Is: Ivdel area, Vizhaj, on grasses and litter, 18.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 42573).

Serpula himantioides (Fr.: Fr.) P. Karst.

LC • FS, HB, SB, MB, NB • Cp, Fhm, Frd

Mostly on coniferous trees. Widely spread.

Cl: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Nizhniye Sergi town, old woody construction, 10.VII.1980 *Stepanova* (SVER(F) 50953). **Bp:**

Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Ekaterinburg, Uralmash, private garden, 21.X.2000 coll. *Petrovsky*, det. *Ushakova* (SVER(F) 52797). **Ks:** Stepanova-Kartavenko (1967). **Nm:** Stepanova-Kartavenko (1967);

Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:**

Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel town, old woody construction, 1.IX.1995 det. *Bryzgalov* (SVER(F) 51432).

Serpula lacrymans (Wulfen) J. Schröt.

LC • FS, HB, SB, MB, NB, SA, AL • Cp

On coniferous trees. Widely spread in woody constructions.

P: Demidova (1963). **KK:** Demidova (1963). **Cl:** Demidova (1963). **Bp:** Demidova (1963); Ekaterinburg, garage, on woody floor, 11.VII.2006 *Mukhin* (SVER(F) 57423). **PI:** Demidova (1963). **NI:** Irbit area, Zaikovo, old woody constructions, 3.IX.1979 *Stepanova* (SVER(F) 49941). **Ks:** Kachkanar, old house, on woody floor and walls, 31.VIII.2004 det. *Stavishenko* (SVER(F) 56267). **Nm:** Demidova (1963). **ST:** Demidova (1963). **PT:** Gari area, Zykova, 28.VIII.1966 coll. *Sirko*, det. *Mukhin* (SVER(F) 47963). **Kh:** Karpinsk area, Kytlym, on woody constructions, 3.VIII.1973 coll. *Stepanova*, det. *Ushakova* (SVER(F) 48886) **Is:** Demidova (1963). **OU:** Ivdel area, Pelym, 25.VIII.1980 *Stepanova* (SVER(F) 49243).

***Sistotrema brinkmannii** (Bres.) J. Erikss.

LC • FS, HB, SB, MB, NB • Cshi, Fhd, Fhm, Frd

On deciduous & coniferous trees, also on litter. Widely spread and common.

P: Achit area, Korzunovka, on fallen branches and litter in old-growth *Abies*-dominated mesic forest, 28.VIII.1960 coll. *Stepanova*, det. *Almanaite* (SVER(F) 46574). **Cl:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix caprea*, on corticated birch branch, 19.VIII.2002 *Kotiranta* 19682. **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on decorticated birch, 25.VIII.2002 *Kotiranta* 19781; *ibid.*, *Pinus*-dominated, relatively poor, fairly old forest, on dead *Daedaleopsis tricolor*/*Betula* branch (corticated), together with *Antrodiella pallescens*, *Fomes fomentarius*, 27.VIII.2002 *Kotiranta* 19858; *ibid.*, strongly human influenced grass-herb forest, on dry *Quercus* (cult.) branch at 2 m. height, 27.VIII.2002 *Kotiranta* 19861; *ibid.*, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on corticated, partly burned birch, on dead *Daedaleopsis tricolor* also *Stereum subtomentosum*, 27.VIII.2002 *Kotiranta* 19880. **Ks:** Kushva area, Kedrovka mnt., managed *Pinus*-dominated mesic forest, on branch of *Alnus*, 7.VIII.2004 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 54059). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on Siberian pine, 17.VIII.1976 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 49600). **Is:** Severouralsk area, Bajanovka, on fallen branches of *Betula* and *Picea*, 6.VIII.2005 *Mukhin* & *Kotiranta* (SVER(F) 55052).

***Sistotrema confluens** Pers.

LC • HB, SB • Fhmv, Frdv

On soil & litter.

P: Krasnoufimsk area, Chernaja Rechka, old-growth *Abies*-dominated mesic herb-rich forest, on soil and litter, 14.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57098). **Bp:** Nevjansk area, southern coast of Tavatuy Lake, mesic pine-dominated heath forest with *Tilia*, *Juniperus*, on soil, 4.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57004 – part in H.K.).

Sistotrema coroniferum (Höhn. & Litsch.) Donk

LC • HB, SB • Fhmv, Fr

On *Picea* & *Pinus*.

CI: Shiryaev & Stavishenko (2008). PI: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003).

****Sistotrema dennisii*** Malençon

NE • SB • Fhmv

On *Pinus*.CI: Shalya area, Shigaevo, mesic old-growth *Pinus*-dominated heath forest with *Tilia*, *Ulmus*, *Sorbus*, *Frangula*, on pine, 4.IX.2000 coll. Shiryaev, det. Kotiranta (SVER(F) 52769).****Sistotrema diademiferum*** (Bourdot & Galzin) Donk

LC • FS, HB, SB • Fhm, Frdv

On conifers and deciduous trees.

P: Krasnoufimsk area, Chernaja Rechka, mesic old-growth *Abies*-dominated herb-rich forest, on fir, 15.VIII.2006 coll. Shiryaev, det. Kotiranta (SVER(F) 57080).CI: Shalya area, Sylva, on *Abies*, 28.VIII.1967 coll. Kazantseva, det. Almanaita (SVER(F) 48850). Bp: Sisert area, Biological station USU, mesic heath forest, on *Salix caprea*, 27.VIII.2006 Shiryaev & Kotiranta (SVER(F) 57947). Nm: Kachkanar area, Kachkanar mnt., on *Salix caprea*, 30.VIII.1995 coll. Bryzgalov, det. Almanaita (SVER(F) 51630).****Sistotrema muscicola*** (Pers.) Lundell

LC • HB, SB, MB, NB, SA • Fhm, Fhmv, Frd

On litter and decaying wood.

P: Krasnoufimsk area, Chernaja Rechka, mesic old-growth *Tilia*-dominated heath forest, on litter and fallen branches, 14.VIII.2006 coll. Shiryaev, det. Almanaita (SVER(F) 56607).CI: Nizhneserginsk area, Mikhailovsk Zavod, mixed forest with *Abies*, *Pinus*, *Tilia*, *Populus*, *Betula*, *Sorbus*, *Rhamnus*, *Vaccinium myrtillus*, on pine trunk, 2.IX.1957 coll. Stepanova, det. Kotiranta (SVER(F) 57001 – part in H.K.). Kh: Severouralsk area, Yelovy Uval mnt. range, subalpine belt, on fallen branches of birch and mosses, 12.VIII.1946 coll. Soloujev, det. Parmasto (SVER(F) 52879). Is: Severouralsk area, Bajanovka, managed herb-rich heath forest, on partly buried branch of *Picea* and litter, 6.VIII.2005 Mukhin & Kotiranta (SVER(F) 56050).****Sistotrema oblongisporum*** M. P. Christ. & Hauerslev

LC • SB • Cp

On *Pinus* & *Quercus*.

Bp: Sisert area, Biological station USU, yard with *Quercus* (cult.), on corticated oak branch together with *Peniophora quercina*, *Stereum hirsutum*, 25.VIII.2002 *Kotiranta 19790*; *ibid.*, on partly corticated pine branches, together with *Stereum sanguinolentum*, 26.VIII.2002 *Kotiranta 19795*.

Sistotrema raduloides (P. Karst.) Donk

LC • FS, HB, SB, MB • Fhmv, Fr

On deciduous wood.

P: Stepanova (1971). **Cl:** Shalya area, Shigaevo, mesic old-growth heath forest, on aspen debris, 29.VIII.1997 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 50669) **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead birch, 21.VIII.1947 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 47735). **Is:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Ekvachakhl mnt., on fallen trunk of *Alnus incana* in *Salix*-dominated flooded herb-rich shrub, 7.VIII.2005 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57024).

****Sistotrema resinicystidium*** Hallenb.

NE • MB • Fhmv

On *Picea*.

Kh: Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of spruce, 12.VIII.2005 *Kotiranta 20819*.

****Sistotrema sernanderi*** (Litsch.) Donk

LC • HB, SB, MB • Fhmv, Frd

On wood, debris and dead fruitbodies of polypores.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on *Quercus*, 2.IX.1976 coll. *Stepanova*, det. *Almanaite* (SVER(F) 48243). **Cl:** Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, on *Betula* and fruitbodies of *Fomes fomentarius*, 6.IX.1970 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 47595). **Bp:** Sisert area, Biological station USU, managed mesic herb-rich forest, on *Ganoderma applanatum*, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 57214). **Is:** Severouralsk area, Bajanovka, mesic old-growth *Picea*-dominated heath forest, on *Betula* and fruitbodies of *Fomes fomentarius*, 6.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 56936).

****Sistotremastrum niveocreameum*** (Höhn. & Litsch.) J. Erikss.

LC • HB • Frdv

On *Picea*.

P: Krasnoufimsk area, Chernaya Rechka, mesic mixed old-growth herb-rich forest with *Pinus*, *Picea*, *Tilia*, *Quercus*, *Sorbus*, *Rhamnus*, *Corylus*, *Euonymus*, on fallen branch of spruce, 6.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57026).

***Sistotremastrum suecicum** Litsch. ex J. Erikss.

LC • HB, SB, MB • Fhd

On coniferous trees.

P: Achit area, Korzunovka, on *Abies*, 27.VIII.1966 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 49000). **Bp:** Nevjansk area, Tavatuy lake, on *Pinus*, 10.IX.1978 coll. *Stepanova*, det. *Almanaite* (SVER(F) 49656). **Is:** Ivdel area, Vizhaj, pine-dominated dry heath forest, on Siberian pine, 18.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 55560).

Sistotremella perpusilla Hjortstam

LC • SB • Cshi

On *Picea*.

Cl: *Shiryayev* & *Stavishenko* (2008).

Skeletocutis amorphia (Fr.) Kotl. & Pouzar

LC • HB, SB, MB, NB • Fhd, Fhm, Frd, Sff

On *Abies*, *Picea*, *Pinus*. Widely spread and common.

Cl: *Stepanova-Kartavenko* (1967); *Stepanova* (1971); Prigorod area, Visim Nat. Res., Galashki, mesic old-growth forest, on trunk of *Pinus*, 18.IX.1994 *Kotiranta* 11764; Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, corticated spruce, also *Trichaptum abietinum*, *Hyphodontia subulata*, *Fomitopsis pinicola*, 26.VIII.2002 *Kotiranta* 19817; *Kotiranta* et al. (2007). **Bp:** *Stepanova* (1971); *Stepanova* & *Mukhin* (1979); *Mukhin* & *Ushakova* (2001); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on small, hard, decorticated pine, together with *Trichaptum fuscoviolaceum*, *Hyphodontia rimosissima*, 25.VIII.2002 *Kotiranta* 19752; *Stavishenko* (2006); *Kotiranta* et al. (2007). **PI:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Mukhin* et al. (2003); *Kotiranta* et al. (2007). **NI:** *Mukhin* (1993). **Kh:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Stavishenko* (2003). **Is:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **ST:** *Stepanova-Kartavenko* (1967). **OU:** *Stepanova* (1971); Ivdel area, Ous, on *Pinus sibirica*, 7.VIII.2007 *Shiryayev* (SVER(F) 58781).

***Skeletocutis biguttulata** (Romell) Niemelä

LC • SB • Fhmv

On *Abies*.

Cl: Nizhneserginsk area, 7 km south of Nizhniye Sergi town, mesic old-growth

Abies-dominated heath forest, on fallen trunk of fir, 7.IX.2004 coll. *Ushakova*, det. *Kotiranta* (SVER(F) 56557).

Skeletocutis carneogrisea A. David

LC • HB, SB, MB • Fhmv, Frd

On *Abies*, *Picea*, *Pinus*.

P: Achit area, Korzunovka, on *Abies*, 3.IX.1970 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 49090). **CI:** Shalya area, Shigaev, mesic old-growth heath forest, on *Abies*, 6.VIII.2007 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57201). **Bp:** Sisert area, Biological station USU, mesic, partly relatively luxuriant old-growth *Pinus*-dominated forest, on fallen pine/dead *Trichaptum fuscoviolaceum*, 13.VIII.1993 *Kotiranta* 11002; *ibid.*, on fallen pine, 13.VIII.1993 *Kotiranta* 11016; *Kotiranta et al.* (2007). **PI:** Mukhin *et al.* (2003); *Kotiranta et al.* (2007). **Is:** Ivdel area, Polunochnoje, on spruce, 18.VIII.2005 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56422).

Skeletocutis kuehneri A. David

LC • HB, SB • Fhd

On *Abies* & *Pinus*.

P: Krasnoufimsk area, Sarana, on *Abies*, 30.VIII.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 54664). **Bp:** Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, fallen pine, also *Trechispora lunata*, 13.VIII.1993 *Kotiranta* 10992a; *ibid.*, on decorticated small pine, together *Anomoporia vesiculosa*, 3.VIII.1995 *Kotiranta* 11965; *ibid.*, decorticated small pine, together with *Botryobasidium subcoronatum*, 25.VIII.2002 *Kotiranta* 19755; *Kotiranta et al.* (2007).

****Skeletocutis lilacina*** A. David & Jean Keller

NT A3c; C2a(i); D1 • MB, NB • Fhmv

On *Picea*.

Kh: Ivdel area, eastern slope of Chistop mnt., close to Malaya Toshemka river, old-growth mixed forest with *Picea*, *Pinus*, *Betula pendula*, *Sorbus aucuparia*, together with *Fomitopsis rosea*, *Antrodia serialis*, on trunk of spruce, 15.VIII.1945 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 57005 – part in H.K.); Severouralsk area, Kazansky Kamen mnt. range, on *Picea*, 10.VIII.2005 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 56549).

Skeletocutis nivea (Jungh.) Jean Keller

Syn. *Tyromyces semipileatus* (Peck) Murrill

LC • FS, HB, SB, MB • Cshi, Frd, Frdv

On *Alnus*, *Betula*, *Populus*, *Salix*, *Sorbus*, *Ulmus*.

P: Stepanova (1971); Krasnoufimsk area, Sargaja, on *Ulmus*, 26.VIII.1967 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 48860). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006). **Bp:** Stepanova & Mukhin (1979). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Severouralsk area, Bajanovka, on *Salix caprea*, 6.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 56305).

Skeletocutis odora (Peck ex Sacc.) Ginns

Syn. *Ceriporia gilvella* (Pilát) Bondartsev, *Skeletocutis tschulymica* (Pilát) Jean Keller

1NT A1c • HB, SB, MB, NB • Fhmv, Frd

On *Abies*, *Picea*, *Pinus*, *Populus*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on corticated fir, 26.VIII.2002 *Kotiranta 19849*; Prigorod area, Visim Nat. Res., Galashki, mesic old-growth forest, on fallen spruce, 18.IX.1994 *Kotiranta 11773*; Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Kotiranta et al. (2007). **PI:** Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Stepanova (1971); Mukhin (1993). **Kh:** Stepanova (1971); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971).

Skeletocutis stellae (Pilát) Jean Keller

NT A3c • HB, SB, MB • Fhmv

On *Picea* & *Pinus*.

P: Achit area, Korzunovka, on *Picea*, 27.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 47096). **Cl:** Stavishenko (2006). **PI:** Mukhin (1993). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Molebny Kamen mnt. range, mesic old-growth heath forest, on Siberian pine, 12.VIII.2005 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 54921).

Skeletocutis subincarnata (Peck.) Jean Keller

LC • HB, SB • Fhm, Fhmv

On *Abies* & *Pinus*.

P: Stepanova-Kartavenko (1967); Kotiranta et al. (2007). **Cl:** Kotiranta et al. (2007); Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, mesic old-growth heath forest, on fir, 29.IX.2009 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57209). **Bp:** Stepanova-Kartavenko (1967); Stepanova & Mukhin (1979). **PI:** Mukhin et al. (2003).

Skeletocutis uralensis (Pilát) Kotl. & Pouzar

LC • SB, MB • Fhm

On *Picea*.

Cl: Stavishenko (2006). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Sparassis crispa Wulfen: Fr.

²**EN** C1+2a(i); D1 • HB, SB, MB • Fhmv

Root-parasite of old coniferous trees. Widely spread, but very rare.

P: Shiryayev (2006a). **Cl:** Shiryayev (2006a); Shiryayev & Stavishenko (2008). **Bp:** Red Book... (1996); Nevjansk area, southern coast of Tavatuy lake, mesic virgin heath forest with *Pinus*, *Larix*, *Tilia*, *Juniperus*, on larch roots, 30.IX.2001 *Shiryayev* (LE 225528); Shiryayev (2006a, 2007b, 2008f). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **PT:** Shiryayev (2006a). **Kh:** Stepanova (1971); Shiryayev (2006a). **Is:** Shiryayev (2006a). **OU:** Shiryayev (2006a).

Sphaerobasidium minutum (J. Erikss.) Oberw. ex Jülich

LC • SB • Fhm, Fhmv

On *Picea*.

Cl: Shiryayev & Stavishenko (2008). **Bp:** Nevjansk area, S coast of Tavatuy lake, old-growth *Picea*-dominated mesic heath forest, on *Pinus*, 6.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 56566).

Spongipellis delectans (Peck) Murrill

Syn. *Spongipellis litschaueri* Lohwag

NT A2c+3c+4c; C1+2a(i) • HB, SB • Fhdv, Frdv

On *Quercus*, *Tilia*, *Ulmus*.

P: Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 10.IX.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 54018). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1969, 1971); Kotiranta et al. (2007). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1969, 1971).

Spongipellis fissilis (Berk. & M.A. Curtis) Murrill

Syn. *Aurantiporus fissilis* (Berk. & M.A. Curtis) H. Jahn

VU B2ab(iii); D1 • HB, SB • Frd, Frdv

On *Acer*, *Populus*, *Tilia*, *Ulmus*.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, dry herb-rich forest on calcareous slope to Serga river valley, on *Ulmus*, 29.IX.2009 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 58848). **Bp:** Stepanova (1971). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Tilia*, 1.IX.1969 coll. *Sirko*, det. *Stavishenko* (SVER(F) 50734).

Spongipellis pachyodon (Pers.) Kotlaba & Pouzar

RE • FS, HB • Cp, Fhv

On *Fraxinus* & *Quercus*. Not recorded since 1960.**P:** Stepanova (1971) – specimen collected in 1955 (SVER(F) 47334). **KK:** Arti area, Arti, in park on *Fraxinus*, 14.IX.1960 coll. *Stepanova*, det. *Parmasto* (SVER(F) 47746).***Spongipellis spumea*** (Sowerby: Fr.) Pat.

VU D1+2 • HB, SB • Fhmv

On *Tilia*, *Ulmus*, *Quercus*.**P:** Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 29.VIII.1968 coll. *Kazantseva*, det. *Mukhin* (SVER(F) 49678). **PI:** Mukhin (1993). **NI:** Mukhin (1993).***Spongiporus undosus*** (Peck) A. DavidSyn. *Postia undosa* (Peck) Jülich

LC • HB, SB, MB • Fhm, Frd

On *Abies* & *Picea*.**P:** Stepanova (1971); Achit area, Korzunovka, on *Abies*, 5.IX.1970 coll. *Kazantseva*, det. *Mukhin* (SVER(F) 48009). **CI:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2006). **Bp:** Demidova (1965). **PI:** Mukhin et al. (2003); Kotiranta et al. (2007). **Kh:** Stavishenko (2003).***Steccherinum collabens*** (Fr.) VesterholtSyn. *Poria rixosa* (P. Karst.) P. Karst., *Junghuhnia collabens* (Fr.) Ryvarden

LC • HB, SB, MB • Fhm, Fhmv

On *Abies*, *Pinus*, *Picea*. Widely spread but not common.**P:** Stepanova (1971); Krasnoufimsk area, Sarana, on *Abies*, 30.VIII.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 51142). **CI:** Stepanova-Kartavenko, 1967; Stepanova (1971); Prigorod area, Baronskoye, mesic old-growth *Picea*-dominated heath forest, on fallen fir and pine, 4.VIII.2009 *Stavishenko 702 & 703*. **Bp:** Stepanova (1971); Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **ST:** Stepanova (1971). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2000). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Severouralsk area, Bajanovka, on Siberian pine, 6.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 55693).***Steccherinum fimbriatum*** (Pers.: Fr.) J. Erikss.

LC • FS, HB, SB, MB, NB • Fhm, Frd, Slf

On *Alnus*, *Betula*, *Corylus*, *Populus*, *Salix*, *Sorbus*, *Tilia*. Widely spread and common.

P: Krasnoufimsk area, Sargaja, on *Corylus*, 30.VIII.1970 coll. *Kazantseva*, det. *Stavishenko* (SVER(F) 49515); *ibid.*, Chernaja rechka, on *Tilia*, 14.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 57568). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix*, on decorticated aspen, also *Steccherinum ochraceum*, *Botryobasidium laeve*, *Fomitopsis rosea*, *Antrodia pulvinascens*, 19.VIII.2002 *Kotiranta* 19672; *ibid.*, on *Salix caprea*, 19.VIII.2002 *Kotiranta* 19707a. **Bp:** Sisert area, Biological station USU, on *Betula* and dead fruitbodies of *Ganoderma applanatum*, 27.VIII.2006 *Kotiranta* (SVER(F) 56818). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on *Alnus*, 18.VIII.1976 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 47578). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Severouralsk area, Bajanovka, on *Salix*, 6.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 56427).

****Steccherinum lacerum*** (P. Karst.) Kotir. & Saaren.

Syn. *Junghuhnia lacera* (P. Karst.) Niemelä & Kinnunen, *Steccherinum separabilinum* (Pouzar) Vesterholt

LC • SB, MB • Frd

On *Acer*, *Betula*, *Populus*.

Cl: Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt. range, on maple, 3.IX.1970 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 48367). **Bp:** Nevjansk area, S coast of Tavatuy lake, mesic herb-rich forest, on birch, 6.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 55838). **NI:** Irbit area, Yelan', on aspen, 17.VIII.1965 coll. *Sirko*, det. *Almanaite* (SVER(F) 48352). **Is:** Ivdel area, Vizhaj, on birch, 18.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 55939).

Steccherinum laeticolor (Berk. & M.A. Curtis) Banker

NT C1+2a(i) • HB • Frdv

On *Acer* & *Tilia*.

P: Stepanova (1971); Nevjansk area, S coast of Tavatuy lake, mesic old-growth *Pinus*-dominated herb-rich forest, on *Tilia*, 20.IX.2004 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 56562).

****Steccherinum litschaueri*** (Bourdot & Galzin) J. Erikss.

LC • HB, SB • Frdv

On *Populus* & *Ulmus*.

P: Krasnoufimsk area, Sargaja, old-growth *Abies*-dominated herb-rich forest, on elm, 1.IX.1977 coll. *Stepanova*, det. *Almanaite* (SVER(F) 50497). **Cl:** Shalya area, Shigaevo, slope to Sylva river, on *Populus nigra*, 3.IX.2000 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 55679).

Steccherinum luteoalbum (P. Karst.) Vesterholt

Syn. *Chaetoporus varicolor* (P. Karst.) Parmasto, *Junhuhnia luteoalba* (P. Karst.) Ryvarden

LC • HB, SB, MB • Fh, Fhdv, Fhmv

On *Larix*, *Picea*, *Pinus*.

P: Stepanova (1971); Krasnoufimsk, Sarana, old-growth *Abies*-dominated dry heath forest, on pine, 30.VIII.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 51635).

Cl: Stepanova (1971). **Is:** Ivdel area, Bajanovka, on larch, 6.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 56597). **Ou:** Ivdel area, Ous, mesic old-growth heath forest, on Siberian pine, 10.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 56823).

Steccherinum murashkinskyi (Burt.) Maas Geest.

VU B2ab(iii); C1+2a(i) • HB, SB • Fhmv, Frd

On *Abies*, *Betula*, *Populus*.

Cl: Prigorod area, Baronskoye, mesic old-growth *Picea*-dominated heath forest, on fallen trunk of birch, 4.VIII.2009 *Stavishenko 704*. **Bp:** Nevjansk area, Tavatuy lake, on *Populus*, 19.VIII.1970 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 50335).

PI: Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993).

Steccherinum nitidum (Pers.: Fr.) Vesterholt

Syn. *Chaetoporus euporus* (P. Karst. ex Cooke) Bondartsev & Singer, *Junhuhnia nitida* (Pers.) Ryvarden

LC • FS, HB, SB, MB • Frd, Frdv

On *Abies*, *Alnus*, *Betula*, *Corylus*, *Euonymus*, *Quercus*, *Ulmus*. Widely spread.

P: Stepanova (1971); Krasnoufimsk area, Sargaja, on *Euonymus*, 30.VIII.1977 coll. *Stepanova*, det. *Almanaite* (SVER(F) 49492). **Cl:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin & Ushakova (2001); Stavishenko (2006); Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Kotiranta et al. (2007).

PI: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Mukhin (1993). **Kh:** Stepanova-Kartavenko, 1967; Stepanova (1971).

Is: Stepanova-Kartavenko (1967); Stepanova (1971). **Ou:** Stepanova-Kartavenko (1967).

Steccherinum ochraceum (Pers.) Gray

LC • FS, HB, SB, MB • Fhd, Fhm, Frd, Sif

On *Betula*, *Corylus*, *Padus*, *Populus*, *Salix*, *Quercus*, very seldom on conifers. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 4.IX.1977 coll. *Stepanova*, det. *Mukhin* (SVER(F) 49358). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim

Nat. Res., Galashki, on fallen branch of *Salix*, 17.IX.1994 *Kotiranta 11791*; *ibid.*, on *Betula*, 18.IX.1994 *Kotiranta 11807*; Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix*, on decorticated aspen, also *Botryobasidium laeve*, *Steccherinum fimbriatum*, *Fomitopsis rosea*, *Antrodia pulvinascens*, 19.VIII.2002 *Kotiranta 19671*. **Bp**: Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on aspen log, 13.VIII.1993 *Kotiranta 10988*; *ibid.*, Sisert river valley with *Populus nigra*, *Alnus*, *Padus*, *Betula*, *Salix* spp., on fallen trunk of *Padus*, 19.VIII.1995 coll. Ushakova, det. *Kotiranta* (SVER(F) 57010); Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on corticated birch, also *Fomes fomentarius*, 27.VIII.2002 *Kotiranta 19881*; Stavishenko (2000); Mukhin & Ushakova (2001); Stavishenko (2006). **PI**: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI**: Mukhin (1993). **Kh**: Stepanova (1971); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta 20871*. **Is**: Stepanova (1971); Ivdel area, Chernaja Parma mnt., on *Betula*, 19.VIII.1958 coll. Storozheva, det. *Almanaita* (SVER(F) 48457).

Steccherinum pseudozilingianum (Parmasto) Vesterholt

Syn. *Junghuhnia pseudozilingiana* (Parmasto) Ryvarden

LC • HB, SB • Frd, Frdv

On *Populus*.

PI: Mukhin (1993); Mukhin et al. (2003). **NI**: Mukhin (1993).

Steccherinum rhois (Schwein.) Hongo & Izawa

NT B2ab(iii) • SB • Fhmv

On *Betula*.

CI: Stavishenko (2003); Shiryaev & Stavishenko (2008).

****Steccherinum robustius*** (J. Erikss. & S. Lundell) J. Erikss.

VU C2a(i); D1+2 • HB • Fhdv, Fhmv

On *Quercus*, *Tilia*, *Ulmus*.

P: Krasnoufimsk area, Degtjarka, mesic old-growth heath forest with *Tilia*, *Ulmus*, *Populus*, *Betula*, *Acer*, *Corylus*, on branch of linden, 22.IX.1975 coll. Sirko, det. *Kotiranta* (SVER(F) 57000). **CI**: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, dry old-growth heath forest with *Ulmus*, *Sorbus*, *Rhamnus*, on fallen trunk of elm, 24.IX.2005 coll. Shiryaev, det. *Kotiranta* (SVER(F) 57009).

****Steccherinum subcrinale*** (Peck) Ryvarden

Syn. *Mycoleptodon kavinae* Pilát

NE • **SB** • **Frd**

On *Populus*.

Cl: Shalya area, Shigaevo, mesic herb-rich forest with *Abies*, *Pinus*, *Tilia*, *Populus*, *Betula*, *Sorbus*, *Rhamnus*, on fallen trunk of aspen, 30.VIII.1997 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57027).

Stereum gausapatum (Fr.) Fr.

LC • **FS**, **HB**, **SB** • **Cp**, **Fhd**, **Frd**

On *Quercus*.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on corticated branch of oak, 19.VIII.1999 coll. *Golumbievskaya*, det. *Stavishenko* (SVER(F) 52181); ibid Chernaya rechka, on oak, 15.VIII.2006 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 55971). **KK:** Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971).

Stereum hirsutum (Willd.) Pers.

LC • **FS**, **HB**, **SB**, **MB**, **NB**, **SA**, **AL** • **Cp**, **Fad**, **Fhd**, **Fhm**, **Frd**, **Fhm**, **Fsm**, **Slf**

On *Alnus*, *Betula*, *Populus*, *Salix*, very rarely on *Pinus*. Widely spread and common.

P: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus* sp., *Padus*, *Pinus*, *Salix*, on birch branch, 19.VIII.2002 *Kotiranta* 19680; Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on corticated birch, also *Lenzites betulinus*, 26.VIII.2002 *Kotiranta* 19814. **Bp:** Demidova (1963); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, firewood in pile, on birch, 18.IX.1994 *Kotiranta* 11806; Sisert area, Biological station USU, *Pinus*-dominated, partly relatively, luxuriant, fairly old forest, on birch, 13.VIII.1993 *Kotiranta* 10984; ibid., yard, on corticated oak (cult.) branch, together with *Sistotrema oblongisporum*, *Peniophora quercina*, 25.VIII.2002 *Kotiranta* 19791; Stavishenko (2000, 2006); Ekaterinburg, Botanical Garden RAS, on fallen branch of *Populus balsamiferum*, 15.X.2008 *Shiryayev* (SVER(F) 56341). **PI:** Mukhin (1993); Mukhin et al. (2003). **NI:** Demidova (1963); Mukhin (1993). **Kh:** Stepanova-Kartavenko (1967); Stepanova (1971); Stavishenko (2003). **Is:** Stepanova (1971). **OU:** Stepanova-Kartavenko (1967); Stepanova (1971).

Stereum rugosum Pers.

LC • **FS**, **HB**, **SB**, **MB**, **NB**, **SA**, **AL** • **Cp**, **Cshi**, **Fam**, **Fhm**, **Frd**, **Fsm**

On deciduous trees. Widely spread and common.

P: Achit area, Korzunovka, on *Alnus*, 19.VIII.1960 coll. *Stepanova*, det. *Mukhin*

(SVER(F) 47969). **Cl:** Stepanova (1971); Shalya area, Shigaev, on *Tilia*, 3.IX.2000 *Shiryayev* (SVER(F) 52675). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, on *Padus*, 6.VI.2008 *Mukhin* (SVER(F) 57230). **NI:** Mukhin (1993). **Ks:** Kushva area, Kedrovka mnt., on *Salix*, 18.VIII.1970 *Kazantseva* (SVER(F) 50606). **PT:** Verkhoturiye, Vostochny, on aspen, VIII.1963 coll. *Storozheva*, det. *Shiryayev* (SVER(F) 49867). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., «Sukhoj Sharp», on *Padus*, 20.VIII.1963 coll. *Stepanova*, det. *Mukhin* (SVER(F) 48832). **Is:** Severouralsk area, Bajanovka, on *Betula*, 6.VIII.2005 *Knudsen & Mukhin* (SVER(F) 57078). **OU:** Ivdel area, Ous, on *Salix*, 7.VIII.2007 *Shiryayev* (SVER(F) 57612).

Stereum sanguinolentum (Alb. & Schwein.) Fr.

LC • FS, HB, SB, MB, NB, SA, AL • Fhm, Frd

On *Abies*, *Larix*, *Picea*, *Pinus* spp. Widely spread and common.

P: Kartavenko (1960). **Cl:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Mikhailovsk Zavod», W slope of Bardym mnt. range, on fallen *Pinus*, with the parasite *Tremella encephala*, 12.IX.1972 *Stepanova* (SVER(F) 47360). **Bp:** Demidova (1963), Stepanova & Mukhin (1979); Prigorod area, Visim Nat. Res., Galashki, on trunk of *Abies*, 17.IX.1994 *Kotiranta 11799*; Stavishenko (2000, 2006). **PI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **ST:** Demidova (1963). **PT:** Demidova (1963). **Kh:** Stepanova (1971); Stepanova-Kartavenko (1967); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 12.VIII.2005 *Kotiranta 20941*; Karpinsk area, Kazansky Kamen mnt. range, eastern slope, old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of Siberian pine, with *Tremella encephala*, 20.VIII.1947 *Stepanova* (SVER(F) 45684); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971). **OU:** Demidova (1963).

Stereum subtomentosum Pouzar

LC • FS, HB, SB, MB, NB • Cp, Fhm, Frd

On *Alnus*, seldom on *Betula*.

Cl: Krasnoufimsk area, Sargaja, on *Alnus glutinosa*, 26.VIII.1970 *Kazantseva* (SVER(F) 49018). **Bp:** Stavishenko (2000, 2006); Mukhin & Ushakova (2001); Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on corticated, partly burned birch, also *Sistotrema brinkmannii*, *Daedaleopsis tricolor*, 27.VIII.2002 *Kotiranta 19879*. **NI:** Irbit area, Zaikovo, on *Alnus*, 10.IX.1999 *Shiryayev* (SVER(F) 50881). **Kh:** Stavishenko (2003). **Is:** Severouralsk area, Bajanovka, on *Alnus*, 6.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 55863).

***Stypella dubia** (Bourdot & Galzin) P. Roberts

Syn. *Heterochaete dubia* Bourdot & Galzin, *Heterochaetella bispora* Luck-Allen

NE • HB, SB • Frd

On *Corylus* & *Tilia*.

P: Krasnoufimsk area, Sargaja, on *Corylus*, 19.VIII.1973 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40970). **CI:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, on fallen trunk of *Tilia*, 1.IX.1969 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40747).

***Stypella glaira** (Lloyd) P. Roberts

NE • HB • Frdv

On *Quercus*.

P: Krasnoufimsk area, Garevka, old-growth broad-leaved forest, on bark of *Quercus*, 9.IX.1974 coll. *Sirko*, det. *Raitviir* (SVER(F) 41685); *ibid.*, «Nizhneirginsk oak forest», 2.IX.1999 coll. *Golumbievskaya*, det. *Almanaite* (SVER(F) 42281).

***Stypella subgelatinosa** (P. Karst.) P. Roberts

Syn. *Protodontia subgelatinosa* (P. Karst.) Pilát

LC • HB, SB • Fhmv, Frdv

On *Betula* & *Corylus*.

P: Krasnoufimsk area, Sargaja, on *Corylus*, 18.VIII.1973 coll. *Stepanova*, det. *Raitviir* (SVER(F) 41571). **CI:** Pervouralsk area, Ilmovka, on *Betula*, 23.X.2008 *Almanaite* (SVER(F) 42754).

Subulicystidium longisporum (Pat.) Parmasto

Syn. *Peniophora longispora* (Pat.) Bourdot & Galzin

LC • FS, HB, SB, MB, NB • Fhmv, Frd, Frm

Mostly on deciduous, rarely on coniferous trees. Widely spread.

CI: *Stepanova* (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on corticated aspen branch, 20.VIII.2002 *Kotiranta 19710a*; Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on decorticated *Populus*, also *Trechispora stellulata*, 26.VIII.2002 *Kotiranta 19842*. **PI:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971). **Ks:** Kushva area, Kedrovka mnt., on aspen, 27.VIII.1960 coll. *Storozheva*, det. *Parmasto* (SVER(F) 47125). **ST:** Verkhoturkiye, Vostochny, on *Betula*, 9.IX.1970 coll. *Sirko*, det. *Kotiranta* (SVER(F) 48511). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on dead birch, 21.VIII.1947 *Stepanova* (SVER(F) 46098). **Is:** Ivdel area, Chernaja Parma mnt., on aspen, VIII.1958 coll. *Storozheva*, det. *Parmasto* (SVER(F) 46184).

****Suillosporium cystidiatum*** (D.P. Rogers) Pouzar

NE • SB • Fhmv

On *Pinus*.**Cl:** Shalya area, Shigaev, mesic old-growth *Pinus*-dominated heath forest, 3.IX.2000 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 52418).****Syzygospora bachmannii*** Diedrich & M.S. Crist.

LC • SB, MB • Fhd

On *Cladonia* spp.**Bp:** Nevjansk area, Tavatuy Lake, 20.VIII.1969 coll. *Sirko*, det. *Almanaite* (SVER(F) 40569); *ibid.*, 7.VI.2002 coll. *Trapeznikova*, det. *Almanaite* (SVER(F) 42695). **Is:** Ivdel area, Chernaja Parma, VIII.1985 coll. *Magomedova*, det. *Almanaite* (SVER(F) 41801).****Syzygospora mycophaga*** (M.P. Christ.) Hauerslev

LC • SA • Fam

Parasite on corticioid fungus *Hypochniciellum molle*.**Kh:** Ivdel area, Yanygtump mnt., subalpine zone, fallen coniferous branch, on *Hypochniciellum molle*, 11.VIII.1973 coll. *Stepanova*, det. *Almanaite* (SVER(F) 40347).****Syzygospora pallida*** (Hauerslev) Ginns

LC • SB • Frd

Parasite on corticioid fungus *Phanerochaete sordida*.**Nm:** Krasnouralsk, on *Padus/Phanerochaete sordida*, 19.VIII.1968 coll. *Kazan-tseva*, det. *Almanaite* (SVER(F) 40359). **Kh:** Karpinsk area, Kazansky Kamen mnt. range, eastern slope, old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on *Betula/Phanerochaete sordida*, 21.VIII.1947 coll. *Stepanova*, det. *Almanaite* (SVER(F) 40098).****Syzygospora physciacearum*** Diederich

NE • SB • Fhd, Slr

On *Physcia* sp.**Cl:** Nizhneserginsk area, Bazhukovo, 25.X.2008 *Almanaite* (SVER(F) 42740). **Ks:** Kushva area, NW slope of Kedrovaya mnt., on *Physcia dubia*, 29.VII.1970 coll. *Gorchakovsky*, det. *Almanaite* (SVER(F) 40976).****Syzygospora tumefaciens*** (Ginns & Sunhede) Ginns

NE • SB, MB • Fhm

On *Gymnopus dryophilus* (*Collybia dryophila*).

Cl: Nevjansk area, Tavatuy Lake, 5.IX.1973 det. *Sirko*, det. *Govorova* (SVER(F) 41049). **Ks:** Kachkanar area, SW slope of Kachkanar mnt., 11.IX.1980 det. *Stepanova*, det. *Almanaite* (SVER(F) 41236). **ST:** Verkhoturys, Vostochny, 21.VIII.1972 coll. *Sirko*, det. *Raitviir* (SVER(F) 40997).

T

Terana caerulea (Lam.) Kuntze

Syn. *Corticium caeruleum* (Lam.) Fr., *Pulcherriicum caeruleum* (Lam.) Parmasto

NT C2a(i); D1 • HB, SB • Fhm, Frd

On deciduous trees.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Sarana, on *Corylus*, 29.VIII.1999 coll. *Golumbievskaya*, det. *Almanaite* (SVER(F) 52009).

Cl: Stepanova-Kartavenko (1967); Stepanova (1971). **Bp:** Stepanova (1971); Sisert area, Biological station USU, on aspen, 27.VIII.2006 coll. *Mukhin*, det. *Almanaite* (SVER(F) 56182). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971).

**Thanatephorus brevisporus* Pouzar

LC • HB • Frd

On *Acer* & *Corylus*.

P: Krasnoufimsk area, Sargaja, on hazel, 29.VIII.1970 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 40705); *ibid.*, «Nizhneirginsk oak forest», managed mesic heath forest, on maple, 8.IX.2000 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42438).

**Thanatephorus cucumeris* (Frank) Donk

LC • FS, HB, SB, MB • Cc, Fhm

On *Solanum* in anthropogenic habitats, on herbs and deciduous wood in nature. Widely spread.

P: Krasnoufimsk, on *Anthriscus*, IX.1960 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40862). **Cl:** Pervouralsk, on *Solanum*, VIII.1959 coll. *Demidova*, det. *Stepanova* (SVER(F) 40617). **Bp:** Ekaterinburg, private garden, on *Solanum*, VIII.1962 coll. *Demidova*, det. *Sirko* (SVER(F) 40682); *ibid.*, on *Solanum*, 5.IX.2000 det. *Govorova* (SVER(F) 42322). **NI:** Tavda, Oshmarka, on *Betula*, VIII.1967 coll. *Sirko*, det. *Raitviir* (SVER(F) 41134). **Is:** Severouralsk, on *Aconitum*, IX.1975 *Stepanova* (SVER(F) 41337).

**Thanatephorus fusisporus* (J. Schröt.) P. Roberts & Hauerslev

Syn. *Hypochnus fusisporus* J. Schröt., *Uthatabasidium fusisporum* (J. Schröt.) Donk

LC • FS, HB • Frd

On *Betula*, *Quercus*, litter.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus–Quercus*-dominated forest, brook-side slope, on fallen trunk of oak, 29.IX.1999 coll. *Golumbievskaya*, det. *Almanaite* (SVER(F) 42204). **KK:** Arti area, Pristan', on fallen *Betula*, litter and soil, 10.IX.2000 coll. *Shiryaev*, det. *Almanaite* (SVER(F) 42446).

Thanatephorus terrigenus (Bres.) G. Langer

Syn. *Corticium terrigenum* Bres.

LC • SB, MB • Frd

On soil & litter.

CI: Nevjansk area, Tavatuy Lake, on litter, grasses and mosses under *Tilia*, *Sorbus*, *Juniperus*, 27.VIII.1971 coll. *Sirko*, det. *Raitviir* (SVER(F) 40553). **Bp:** Polevskoy area, S slope of Azov mnt., on litter and mosses, 28.X.2008 *Almanaite* (SVER(F) 42893). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971).

Thelephora anthocephala (Bull.: Fr.) Fr.

NT B2ab(ii,iii,iv); C2a(i) • HB, SB • Cp, Cm, Frd

On soil & litter in parks, meadows and forests.

CI: Stepanova (1971); Shiryaev & Stavishenko (2008); Shiryaev (2008c). **Bp:** Stepanova (1971); Shiryaev (2008c). **PI:** Stepanova (1971); Shiryaev (2007c, 2008c).

Thelephora caryophyllea Schaeff.: Fr.

LC • HB, SB, MB, NB • Cshi, Fhm, Frd

On soil.

CI: Shiryaev & Stavishenko (2008). **PI:** Shiryaev (2007c, 2008c). **NI:** Shiryaev (2008c). **Is:** Shiryaev (2008c).

****Thelephora crustacea*** Schumach.

LC • FS, HB, SB, MB • Cp, Fsd

On soil & litter.

KK: Arti area, Arti town park, on soil under *Quercus*, *Tilia*, *Cotoneaster niger*, 24.IX.2004 *Shiryaev* (SVER(F) 43571). **PI:** Talitsa area, Budka, steppe-like dry habitat, on soil and litter, 10.IX.1958 *Stepanova* (SVER(F) 44285).

Thelephora palmata Scop.: Fr.

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Fhm, Frd

On soil, wood and grasses. Widely spread and common.

P: Shiryaev (2008c). **KK:** Shiryaev (2008c). **CI:** Shiryaev & Stavishenko (2008). **Bp:**

Stepanova (1971); Stepanova & Mukhin (1979); Shiryayev (2008c). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2007c, 2008c). **NI:** Stepanova-Kartavenko (1967); Shiryayev (2008c). **Ks:** Shiryayev (2008c). **Nm:** Shiryayev (2008c). **ST:** Stepanova (1971); Shiryayev (2008c). **PT:** Shiryayev (2008c). **Kh:** Shiryayev (2008c). **Is:** Shiryayev (2008c). **OU:** Shiryayev (2008c). **VP:** Shiryayev (2008c).

***Thelephora penicillata* Fr.**

LC • HB, SB • Frd

On litter & soil.

P: Shiryayev (2008c). **Bp:** Shiryayev (2008c). **PI:** Shiryayev (2007c, 2008c).

***Thelephora terrestris* Ehrn.: Fr.**

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Cshi, Fad, Fhd, Frd, Fs, STha

On soil, wood, grasses. Widely spread and common.

P: Demidova (1963); Shiryayev (2008c). **KK:** Shiryayev (2008c). **CI:** Demidova (1963); Stepanova-Kartavenko (1967); Shiryayev & Stavishenko (2008). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2007c, 2008c). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **Ks:** Shiryayev (2008c). **Nm:** Shiryayev (2008c). **ST:** Shiryayev (2008c). **PT:** Shiryayev (2008c). **Kh:** Shiryayev (2008c). **Is:** Demidova (1963), Shiryayev (2008c). **OU:** Shiryayev (2008c). **VP:** Shiryayev (2008c).

***Tomentella atramentaria* Rostr.**

LC • FS, HB, SB, MB • Fhm, Frd, Fsm

On *Abies*, *Pinus*, *Cotoneaster*, *Betula*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus–Quercus*-dominated forest, on fallen branches of pine, 2.IX.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 43904 – part in TU); Shiryayev (2008c). **CI:** Shiryayev & Stavishenko (2008); Shiryayev (2008c). **PI:** Shiryayev (2007c, 2008c). **OU:** Shiryayev (2008c).

***Tomentella badia* (Link) Stalpers**

LC • HB, SB • Frd

On *Juniperus*, *Picea*, *Pinus*, *Betula*, *Populus*.

CI: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, on fallen branch of *Tilia*, 10.IX.1996 *Shiryayev* (SVER(F) 43903 – part in TU). **Bp:** Shiryayev & Stavishenko (2008); Shiryayev (2008c). **PI:** Shiryayev (2007c, 2008c).

***Tomentella bryophila* (Pers.) M.J. Larsen**

Syn. *Tomentella pallidofulva* (Peck) Litsch.

LC • FS, HB, SB, MB, NB, SA • Cp, Fhm, Frd

On *Corylus*, *Populus*, *Rhamnus*, *Sorbus*, *Quercus*, very seldom on *Abies* or *Picea*.

P: Shiryaev (2008c). **CI:** Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, on pieces of fallen *Rhamnus catharica*, 11.IX.1996 Shiryaev (SVER(F) 43908); Shiryaev & Stavishenko (2008); Shiryaev (2008c). **Bp:** Demidova (1965); Stepanova (1971); Stepanova & Mukhin (1979); Ekaterinburg, Botanical Garden RAS, on fallen branch of *Quercus*, 1.XI.2003 *Almanaite & Shiryaev* (SVER(F) 44220). **PI:** Shiryaev (2007c, 2008c). **NI:** Shiryaev (2008c).

Tomentella cinerascens (P. Karst.) Höhn. & Litsch.

LC • FS, HB, SB • Cshi, Fhm, Frd, Fsm

On *Abies*, *Alnus*, *Betula*, *Populus*, *Quercus*, *Ulmus*,

P: Shiryaev (2008c). **CI:** Prigorod area, Visim Nat. Res., Galashki, managed *Pinus*-dominated forest, on fallen branch of *Alnus incana*, 19.VIII.2000 coll. *Mukhin*, det. Shiryaev (SVER(F) 43905); Shalya area, Shigaevo, mesic old-growth *Pinus*-dominated forest, on fallen trunk of aspen, 9.VIII.2007 Shiryaev (SVER(F) 43950). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev & Stavishenko (2008); Shiryaev (2008c). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2007c, 2008c).

Tomentella coerulea (Bres.) Höhn. & Litsch.

LC • SB, MB • Fhmv, Frdv

On *Picea*, *Pinus*, *Betula*, *Populus*.

CI: Shiryaev & Stavishenko (2008); Shiryaev (2008c). **Ks:** Shiryaev (2008c).

Tomentella crinalis (Fr.) M.J. Larsen

NT A2c+3c+4c; C2a(i) • SB • Fhm

On *Betula*, *Populus*, *Tilia*.

CI: Shiryaev (2008c). **Bp:** Prigorod area, Visim Nat. Res., Galashki, mesic old-growth *Picea*-dominated heath forest, on fallen branch of *Tilia*, 17.VIII.1998 Shiryaev (SVER(F) 43906 – part in TU). **Nm:** Shiryaev (2008c).

Tomentella ellisii (Sacc.) Jülich & Stalpers

LC • FS, HB, SB, MB, NB • Fhm, Frd

On deciduous trees, very seldom on conifers.

P: Shiryaev (2008c). **KK:** Shiryaev (2008c). **CI:** Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2008c). **PI:** Shiryaev (2007c, 2008c). **NI:** Stepanova-Kartavenko (1967). **Ks:** Shiryaev (2008c). **Nm:** Shiryaev (2008c). **ST:** Shiryaev (2008c). **Kh:** Shiryaev (2008c). **Is:** Shiryaev (2008c). **OU:** Shiryaev (2008c).

Tomentella ferruginea (Pers.: Fr.) Pat.Syn. *Tomentella fusca* (Pers.) J. Schröt.**LC** • FS, HB, SB, MB • Fhm, Frd

On coniferous and deciduous trees. Widely spread.

P: Shiryaev (2008c). **KK:** Shiryaev (2008c). **Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev & Stavishenko (2008). **Bp:** Demidova (1963), Stepanova-Kartavenko (1967); Shiryaev (2008c). **PI:** Shiryaev (2007c, 2008c). **NI:** Stepanova-Kartavenko (1967). **Nm:** Shiryaev (2008c). **ST:** Shiryaev (2008c). **Kh:** Stepanova-Kartavenko (1967); Shiryaev (2008c). **Is:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2008c). **OU:** Shiryaev (2008c).***Tomentella fibrosa*** (Berk.: M.A. Curtis) KõljalgSyn. *Tomentellina bombycina* (P. Karst.) Bourdot & Galzin**LC** • FS, HB, SB, MB • Fhm, FrdOn *Abies*, *Picea*, *Sorbus*.**Cl:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev & Stavishenko (2008); Shiryaev (2008c). **PI:** Shiryaev (2007c, 2008c). **OU:** Shiryaev (2008c).***Tomentella fuscocinerea*** (Pers.) Donk**LC** • HB, MB • Fhd, FrdOn *Larix* & *Populus*.**P:** Shiryaev (2008c). **PI:** Shiryaev (2007c, 2008c). **Kh:** Shiryaev (2008c).***Tomentella galzinii*** Bourdot**LC** • FS, HB, SB • Blf, Fhm, FrdOn *Acer*, *Corylus*, *Populus*, very seldom on *Abies* or ferns like *Matteuccia*.**P:** Krasnoufimsk area, Chernaya Rechka, managed mesic heath forest with *Abies*, *Tilia*, *Ulmus*, *Populus*, *Sorbus*, *Corylus*, *Rhamnus*, on fallen branch of hazel, 15.VIII.2006 Shiryaev (SVER(F) 43968); ibid, on trunk of maple, 15.VIII.2006 Shiryaev (SVER(F) 44096); Shiryaev (2008). **Cl:** Nizhneserginsk area, «Oleni ruchii» Nat. Park, on *Matteuccia*, 10.IX.1996 Shiryaev (SVER(F) 43907 – part in TU); Shiryaev (2008c).***Tomentella lapida*** (Pers.) Stalpers**LC** • FS, HB, SB, MB • Frd, Frdv, FsmMostly on *Alnus*, *Betula*, *Corylus*, very seldom on *Picea*, *Pinus*.**P:** Shiryaev (2008c). **Cl:** Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2008c). **PI:** Shiryaev (2007c, 2008c). **Kh:** Shiryaev (2008c).***Tomentella lateritia*** Pat.**LC** • HB, SB, MB • Fhm, Frd

On *Abies*, *Picea*, *Corylus* and on soil.

P: Shiryaev (2008c). **Cl:** Shalya area, Shigaevo, on fallen branches of spruce, 9.VIII.2007 Shiryaev (SVER(F) 43923 – part in TU). **Bp:** Shiryaev & Stavishenko (2008), Shiryaev (2008c). **PI:** Shiryaev (2007c, 2008c). **Kh:** Kõljalg (1996).

Tomentella lilacinogrisea Wakef.

LC • FS, HB, SB, MB, NB • Fhm, Frdv

On *Pinus*, *Acer*, *Populus*, *Quercus*.

P: Shiryaev (2008c). **Cl:** Shiryaev & Stavishenko (2008). **PI:** Shiryaev (2007c, 2008c). **PT:** Kõljalg (1996). **Kh:** Shiryaev (2008c).

Tomentella pilosa (Burt) Bourdot & Galzin

VU D1+2 • HB, SB • Fhmv

On *Corylus* & *Tilia*.

P: Shiryaev (2008c). **Bp:** Shiryaev (2008c).

Tomentella punicea (Alb. & Schwein.) J. Schröt.

NT C1+2a(i) • HB, SB • Fhmv, Frdv

On *Corylus*, *Populus*, very seldom on *Picea*.

P: Shiryaev (2008c). **Bp:** Demidova (1963); Nevjansk area, S coast of Tavatuy lake, mesic old-growth *Picea*-dominated heath forest, on fallen trunk of spruce, 15.VII.2006 Shiryaev (SVER(F) 43922 – part in TU). **NI:** Demidova (1963).

Tomentella radiosa (P. Karst.) Rick

LC • HB, SB, MB • Fhm, Frd

On *Picea*, *Pinus*, *Betula*, *Populus*.

Cl: Shiryaev & Stavishenko (2008); Shiryaev (2008c). **PI:** Shiryaev (2007c, 2008c). **Kh:** Shiryaev (2008c).

Tomentella stuposa (Link) Stalpers

Syn. *Tomentella bresadolae* (Brinkmann) Bourdot & Galzin, *T. hoehnelii* Skovst., *T. subfusca* (Pers.) Höhn. & Litsch.

LC • FS, HB, SB • Fhm, Frd, Fsm

On *Picea*, *Pinus*, *Populus*, *Tilia*.

P: Shiryaev (2008c). **Bp:** Shiryaev (2008c), Shiryaev & Stavishenko (2008). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryaev (2007c, 2008c). **NI:** Shiryaev (2008c).

Tomentella subclavigera Litsch.

LC • HB, SB • Fhm, Frd

On *Picea*, *Betula*, *Tilia*.

P: Achit area, Korzunovka, managed *Pinus*-dominated forest, on fallen branch of *Betula pubescens*, 1.IX.1975 *Stepanova* (SVER(F) 43921 – part in TU). **Cl:** Shiryayev (2008c).

Tomentella sublilacina (Ellis et Holw.) Wakef.

Syn. *Tomentella albomarginata* (Bourdot & Galzin) M.P. Christ.

LC • FS, HB, SB, MB, NB • Fhm, Frdv, Fsmv

On *Abies*, *Populus*, *Quercus*, litter.

P: *Stepanova* (1971); Krasnoufimsk area, «Nizhneirginsk oak forest», on litter under oak, 28.VIII.1998 *Shiryayev* (SVER(F) 43920 – part in TU); *Shiryayev* (2008c). **KK:** *Stepanova* (1971). **Cl:** *Shiryayev* (2008c). **Bp:** *Shiryayev* & *Stavishenko* (2008); *Shiryayev* (2008c). **PI:** *Shiryayev* (2007c, 2008c). **Kh:** *Kõljalg* (1996).

Tomentella subtetacea Bourdot & Galzin

LC • SB • Fhmv

On *Alnus*, *Populus*, once on *Picea*.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, old-growth luxuriant *Abies*-dominated forest, on fallen trunk of *Picea*, 4.IX.2004 coll. *Ushakova*, det. *Stavishenko* (SVER(F) 44271 – part in TU); *Shiryayev* (2008c). **Bp:** *Shiryayev* (2008c).

Tomentella terrestris (Berk. & Broome) M.J.Larsen

LC • HB, SB • Fhm, Fhmv

On *Picea*, *Pinus*, *Betula*.

Cl: *Shiryayev* & *Stavishenko* (2008); *Shiryayev* (2008c). **Bp:** *Shiryayev* (2008c). **PI:** *Shiryayev* (2007c, 2008c).

****Tomentella umbrinospora*** M.J. Larsen

NT C1+C2a(i) • HB, SB • Fhmv

On *Quercus* and litter in mixed forests.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on fallen trunk of *Quercus*, 18.IX.1997 *Shiryayev* (SVER(F) 43917 – part in TU). **Cl:** Shalya area, Shigaev, on litter in old-growth forest with *Pinus*, *Betula*, *Populus*, *Ulmus*, *Sorbus*, 9.VIII.2007 *Shiryayev* (SVER(F) 43916 – part in TU).

Tomentella viridula Bourdot & Galzin

NT C1+2a(i) • FS, HB • Fhmv

On *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on bark of oak, 2.IX.1996 *Shiryayev* (SVER(F) 43910 – part in TU); *Shiryayev* (2008c).

Tomentellopsis echinospora (Ellis) Hjortstam**LC** • FS, HB, SB • Fhm, FrdOn *Pinus*, *Juniperus*, *Corylus*, also on dead grasses and mosses.**P:** Stepanova (1971); Shiryayev (2008c). **Cl:** Shalya area, Shigaevo, old-growth *Pinus*-dominated forest, on fallen trunk and bark of pine, 9.VIII.2007 coll. Shiryayev, det. Stavishenko (SVER(F) 43900 – part in TU). **Bp:** Stepanova (1971); Köljalg (1996); Shiryayev & Stavishenko (2008); Shiryayev (2008). **PI:** Shiryayev (2007c, 2008c).***Tomentellopsis zygodesmoides*** (Ellis) Hjortstam**LC** • HB, SB • Fhd, Fhdv

On deciduous and coniferous trees.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus*–*Quercus*-dominated dry heath forest, on twigs of oak, 1.IX.1999 coll. Golumbievskaya, det. Stavishenko (SVER(F) 43901 – part in TU); Shiryayev (2008c). **Cl:** Stepanova (1971). **Bp:** Stepanova (1971); Shiryayev & Stavishenko (2008).***Trametes cervina*** (Schwein.) Bres.**LC** • SB, MB • Cp, Fhm, FrdOn *Betula*, *Populus*, *Salix*.**Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **NI:** Stepanova (1971); Mukhin (1993). **Kh:** Stavishenko (2003).***Trametes gibbosa*** (Pers.) Fr.Syn. *Pseudotrametes gibbosa* (Pers.) Bondartsev & Singer**LC** • FS, HB, SB, MB • Cp, Fhm, Frd, Frm, FsmOn *Acer*, *Betula*, *Populus*, *Quercus*.**P:** Stepanova-Kartavenko (1967); Stepanova (1971); Kotiranta et al. (2007). **Cl:** Solovjev (1947); Stepanova-Kartavenko (1967); Stepanova (1971); Shalya area, Shigaevo, on stump of *Populus nigra*, 4.VIII.2007 Shiryayev SVER(F) 56473). **Bp:** Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); Kotiranta et al. (2007); Ekaterinburg, Botanical Garden RAS, on *Populus alba*, 30.IX.2009 Shiryayev (SVER(F) 58612). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **ST:** Demidova (1963).***Trametes hirsuta*** (Wulfen) Pilát**LC** • FS, HB, SB, MB, NB, SA • Cp, Cshi, Fad, Fhd, Frd, Fsd, Fsm, Md, MI, SifOn *Alnus*, *Betula*, *Padus*, *Populus*, *Salix*, *Sorbus*, *Tilia*, *Juglans* (cult.), *Malus* (cult.), *Crataegus*, *Quercus*, *Syringa* (cult.). Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Sarana, on oak, 30.VIII.1999 *Golumbievskaya* SVER(F) 53266). **KK:** Arti area, Pristan', on *Malus*, 30.VIII.1970 *Kazantseva* SVER(F) 47233). **CI:** Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on corticated *Alnus incana* branch, also with *Peniophora erikssonii*, 26.VIII.2002 *Kotiranta* 19822; Kotiranta et al. (2007). **Bp:** Naumov (1915); Demidova (1963); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI:** Demidova (1963); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Mukhin (1993). **Ks:** Kachkanar, city park, on *Populus balsamifera* (cult.), 19.VIII.1994 *Bryzgalov* SVER(F) 50794). **Nm:** Krasnouralsk, city park, on *Syringa* (cult.), 14.VIII.1995 *Bryzgalov* (SVER(F) 50752). **ST:** Verkhoturiye, Vostochny, on *Alnus*, 28.VIII.1963 coll. *Storozheva*, det. *Stepanova* (SVER(F) 48054). **PT:** Gari area, Zykova, on *Salix*, 3.IX.1966 *Sirko* (SVER(F) 47620). **Kh:** Stavishenko (2003). **Is:** Ivdel area, Polunochnoje, on *Sorbus*, 18.VIII.2005 *Shiryayev & Kotiranta* (SVER(F) 56725). **OU:** Ivdel area, Ous, on *Padus*, 7.VIII.2007 *Shiryayev* (SVER(F) 57122).

Trametes ljubarskyi Pilát

VU D2 • HB, SB • Fhmv, Sif

On *Populus*.

P: Krasnoufimsk area, Sarana, Ufa river valley, on *Populus nigra*, 30.VIII.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 51269). **CI:** Stepanova (1971); Shalya area, Sylva, on aspen, 9.IX.1973 *Stepanova* (SVER(F) 48001).

Trametes ochracea (Pers.) Gilb. & Ryvarden

Syn. *Coriolus zonatus* (Nees) Quél.

LC • FS, HB, SB, MB, NB, SA • Cp, Cshi, Fhm, Frd, Fsm, Sif

On *Alnus*, *Betula*, *Crataegus*, *Malus* (cult.), *Padus*, *Populus*, *Salix*, *Sorbus*, *Syringa* (cult.), seldom on *Picea*. Widely spread and common.

P: Stepanova (1971); Krasnoufimsk area, Chernaja Rechka, on aspen, 14.VIII.2006 *Shiryayev* (SVER(F) 57658). **CI:** Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix*, on corticated aspen, 19.VIII.2002 *Kotiranta* 19660; Prigorod area, Visim Nat. Res., Galashki, on *Betula*, 17.IX.1994 *Kotiranta* 11810 & 11816; Kotiranta et al. (2007). **Bp:** Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Stavishenko (2000, 2006); Sisert area, Biological station USU, on strongly human influenced grass-herb forest, on corticated *Salix caprea*, together with *Bjerkandera adusta*, *Trametes versicolor*, 28.VIII.2002 *Kotiranta* 19901; Kotiranta et al. (2007). **PI:** Demidova (1963); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Stepanova (1971); Mukhin (1993). **Ks:** Naumov (1915); Stepanova (1971). **Nm:** Stepanova (1971). **ST:** Demidova (1963), Stepanova (1971). **Kh:** Stepanova (1971); Stavishenko (2003). **Is:** Stepanova (1971); Severouralsk area, Bajanovka, on *Betula*, 6.VIII.2005

Mukhin & Kotiranta (SVER(F) 55433). **OU**: Stepanova (1971); Ivdel area, Ous, on *Alnus*, 10.VIII.2006 *Shiryayev* (SVER(F) 56721).

Trametes pubescens (Schumach.) Pilát

LC • FS, HB, SB, MB, NB, SA • Cshi, Fhd, Fhm, Frd, Slf

On deciduous trees. Widely spread and common.

P: Stepanova-Kartavenko (1967); Stepanova (1971); Krasnoufimsk area, Chernaja Rechka, on *Tilia*, 15.VIII.2006 *Shiryayev* (SVER(F) 57083). **Cl**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on dead corticated willow, also with *Bjerkandera adusta*, *Irpex lacteus*, *Funalia trogii*, *Daedaleopsis confragosa*, *Antrodiella pallescens*, *Botryobasidium pruinaum*, *Cytidia salicina*, 26.VIII.2002 *Kotiranta 19799*; Kotiranta et al. (2007). **Bp**: Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on fallen *Betula*, also *Laxitextum bicolor*, 13.VIII.1993 *Kotiranta 11027*; Stavishenko (2000, 2006); Mukhin & Ushakova (2001); Kotiranta et al. (2007). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993); Kotiranta et al. (2007). **NI**: Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin (1993). **Nm**: Stepanova-Kartavenko (1967); Stepanova (1971). **Kh**: Karpinsk area, Kazansky Kamen mnt. range, eastern slope, old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of birch, 21.VIII.1947 *Stepanova* (SVER(F) 46588); Stavishenko (2003). **Is**: Ivdel area, Polunochnoje, on *Betula*, 18.VIII.2005 *Kotiranta* (SVER(F) 56085). **OU**: Ivdel area, Pelym, on *Alnus*, 25.VIII.1980 *Stepanova* (SVER(F) 48359).

Trametes suaveolens (L.) Fr.

Syn. *Fomitopsis odoratissima* Bondartsev

LC • FS, HB, SB, MB • Cp, Frd, Slf

On *Salix*. Widely spread.

P: Stepanova (1971); Krasnoufimsk area, Sarana, on willow, 30.VIII.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 51396). **Cl**: Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, 17.IX.1994 *Kotiranta 11785*; Kotiranta et al. (2007). **Bp**: Stepanova (1971); Stepanova & Mukhin (1979); Kotiranta et al. (2007); Ekaterinburg, Botanical Garden RAS, 16.X.2008 *Stavishenko* (SVER(F) 58577); Sisert area, Biological station USU, Sisert river valley, on willow, 30.VI.2009 *Shiryayev* (SVER(F) 59126). **PI**: Stepanova (1971). **NI**: Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., close to the brook, 21.VIII.1947 *Stepanova* (SVER(F) 46945). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Ivdel area, Ous, 7.VIII.2007 *Shiryayev* (SVER(F) 58451).

Trametes velutina (Fr.) G. Cunn.

LC • FS, HB, SB, MB, NB, SA • Fhm, Frd, Sif

On deciduous trees. Widely spread.

P: Krasnoufimsk area, Sargaja, on *Corylus*, 14.VIII.2006 *Shiryayev* (SVER(F) 57040). **Cl:** Revda area, Khomutovka, polluted river-side thicket with *Salix* spp., *Padus*, *Picea*, on dead *Padus*, 26.VIII.2002 *Kotiranta 19804*; Kotiranta et al. (2007). **Bp:** Sisert area, Biological station USU, on *Alnus*, 30.VI.2009 *Mukhin* (SVER(F) 58979). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Sorbus*, 3.IX.1969 coll. *Sirko*, det. *Mukhin* (SVER(F) 47585). **NI:** Irbit area, Zaikovo, on *Ulmus*, 11.IX.2000 *Shiryayev* (SVER(F) 53664). **Nm:** Krasnouralsk, town park, on *Crataegus*, 15.VIII.1995 *Bryzgalov* (SVER(F) 50359). **ST:** Verkhoturiiye, Vostochny, on *Alnus*, 28.VIII.1963 coll. *Storozheva*, det. *Mukhin* (SVER(F) 47104). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on *Padus*, 13.VIII.1967 *Kazantseva* (SVER(F) 47997). **Is:** Severouralsk area, Bajanovka, on *Padus*, 6.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 57088). **OU:** Ivdel area, Ous, on *Padus*, 7.VIII.2007 *Shiryayev* (SVER(F) 58107).

Trametes versicolor (L.) Lloyd

LC • FS, HB, SB, MB • Cp, Cr, Cshi, Cw, Fhd, Fhm, Frd, Frm, Ml

On deciduous trees. Widely spread and common.

P: Stepanova (1971); Krasnoufimsk area, Chernaja Rechka, on *Acer*, 15.VIII.2006 *Shiryayev* (SVER(F) 57432). **Cl:** Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on aspen branch, also *Funalia trogii*, sunny forest edge, 20.VIII.2002 *Kotiranta 19723*; Prigorod area, Visim Nat. Res., Galashki, on *Betula pendula*, 18.IX.1994 *Kotiranta 11803*; Kotiranta et al. (2007). **Bp:** Naumov (1915); Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on aspen log, 13.VIII.1993 *Kotiranta 10983*; *ibid.*, on fallen birch, 13.VIII.1993 *Kotiranta 11007*; *ibid.*, *Pinus*-dominated, relatively poor, fairly old forest, on fallen birch, together with *Fomes fomentarius*, 27.VIII.2002 *Kotiranta 19853*; Stavishenko (2000); Kotiranta et al. (2007). **PI:** Demidova (1963); Stepanova (1971); Mukhin et al. (2003); Kotiranta et al. (2007). **NI:** Stepanova (1971); Mukhin (1993). **Ks:** Stepanova (1971). **Nm:** Stepanova (1971). **ST:** Stepanova (1971). **PT:** Stepanova (1971). **Kh:** Stepanova (1971); Stavishenko (2003). **Is:** Stepanova (1971); Ivdel area, Vizhaj, on *Sorbus*, 18.VIII.2005 *Kotiranta* SVER(F) 56309). **OU:** Stepanova (1971); Ivdel area, Ous, on *Alnus*, 10.VIII.2006 *Shiryayev* (SVER(F) 56571). **VP:** Stepanova (1971).

Trechispora alnicola (Bourdot & Galzin) Liberta

Syn. *Grandinia alnicola* Bourdot & Galzin, *Phlebiella alnicola* (Bourdot & Galzin) Bondartsev & Singer

LC • HB, SB • Fhmv

On *Alnus* & *Corylus*.

Cl: Krasnoufimsk area, Sargaja, mesic old-growth *Abies*-dominated forest, on *Corylus*, 28.VIII.1970 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 48789). **PI:** Stepanova (1971).

Trechispora candidissima (Schwein.) Bondartsev & Singer

Syn. *Phlebiella candidissima* (Schwein.) W.B. Cooke

NT B2ab(iii); C2a(i) • SB, MB • Fhv, Fhmv

On deciduous & coniferous trees.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Shalya area, Shigaevo, old-growth *Abies*-dominated mesic heath forest, on *Frangula alnus*, 3.IX.2000 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 53230). **Bp:** Stepanova-Kartavenko (1967); Stepanova (1971); Stepanova & Mukhin (1979); Nevjansk area, Novouralsk, SW slope of Visjachy Kamen mnt., managed *Pinus*-dominated heath forest, on *Alnus*, 15.VII.2008 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 58084). **Is:** Stepanova (1971).

Trechispora cohaerens (Schwein.) Jülich & Stalpers

LC • SB, MB • Fhm, Frd

On *Populus*, *Salix*, *Picea*.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix*, on decorticated aspen, 19.VIII.2002 *Kotiranta 19688a*. **Bp:** Sisert area, Biological station USU, mesic herb-rich forest, Sisert river valley, on *Salix caprea*, 30.VI.2009 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 58956). **Is:** Stepanova (1971).

Trechispora farinacea (Pers.) Liberta

LC • SB, MB • Cp, Fhmv, Frd

On *Picea* & *Pinus*. Widely spread.

Cl: Stavishenko (2006). **Bp:** Sisert area, Biological station USU, yard, on decorticated pine, 25.VIII.2002 *Kotiranta 19794*. **Kh:** Ivdel area, Molebny Kamen mnt. range, old-growth *Picea-Pinus sibirica*-dominated mesic heath forest, on spruce, 13.VIII.2005 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 57686).

Trechispora fastidiosa (Pers.) Liberta

LC • HB, SB • Fhmv

On branches of coniferous and deciduous trees, litter, grasses, mosses.

P: Stepanova (1971). **Bp:** Nevjansk area, Tavatuy lake, mesic old-growth *Picea*-dominated heath forest, on litter, grasses and fallen branches of spruce and linden, 30.VIII.1967 coll. *Stepanova*, det. *Parmasto* (SVER(F) 49625). **NI:** Mukhin (1993).

****Trechispora hymenocystis*** (Berk. & Broome) K.H. Larss.

LC • SB, MB • Fhm, Frd

On *Abies* & *Betula*.

Cl: Shalya area, Shigaevo, mesic luxuriant herb-rich forest with *Abies*, *Pinus*, *Tilia*, *Populus*, *Betula*, *Sorbus*, *Rhamnus*, on fallen trunk of birch, 26.VIII.1997 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57025 – part in H.K.). **Is:** Severouralsk area, Bajanovka, on fir, 6.VIII.2005 *Mukhin* & *Kotiranta* (SVER(F) 57829).

****Trechispora invisitata*** (H.S.Jaks.) Liberta

LC • SB • Frdv

On *Picea*.

Cl: Nevjansk area, S coast of Tavatuy Lake, mesic old-growth *Picea*-dominated herb-rich forest, on spruce, 6.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 58003). **Ks:** Kushva area, W slope of Kedrovka mnt., mesic old-growth *Abies*–*Pinus*-dominated forest, on spruce, 8.VIII.1970 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 49351).

****Trechispora laevis*** K.H Larss.

LC • FS, HB, MB • Fhm, Fhmv

On *Corylus*, *Picea*.

P: Krasnoufimsk area, Sargaja, on *Corylus*, 28.VIII.1970 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 50000). **Kh:** Ivdel area, Molebny Kamen mnt. range, mesic old-growth *Abies*–*Picea*–*Pinus sibirica*-dominated heath forest with *Populus*, *Betula*, *Sorbus*, *Padus*, on fallen moss-covered *Picea* trunk, 13.VIII.2005 *Shiryayev* & *Kotiranta* (SVER(F) 56947).

Trechispora microspora (P. Karst.) Liberta

LC • SB, MB • Fhm

On *Pinus*, *Picea* & litter.

Bp: Sisert area, Biological station USU, managed *Pinus*-dominated mesic heath forest, on fallen twigs of pine, bark, litter and ferns, 3.IX.2002 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 53296). **Is:** Stepanova (1971).

Trechispora mollusca (Pers.) Liberta

LC • HB, SB, MB • Fhm, Frd

On coniferous and deciduous trees and dead fruitbodies of polypores. Widely spread.

Cl: Stepanova-Kartavenko (1967); Stepanova (1971); Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, *Abies*-dominated old-growth forest with *Populus*, on decorticated fir, 20.VIII.2002 *Kotiranta* 19708; *ibid.*, on decorticated

fir, 20.VIII.2002 *Kotiranta 19713*; Prigorod area, Visim Nat. Res., Galashki, on *Betula pendula* and *Fomes fomentarius*, 17.IX.1994 *Kotiranta 11809*; *ibid.*, on fir, 18.IX.1994 *Kotiranta 11820*; Kotiranta et al. (2007). **Bp**: Kotiranta et al. (2007). **PI**: Stepanova-Kartavenko (1967); Stepanova (1971). **NI**: Mukhin (1993). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, mixed old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen fir trunk, 20.VIII.1947 coll. *Stepanova*, det. *Almanaite* (SVER(F) 46095).

Trechispora nivea (Pers.) K.H. Larss.

Syn. *Trechispora hypoleucum* (Berk. & Broome) K.H. Larss.

LC • SB, MB • Fhmv, Frd

On *Pinus*, litter, mosses.

Bp: Stepanova & Mukhin (1979). **Ks**: Kachkanar area, Kachkanar mnt., mesic old-growth heath forest, on decomposed coniferous wood intermixed with litter and mosses, 27.VIII.1980 coll. *Stepanova*, det. *Almanaite* (SVER(F) 49986). **ST**: Verkhoturkiye, Vostochny, on pine and mosses, 28.VIII.1963 coll. *Storozheva*, det. *Mukhin* (SVER(F) 47309).

****Trechispora praefocata*** (Bourdot & Galzin) Liberta

LC • HB, SB • Frd, Frdv

On *Abies*, *Tilia*, mosses, grasses, litter.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Pinus-Quercus*-dominated herb-rich forest, on linden and litter, 3.IX.1999 coll. *Golumbievskaya*, det. *Almanaite* (SVER(F) 53542). **CI**: Nizhneserginsk area, 7 km S of Nizhniye Sergi town, mesic old-growth *Abies*-dominated herb-rich forest, on fallen fir trunk, litter, ferns, mosses, 8.IX.2004 coll. *Ushakova*, det. *Almanaite* (SVER(F) 57417).

Trechispora stellulata (Bourdot & Galzin) Liberta

LC • SB • Fhd, Fhmv

On deciduous trees, conifers, litter.

CI: Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on decorticated aspen, also *Subulicystidium longisporum*, 26.VIII.2002 *Kotiranta 19841*; Shiryayev & Stavishenko (2008). **Bp**: Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on decorticated pine branch, also with *Vesiculomyces citrinus*, 25.VIII.2002 *Kotiranta 19770a*.

****Trechispora subsphaerospora*** (Litsch.) Liberta

LC • SB, MB • Fhmv

On litter and twigs under conifers & deciduous tree.

Bp: Nevjansk area, Tavatuy Lake, old-growth forest with *Picea*, *Pinus*, *Juniperus*,

Tilia, *Sorbus*, on fallen decomposed *Picea* and litter, 24.VIII.1970 coll. *Stepanova*, det. *Parmasto* (SVER(F) 50449). **Is**: Ivdel area, Chernaja Parma, on stump of spruce and birch and litter around, 9.VIII.1969 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 49213).

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

NE • SB • Fhd

On *Cladonia* spp.

Cl: Nizhneserginsk area, «Mikhailovsk Zavod», W slope of Bardym mnt. range, old-growth *Abies–Tilia* heath forest, VII.1983 coll. *Magomedova*, det. *Almanaite* (SVER(F) 41120). **Bp**: Nevjansk area, «Bratja Gronskiye» mnt., 5.IX.2000 coll. *Trapeznikova*, det. *Almanaite* (SVER(F) 42651).

****Tremella encephala*** Pers. : Fr.

LC • SB, MB, NB • Fhd, Fhm

Parasite of *Stereum sanguinolentum* which grows on coniferous trees. Widely spread.

Cl: Nizhneserginsk area, «Mikhailovsk Zavod», W slope of Bardym mnt. range, on fallen *Pinus/S. sanguinolentum*, 12.IX.1972 coll. *Stepanova*, det. *Sirko* (SVER(F) 40785); Prigorod area, Visim Nat. Res., trunk of *Picea/S. sanguinolentum*, 20.IX.2001 coll. *Shiryayev*, det. *Govorova* (SVER(F) 42669). **Bp**: Sisert area, Biological station USU, on *Pinus/S. sanguinolentum*, 3.IX.2002 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42715); Polevskoy area, Azov mnt., 28.X.2008 *Almanaite* (SVER(F) 42903). **Kh**: Karpinsk area, Kazansky Kamen mnt. range, eastern slope, old-growth forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of *Siberian pine/S. sanguinolentum*, 20.VIII.1947 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40644).

Tremella foliaceae Pers. : Fr.

LC • FS, HB, SB, MB, NB, SA • Fhm, Frd

On deciduous-, rarely on coniferous trees. Widely spread and common.

P: Achit area, Korzunovka, on *Alnus*, 2.IX.1973 *Stepanova* (SVER(F) 40698).

Cl: Pervouralsk, Bilimbay, on *Betula*, 1.IX.1968 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40613); Nizhneserginsk area, Bazhukovo, on *Betula*, 25.X.2008 *Almanaite* (SVER(F) 42727). **Bp**: *Stepanova* (1971); Sisert area, Biological station USU, on *Pinus*, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 42658). **PI**: Mukhin (1993). **NI**: Irbit area, Zaikovo, on *Pinus*, 6.IX.2002 *Shiryayev* (SVER(F) 42566).

Ks: Kachkanar mnt., on *Betula*, 13.VIII.1995 *Bryzgalov* (SVER(F) 42007). **ST**: Verkhoturiye, on *Picea*, 28.VIII.1963 coll. *Storozheva*, det. *Sirko* (SVER(F) 40738).

Is: Severouralsk area, Bajanovka, on *Alnus*, 6.VIII.2005 *Kotiranta & Mukhin* (SVER(F) 42773). **OU**: Ivdel area, Ous, on *Betula*, 7.VIII.2007 *Shiryayev* (SVER(F) 42822).

****Tremella giraffa*** C.-J. Chen

LC • HB, SB • Fhm

Parasite of *Dacrymyces* spp.

P: Krasnoufimsk area, Sarana, moist old-growth forest, on twigs and branches of *Sorbus aucuparia*, inside fruitbodies of *Dacrymyces minor*, 30.VIII.1999 coll. *Golumbievskaya*, det. *Almanaite* (SVER(F) 41422). **Cl:** Shalya area, Shigaevo, mesic old-growth *Abies*-dominated forest, in *Dacrymyces stillatus*/fallen branch of birch, 14.IX.1998 coll. *Shiryayev*, det. *Govorova* (SVER(F) 41355).

****Tremella globispora*** Reid

LC • HB, SB • Frd, Frdv

On *Quercus*, *Salix* with Pyrenomycetes (Ascomycota).

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on branch of oak, with some Pyrenomycetes, 2.X.1969 coll. *Sirko*, det. *Govorova* (SVER(F) 40412). **Cl:** Nizhneserginsk area, «Mikhailovsk Zavod», W slope of Bardym mnt. range, on twigs of *Salix* sp., 13.IX.1973 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40688); *ibid.*, «Oleni Ruchii», on dead deciduous branch, 25.X.2008 *Almanaite* (SVER(F) 42945).

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

LC • HB, SB, MB • Fhd, Fhdv, Fhm

On *Hypogymnia physodes*.

Cl: Nizhneserginsk area, «Mikhailovsk Zavod», W slope of Bardym mnt. range, 28.VIII.1969 coll. *Sirko*, det. *Almanaite* (SVER(F) 40510). **Bp:** Sisert area, Biological station USU, 28.VIII.2002 coll. *Trapeznikova*, det. *Almanaite* (SVER(F) 42641). **ST:** Verkhoturys, on 25.VII.1974 coll. *Storozheva*, det. *Almanaite* (SVER(F) 41461). **Is:** Ivdel area, Chernaja Parma mnt., VIII.1982 coll. *Magomedova*, det. *Almanaite* (SVER(F) 40938).

****Tremella indecorata*** Sommerf.

LC • SB • Fr

On *Alnus*, *Salix* with Pyrenomycetes (Ascomycota).

Cl: Nizhneserginsk area, Atig, on *Salix* twigs with Pyrenomycetes, 21.IX.1969 coll. *Sirko*, det. *Raitviir* (SVER(F) 40770 – part in TAA). **Bp:** Nevjansk area, S coast of Tavatuy Lake, herb-rich forest, *Alnus* branch with Pyrenomycetes, 1.X.1974 coll. *Sirko*, det. *Govorova* (SVER(F) 40854).

****Tremella karstenii*** HauerslevSyn. *Exidia juniperina* P. Karst.

LC • SB, MB • Fhm

On *Juniperus* with Pyrenomycetes (Ascomycota).

Bp: Nevjansk area, S coast of Tavatuy lake, old-growth *Pinus*-dominated forest, on branches and twigs of *Juniperus communis* with Pyrenomycetes, 19.IX.1975 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40990 – part in TAA). **ST:** Salda area, Verkh Salda, cut pine–birch forest, on *Juniperus* with Pyrenomycetes, 19.VIII.1977 coll. *Stepanova*, det. *Almanaite* (SVER(F) 41298).

***Tremella mesenterica* Retz. : Fr.**

LC • FS, HB, SB, MB, NB, SA • Fhm, Frd

Mostly on deciduous trees with *Peniophora* spp. Widely spread and common.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak branch, with *Peniophora incarnata*, 19.IX.1999 *Shiryayev* (SVER(F) 41580). **Cl:** *Stepanova* (1971). **Bp:** *Stepanova* (1971). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Alnus*, 24.VIII.1969 *Sirko* (SVER(F) 40774); *Mukhin* (1993). **NI:** *Stepanova* (1971). **Ks:** Kachkanar mnt., on *Betula* with *Peniophora* sp., 13.VIII.1995 *Bryzgalov* (SVER(F) 41287). **Kh:** Severouralsk area, Yelovy Uval mnt. range, on *Salix*, 13.VIII.1946 coll. *Solovjev*, det. *Stepanova* (SVER(F) 40090). **Is:** *Stepanova* (1971). **OU:** Ivdal area, Ous, on birch, 7.VIII.2007 *Shiryayev* (SVER(F) 42674).

****Tremella mycetophiloides* Kobayasi**

LC • SB • Fhmv

Parasite of *Aleurodiscus amorphus*.

Cl: Prigorod area, Visim Nat. Res., on dead *Aleurodiscus* sp./*Abies*, 20.VIII.1975 coll. *Stepanova*, det. *Almanaite* (SVER(F) 41768). **Bp:** Nevjansk area, Tavatuy Lake, on *Aleurodiscus amorphus*/*Picea*, 20.VIII.1970 coll. *Sirko*, det. *Raitviir* (SVER(F) 41301).

****Tremella obscura* (Olive) M.P. Christ.**

LC • HB, SB • Fhm

Parasite of *Dacrymyces* spp.

Cl: Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed mesic *Pinus–Larix–Betula pubescens*-dominated heath forest, on *D. stillatus*/fallen branches of *Betula pendula*, 11.IX.1996 coll. *Shiryayev*, det. *Govorova* (SVER(F) 41666). **PI:** Talitsa area, Budka, on *D. minor*/*Salix caprea*, 15.VIII.1968 coll. *Sirko*, det. *Raitviir* (SVER(F) 41192).

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

LC • HB, SB • Cp, Cshi

Parasite of *Phaeophyscia orbicularis* (Ascomycota).

P: Krasnoufimsk town park, on *P. orbicularis*/*Acer platanoides*, 1.IX.1999 coll. *Golumbievskaya*, det. *Govorova* (SVER(F) 41588). **Bp:** Ekaterinburg, Obroshensk park, on *P. orbicularis*/*Populus nigra*, 7.IX.2001 coll. *Trapeznikova*, det. *Almanaite* (SVER(F) 41882).

****Tremella polyporina*** D.A. Reid

LC • SB, MB • Fhm, Fhmv

Parasite of polypores of *Postia* and *Tyromyces*.**CI:** Nizhneserginsk area, «Oleni Ruchii» Nat. Park, *Abies*-dominated mesic heath forest, inside on *Postia tephroleuca*, 4.IX.2004 coll. *Ushakova*, det. *Almanaite* (SVER(F) 42751); *ibid.*, «Mikhailovsk Zavod», old-growth *Abies*-dominated forest, on *Postia*/fallen pine, 20.VIII.1948 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40227).**Bp:** Sisert area, Biological station USU, on *Betula pendula*, inside tubes of *Tyromyces chioneus*, 6.IX.2003 coll. *Ushakova*, det. *Almanaite* (SVER(F) 42355).**OU:** Ivdel area, Ous, mesic old-growth *Picea–Pinus sibirica* dominated heath forest, inside *Postia caesia*/fallen trunk of *Pinus sibirica*, 9.VIII.2006 *Shiryayev* (SVER(F) 42898).***Tremellodendropsis tuberosa*** (Grev.) D.A. CrawfordSyn. *Aphelaria tuberosa* (Grev.) Corner, *Thelephora contorta* P. Karst.

VU A2c+3c+4c; C1+2a(i) • FS, HB, SB • Frd, Frdv

On soil.

P: *Shiryayev* (2006a). **Bp:** *Shiryayev* (2004b, 2006a); Sisert area, Verkh Sisert, old-growth *Pinus*-dominated herb-rich forest with *Tilia*, *Sorbus*, *Alnus*, *Frangula*, on soil, 1.VIII.2004 *Shiryayev* (SVER(F) 42371). **NI:** *Stepanova* (1971).***Tremiscus helvelloides*** (DC.) DonkSyn. *Guepinia helvelloides* (DC.) Fr.

NT A2c+3c+4c; C2a(i) • HB, SB • Fhm, Frdv

On soil.

P: *Stepanova* (1971); Krasnoufimsk area, Chernaja Rechka, mesic old-growth *Abies*-dominated herb-rich forest, 14.VIII.2006 *Shiryayev* (SVER(F) 42485). **CI:** Nevjansk area, Tavatuy Lake, old-growth *Pinus–Betula*-dominated mesic forest, 3.IX.1979 *Stepanova* (SVER(F) 41663). **Bp:** Sisert area, Biological station USU, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 42747).***Trichaptum abietinum*** (Dicks.) Ryvarden

LC • HB, SB, MB, NB, SA, AL • Bif, Fad, Cp, Cshi, Fhm, Frd, Md

On *Abies*, *Picea*, *Pinus*, *Larix*. Widely spread and common.**P:** *Stepanova* (1971); *Ushakova & Mukhin* (2003). **CI:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Revda* area, *Khomutovka*, polluted river-side thicket forest with *Salix* spp., *Padus*, *Picea*, on corticated spruce, also with *Hyphodontia subalutacea*, *Skeletocutis amorphia*, *Fomitopsis pinicola*, 26.VIII.2002 *Kotiranta 19816*; *Ushakova & Mukhin* (2003); *Kotiranta et al.* (2007). **Bp:** *Demidova* (1963); *Stepanova* (1971); *Stavishenko* (2000, 2006). **PI:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Mukhin* (1993); *Mukhin et al.* (2003); *Kotiranta et al.* (2007). **NI:** *Demidova* (1963); *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Mukhin*

(1993); Kotiranta et al. (2007). **Ks**: Stepanova-Kartavenko (1967); Stepanova (1971); Ushakova & Mukhin (2003). **Nm**: Stepanova-Kartavenko (1967); Stepanova (1971); Ushakova & Mukhin (2003). **ST**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **PT**: Stepanova-Kartavenko (1967); Stepanova (1971); Ushakova & Mukhin (2003). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of Siberian pine, 11.VIII.2005 *Kotiranta 20919*; ibid, on corticated spruce, 12.VIII.2005 *Kotiranta 20931*; ibid, on dead branch of spruce, 12.VIII.2005 *Kotiranta 20952*; Karpinsk area, Kazansky Kamen mnt. range, eastern slope, old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus racemosa*, *Salix* spp., on fallen trunk of spruce, 21.VIII.1947 *Stepanova* (SVER(F) 45862); Stavishenko (2003). **Is**: Stepanova-Kartavenko (1967); Stepanova (1971). **OU**: Stepanova-Kartavenko (1967); Stepanova (1971). **VP**: Ushakova & Mukhin (2003).

***Trichaptum fuscoviolaceum* (Ehrenb.) Ryvarden**

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Cr, Cshi, Fad, Fhd, Fhm, Frd, Fsm

On *Abies*, *Picea*, *Pinus*, *Larix*. Widely spread and common.

P: Demidova (1963); Stepanova (1971); Ushakova & Mukhin (2003). **KK**: Demidova (1963). **Cl**: Demidova (1963); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki village, on trunk of *Picea*, 17.IX.1994 *Kotiranta 11777*; ibid., on *Abies* 17.IX.1994 *Kotiranta 11793*; Nizhnesrginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo, managed *Betula* spp.-dominated mixed forest with *Populus*, *Sorbus*, *Padus*, *Pinus*, *Salix*, on decorticated pine, together with *Leptosporomyces galzinii*, 19.VIII.2002 *Kotiranta 19698*; ibid, on decorticated fir, 20.VIII.2002 *Kotiranta 19737*; Revda area, Khomutovka, polluted old-growth forest with *Abies*, *Betula*, *Picea*, *Pinus*, *Populus*, on corticated fir, also *Hymenochaete cruenta*, *Hyphoderma setigerum*, 26.VIII.2002 *Kotiranta 19828*; Kotiranta et al. (2007). **Bp**: Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Sisert area, Biological station USU, *Pinus*-dominated, partly relatively luxuriant, fairly old forest, on fallen pine, 13.VIII.1993 *Kotiranta 11005*; ibid., on small, hard, decorticated pine, together with *Skeletocutis amorpha*, *Hyphodontia rimosissima*, 25.VIII.2002 *Kotiranta 19753*; ibid., on small decorticated pine, also *Peniophorella praetermissa*, *Fibricium rude*, *Tomentella* sp., 25.VIII.2002 *Kotiranta 19777*; Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on corticated pine, also *Phlebia gigantea*, *Hyphoderma setigerum*, 27.VIII.2002 *Kotiranta 19890*; Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI**: Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI**: Stepanova (1971); Mukhin (1993). **Ks**: Stepanova (1971). **Nm**: Stepanova (1971). **ST**: Demidova (1963); Stepanova (1971); Ushakova & Mukhin (2003). **PT**: Stepanova (1971); Ushakova & Mukhin (2003). **Kh**: Karpinsk area, Kazansky Kamen mnt. range, eastern slope, old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula*

spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of spruce, 20.VIII.1947 Stepanova (SVER(F) 45880); Stepanova (1971); Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 11.VIII.2005 Kotiranta 20866 & 20925; ibid, on corticated spruce trunk, 12.VIII.2005 Kotiranta 20932. **OU**: Demidova (1963); Stepanova (1971). **VP**: Ushakova & Mukhin (2003).

Trichaptum laricinum (P. Karst.) Ryvarden

LC • MB, NB, SA • Fhm, Frd

On *Larix*, *Picea*, *Pinus sibirica*.

PT: Gari area, Zykova, on *Larix*, 20.VIII.1974 coll. Sirko, det. Mukhin (SVER(F) 48389). **Kh**: Stavishenko (2003); Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 12.VIII.2005 Kotiranta 20953. **Is**: Ushakova & Mukhin (2003). **OU**: Ivdel area, Ous, mesic old-growth *Pinus sibirica*-*Picea*-dominated forest, on Siberian pine, 10.VIII.2006 coll. Shiryayev, det. Mukhin (SVER(F) 57316).

Trichaptum pargamenum (Fr.) G. Cunn.

LC • FS, HB, SB, MB, NB • Cshi, Fhm, Frd, Fsm

On *Betula*, *Padus*, *Populus*. Widely spread and common.

P: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971). **KK**: Stepanova (1971). **Cl**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, on trunk of *Betula*, 17.IX.1994 Kotiranta 11805; Kotiranta et al. (2007). **Bp**: Demidova (1963); Stepanova-Kartavenko (1967); Stepanova (1971); Sisert area, Biological station USU, strongly human influenced grass-herb forest, on dead, erect *Padus*, 27.VIII.2002 Kotiranta 19862; Sisert area, Dvurechensk, radioactive (natural) forest with *Pinus*, *Betula* spp., on small birch, also *Daedaleopsis tricolor*, *Fomes fomentarius*. 27.VIII.2002 Kotiranta 19885; Stavishenko (2000, 2006); Kotiranta et al. (2007). **PI**: Demidova (1963); Stepanova (1971); Mukhin (1993); Mukhin et al. (2003); Kotiranta et al. (2007). **NI**: Stepanova (1971); Mukhin (1993). **Ks**: Stepanova (1971). **Nm**: Stepanova (1971). **ST**: Demidova (1963); Stepanova (1971). **PT**: Stepanova (1971). **Kh**: Stepanova-Kartavenko (1967); Stepanova (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen trunk of birch, 21.VIII.1947 Stepanova (SVER(F) 46836); Stavishenko (2003). **Is**: Stepanova (1971). **OU**: Stepanova (1971); Ivdel area, Ous, on *Betula*, 7.VIII.2007 Shiryayev (SVER(F) 58828).

****Tubulicrinis angustus*** (D.P. Rogers & Weresub) Donk

LC • HB, SB • Fhmv

On *Pinus*.

Cl: Shalya area, Shigaevo, mesic old-growth heath forest, on fallen trunk of pine, 14.VIII.2007 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 58096). **PI:** Talitsa area, Budka, pine–birch heath forest, on branch of pine, 20.VIII.1968 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 47972).

Tubulicrinis borealis J. Erikss.

LC • SB, MB • Fhm

On coniferous trees.

Cl: Shiryayev & Stavishenko (2008). **ST:** Stepanova (1971). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on decorticated trunk of spruce, 11.VIII.2005 *Kotiranta* 20963.

Tubulicrinis calothrix (Pat.) Donk

LC • HB, SB, MB, NB • Fhd, Fhm, Fhmv

On *Abies*, *Picea*, *Pinus*.

P: Stepanova (1971). **Cl:** Stepanova (1971). **PI:** Mukhin (1993); Mukhin et al. (2003). **Ks:** Kushva area, W slope of Kachkanar mnt., mesic old-growth heath forest, on fallen trunk of pine, 9.IX.1998 coll. *Shiryayev*, det. *Stavishenko* (SVER(F) 54805). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 11.VIII.2005 *Kotiranta* 20872; *ibid*, on corticated spruce, 12.VIII.2005 *Kotiranta* 20965.

Tubulicrinis glebulosus (Fr.) Donk

LC • SB, MB, NB • Fhm, Frd

On deciduous- & coniferous trees.

Bp: Sisert area, Biological station USU, on *Pinus*, 27.VIII.2006 *Kotiranta* & *Shiryayev* (SVER(F) 57853). **NI:** Mukhin (1993). **Kh:** Stepanova (1971). **OU:** Ivdel area, Pelym, on *Betula*, 25.VIII.1980 coll. *Stepanova*, det. *Almanaite* (SVER(F) 49269).

Tubulicrinis medius (Bourdot & Galzin) Oberw.

LC • SB • Fhm

On *Picea* & *Pinus*.

Cl: Shiryayev & Stavishenko (2008). **Ks:** Kushva area, Kedrovka mnt., on *Pinus*, 18.VIII.1974 coll. *Sirko*, det. *Parmasto* (SVER(F) 49979).

Tubulicrinis sororius (Bourdot & Galzin) Oberw.

Syn. *Peniophora juniperina* (Bourdot & Galzin) Bourdot & Galzin

LC • SB, MB • Fhdv

On *Pinus* & *Juniperus*.

Bp: Nevyansk area, S coast of Tavatuy Lake, old-growth dry heath forest with *Pinus*, *Picea*, *Betula* spp., *Populus*, *Tilia*, *Sorbus*, *Juniperus*, on juniper, 30.VII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57785). **Is:** Stepanova (1971).

****Tubulicrinis strangulatus*** K.H. Larss. & Hjortstam

LC • SB, MB • Fhm

On *Pinus* & *Picea*.

Bp: Nevjansk area, Petr Gronskey mnt., on *Pinus*, 2.IX.1980 coll. *Stepanova*, det. *Kotiranta* (SVER(F) 49129). **Kh:** Ivdel area, Molebny Kamen mnt. range, eastern slope of Oykachakhl mnt., mixed forest with *Pinus sibirica*, *P. sylvestris*, *Abies*, *Picea*, *Betula* spp., *Sorbus*, *Padus*, *Salix* spp., on fallen spruce, 11.VIII.2005 *Kotiranta* 20917a.

Tubulicrinis subulatus (Bourdot & Galzin) Donk

LC • FS, HB, SB, MB, NB • Fhd, Fhm

On *Abies* & *Pinus*. Widely spread.

P: Achit area, Korzunovka, on *Abies*, 28.VIII.1968 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 48850). **Bp:** Nevjansk area, S coast of Tavatuy lake, mesic heath forest, on *Pinus*, 6.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 57721). **NI:** Tugulym area, «Pripyshminsk Bory», on *Pinus sibirica*, 4.IX.1970 coll. *Sirko*, det. *Stepanova* (SVER(F) 48956). **Ks:** Kachkanar area, Kachkanar mnt., on *Abies*, VIII.1962 coll. *Storozheva*, det. *Almanaite* (SVER(F) 47608). **Kh:** Severouralsk area, «Denezhkin Kamen» Nat. Res., on *Pinus*, 17.VIII.1970 coll. *Stepanova*, det. *Parmasto* (SVER(F) 49003). **Is:** Stepanova (1971). **OU:** Ivdel area, Ous, old-growth dry heath forest, on *Pinus sibirica*, 10.VIII.2006 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 58457).

****Tubulicrinopsis ellipsospora*** Kotir., Hjortstam & M. Kulju

NE • SB • Fhdv

On *Pinus*.

Bp: Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, old dry heath forest, on decorticated pine, together with *Gloeophyllum abietinum*, *Peniophorella praetermissa*, *Antrodia sinuosa*, *Fomitopsis pinicola*, 27.VIII.2002 *Kotiranta* 19852.

****Tulasnella allantospora*** Wakef. & A. Person

LC • SB, MB • Fhd, Fhm

On *Abies* & *Picea*.

Ks: Kushva area, N slope of Kachkanar mnt., dry heath forest, on fallen trunk

of *Picea*, with *Botryobasidium obtusisporum*, 29.VIII.1960 coll. *Stepanova*, det. *Almanaite* (SVER(F) 40980). **Kh**: Ivdel area, Molebny Kamen mnt. range, mesic old-growth heath forest with spruce, fir, Siberian pine, aspen, birch, grey alder, on trunk of *Abies*, 11.VIII.2005 *Kotiranta* 20820a.

****Tulasnella bourdotii*** Jülich

LC • SB, MB • Fhd

On *Pinus*.

Bp: Sisert area, Biological station USU, dry heath forest, on pine, 3.VIII.2004 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42169). **Is**: Ivdel area, Vsevolodo-Blagodatskoje, on Siberian pine, 16.VIII.1967 coll. *Kazantseva*, det. *Almanaite* (SVER(F) 40892).

****Tulasnella cystidiophora*** Höhn. & Litsch.

DD • SB • Fhmv

On *Populus* & *Salix*.

Cl: Nizhneserginsk area, Mikhailovsk Zavod, *Salix*, 9.IX.1971 coll. *Sirko*, det. *Raitviir* (SVER(F) 41053); Shalya area, Shigaev, mesic old-growth heath forest, on aspen, 3.IX.2000 coll. *Shiryayev*, det. *Govorova* (SVER(F) 42016).

****Tulasnella deliquescens*** (Juel) Juel

LC • AL • Fam

On *Juniperus*.

Kh: Ivdel area, Molebny Kamen mnt. range, open tundra with «flag-formed» shrubs of *Juniperus sibirica*, *Picea* and *Betula nana*, on juniper, 16.VIII.2005 *Kotiranta* 20898.

Tulasnella eichleriana Bres.

Syn. *Tulasnella lactea* Bourdot & Galzin

LC • HB, SB, MB, NB • Fhm, Frd

On coniferous & deciduous trees.

P: Krasnoufimsk area, Sarana, on aspen, 30.VIII.1999 coll. *Golumbievskaya*, det. *Almanaite* (SVER(F) 41469). **Cl**: *Stepanova* (1971). **Kh**: Severouralsk area, «Denezhkin Kamen» Nat. Res., on Siberian pine, 21.VIII.1968 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40800); Ivdel area, Molebny Kamen mnt. range, on *Picea*, 16.VIII.2005 *Kotiranta* 20802b. **Is**: *Stepanova* (1971).

****Tulasnella fuscoviolacea*** Bres.

LC • HB, SB • Fhmv

On *Pinus*, *Salix*.

Bp: Sisert area, Biological station USU, mesic old-growth pine-dominated forest, on *Salix*, 27.VIII.2004 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42570). **PI:** Tugulym area, Troshkovo, on pine, 16.VIII.1969 coll. *Sirko*, det. *Raitviir* (SVER(F) 40872).

****Tulasnella permacra*** P. Roberts

LC • MB • Frdv

On *Betula*.

Kh: Ivdel area, Molebny Kamen mnt. range, old-growth *Picea*-dominated mesic herb-rich forest, on trunk of *Betula pendula* with *Botryobasidium subcoronatum*, 16.VIII.2005 *Kotiranta* 20889a.

****Tulasnella pinicola*** Bres.

LC • SB, MB, NB • Fhm, Frd

On *Betula*, *Pinus*.

Bp: Nevjansk area, Tavatuy Lake, on *Pinus*, 13.VIII.1970 coll. *Sirko*, det. *Raitviir* (SVER(F) 41161). **Ks:** Kachkanar mnt., on *Pinus*, 6.IX.1971 coll. *Sirko*, det. *Raitviir* (SVER(F) 41331). **Kh:** Ivdel area, Molebny Kamen mnt. range, on *Betula*, 13.VIII.2005 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42576).

Tulasnella pruinosa Bourdot & Galzin

LC • FS, HB, SB, MB • Fhm, Frd

On deciduous trees. Widely spread.

P: Stepanova (1971). **Cl:** Nizhneserginsk area, Bazhukovo, on *Sorbus*, 25.VIII.2008 *Almanaite* (SVER(F) 42646). **Bp:** Nevjansk area, W coast of Tavatuy Lake, on *Alnus*, 12.VIII.1970 coll. *Sirko*, det. *Raitviir* (SVER(F) 41033). **NI:** Stepanova (1971). **PT:** Gari area, Zykova, on *Padus*, 26.VIII.1966 coll. *Sirko*, det. *Govorova* (SVER(F) 41089). **Is:** Severouralsk area, Bajanovka, on *Padus*, 6.VIII.2006 *Kotiranta & Mukhin* (SVER(F) 42809).

****Tulasnella cf. subglobispora*** Hjortstam

NE • SB • Fhmv

On litter in coniferous and deciduous forest.

Cl: Nizhneserginsk area, 7 km S of Nizhniye Sergi, NW slope of Bardym mnt. range, mesic old-growth herb-rich forest with *Abies*, *Pinus*, *Tilia*, *Populus*, *Sorbus aucuparia*, *Rosa* spp., on fallen branch of deciduous tree, litter and grasses, 8.IX.2004 coll. *Ushakova*, det. *Almanaite* (SVER(F) 42744).

****Tulasnella thelephorea*** (Juel) Juel

LC • HB, SB • Fhd

On *Pinus*.

P: Krasnoufimsk area, on pine together with *Botryobasidium vagum*, 20.IX.1968 coll. *Stepanova*, det. *Raitviir* (SVER(F) 40831). **NI:** Irbit area, Yelan', on pine together with *B. vagum* 12.VIII.1973 *Sirko*, det. *Almanaite* (SVER(F) 40539).

****Tulasnella tomaculum*** P. Roberts

LC • SB • Fhm

On *Pinus*.

Bp: Sisert area, Biological station USU, mesic old-growth *Pinus*-dominated heath forest, 3.IX.2002 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42452).

Tulasnella violea (Quél.) Bourdot & Galzin

Syn. *Tulasnella incarnata* sensu auct.

LC • FS, HB, SB, MB, NB • Fhm, Frd

On deciduous & coniferous trees, litter and dead fruitbodies of polypores. Widely spread.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on *Acer*, 2.IX.1999 coll. *Golumbievskaya*, det. *Govorova* (SVER(F) 41276). **Cl:** *Stepanova* (1971). **Bp:** Nevjansk area, Tavatuy lake, on *Picea*, 7.VIII.1974 *Sirko* (SVER(F) 40656). **PI:** Talitsa area, «Pripyshminsk Bory» Nat. Park, on bark of pine and lichens, 22.VIII.1968 *Stepanova* (SVER(F) 40375). **Ks:** Kushva area, Kedrovka mnt., on *Betula*, on dead fruitbody of *Fomes fomentarius*, 30.VIII.1970 coll. *Stepanova*, det. *Raitviir* (SVER(F) 41072). **Is:** Severouralsk area, Vsevolodo-Blagodatskoje, on fallen *Alnus* and litter, 19.VIII.1968 coll. *Kazantseva*, det. *Raitviir* (SVER(F) 41105). **OU:** Ivdel area, Ous, on aspen, 7.VIII.2007 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 42581).

Tylospora asterophora (Bonord.) Donk

LC • HB, SB, MB • Fhm, Frd

On *Betula*, *Pinus*.

P: Achit area, Korzunovka, on *Betula*, 28.VIII.1960 coll. *Stepanova*, det. *Stavishenko* (SVER(F) 46712). **Cl:** *Shiryayev* & *Stavishenko* (2008). **Bp:** *Stepanova* (1971). **Ks:** Kushva area, Kedrovka mnt., on *Pinus*, 2.IX.1974 coll. *Sirko*, det. *Stepanova* (SVER(F) 48985). **Is:** Severouralsk area, Bajanovka, on *Pinus sibirica*, 6.VIII.2005 *Mukhin* & *Kotiranta* (SVER(F) 55713).

Tylospora fibrillosa (Burt) Donk

LC • SB, MB, NB, SA, AL • Fhm, Frd

On *Picea* & *Pinus*.

Cl: Nizhneserginsk area, Mikhailovsk, W slope of Bardym mnt., on *Picea*, 3.IX.1970 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 49778). **Bp:** *Stepanova* & *Mukhin* (1979). **ST:** *Stepanova* (1971). **Kh:** Ivdel area, Molebny Kamen mnt. range,

southern slope of Oykachakhl mnt. (1000 m a.s.l.), mnt. tundra, on *Picea* twigs, 13.VIII.2005 *Kotiranta 20893*. **Is:** Stepanova (1971).

Typhula abietina (Fuckel) Corner

LC • SB, MB • Fhd, Fhm, Mlm

On fallen pine needles. Widely spread.

Cl: Shiryayev (2006a). **Bp:** Shiryayev (2004b, 2006a, 2007f). **PI:** Mukhin et al. (2003); Shiryayev (2004b, 2006a). **Ks:** Shiryayev (2004b, 2006a) **Is:** Shiryayev (2004b, 2006a).

Typhula anceps P. Karst.

LC • HB, SB, MB, NB • Cr, Fhm, Frd, Frm, M, Slf

On dead fallen leaves of *Betula*, *Corylus*, *Populus*, *Salix*, *Ulmus*. Widely spread.

P: Krasnoufimsk area, Sargaja, on *Corylus*, 28.VIII.1970 coll. *Kazantseva*, det. *Shiryayev 8784*. **Cl:** Shiryayev (2004b, 2006a, 2007f); Shalya area, Shigaevo, on *Ulmus*, 3.IX.2000 *Shiryayev 7144*. **Bp:** Shiryayev (2004b, 2006a). **PI:** Mukhin et al. (2003). **ST:** Gari area, on *Betula*, 12.VIII.1966 coll. *Sirko*, det. *Shiryayev 8703*. **Kh:** Shiryayev (2006a). **Is:** Shiryayev (2006a). **OU:** Ivdel area, Ous, on aspen, 10.VIII.2006 *Shiryayev 8848*.

Typhula capitata (Pat.) Berthier

LC • FS, HB, SB, MB, NB, SA • Cp, M, S

On grasses. Widely spread, but not common.

P: Shiryayev (2007b). **Cl:** Shiryayev (2004b, 2006a, 2007b, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **PT:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Typhula caricina P. Karst.

LC • FS, HB, SB, MB, NB, SA, AL • M, Frm, S

On *Carex*. Widely spread and common.

P: Shiryayev (2006a). **KK:** Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a, 2007b). **OU:** Shiryayev (2006a).

Typhula chamaemori L. Holm & K. Holm

LC • MB, NB, SA, AL • Ah, Am, Md, Ml

On decayed leaves of *Rubus chamaemorus*, *R. arcticus*.

Ks: Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Typhula crassipes Fuckel.

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Cshi, Fam, Fhm, Frd, Fsm

On fallen leaves and herbs. Widely spread and common.

P: Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Typhula culmigena (Mont. & Fr.) Berthier

LC • FS, HB, SB, MB, NB, SA, AL • Ah, Cp, Cr, Cshi, Cw, Fam, Fhm, Frd, Frm, M

On dead herbs and grasses. Widely spread and common.

P: Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007b, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Typhula erythropus (Pers.: Fr.) Fr.

LC • FS, HB, SB, MB, NB, SA • Ah, Cp, Cr, Cshi, Cw, Fam, Fhm, Frd, Frm, M, Rg, Rs, Sif

On fallen leaves of *Acer*, *Alnus*, *Betula*, *Populus*. Widely spread and common.

P: Shiryayev (2006a). **KK:** Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a, 2007b, 2007f). **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Typhula euphorbiae (Fuckel) Fr.

NT C1+2b • FS, HB, SB • Cp, STh, STm

In steppe- and urban environments on *Euphorbia* spp.

KK: Shiryayev (2006a). **Bp:** Shiryayev (2004b, 2006a, 2007b). **PI:** Shiryayev (2004b, 2006a).

Typhula graminum P. Karst.

LC • FS, HB, SB, MB, NB, SA • Cp, Cshi, Cw, Fhm, Frd, Frm, M, Sif

On Poaceae. Widely spread and common.

P: Shiryayev (2006a). **KK:** Shiryayev (2006a). **Cl:** Shiryayev (2004b, 2006a, 2007f);

Shiryayev & Stavishenko (2008). **Bp**: Shiryayev (2004b, 2006a, 2007b). **PI**: Mukhin et al. (2003); Shiryayev (2006a). **NI**: Shiryayev (2006a). **Ks**: Shiryayev (2006a). **Nm**: Shiryayev (2006a). **ST**: Shiryayev (2006a). **PT**: Stepanova (1971); Shiryayev (2006a). **Kh**: Shiryayev (2004b, 2006a, 2006b). **Is**: Shiryayev (2004b, 2006a). **OU**: Shiryayev (2006a).

Typhula hollandii D.A. Reid

LC • HB, SB • Fhmv

On fallen trunks of *Abies*.

P: Shiryayev (2006a). **CI**: Shiryayev (2006a).

Typhula hyalina (Quél.) Berthier

LC • FS, HB, SB, MB • Fhm, Frd, M

On herbs, grasses and *Equisetum*. Widely spread.

P: Shiryayev (2006a). **CI**: Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp**: Shiryayev (2004b, 2006a). **PI**: Shiryayev (2006a, 2007c). **Nm**: Shiryayev (2006a). **Is**: Shiryayev (2004b, 2006a).

Typhula incarnata Lasch & Fr.

LC • HB, SB, MB, NB, SA, AL • Am, Fhm, Frd, Frm, Sls

Obligate parasite on grasses. Widely spread and common.

P: Shiryayev (2006a). **CI**: Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp**: Stepanova & Mukhin (1979); Shiryayev (2004b, 2006a, 2007b). **PI**: Stepanova (1971), Mukhin et al. (2003); Shiryayev (2006a). **Ks**: Shiryayev (2006a). **ST**: Shiryayev (2006a). **Kh**: Shiryayev (2004b, 2006a, 2006b). **Is**: Shiryayev (2004b, 2006a).

Typhula ishikariensis S. Imai

Syn. ? *Typhula humulina* Kuznetsova, ? *T. idahoensis* Remsberg

LC • HB, SB, MB, NB, SA • Cc, Cm, Cp

Obligate parasite on herbs and grasses.

CI: Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp**: Shiryayev (2004b, 2006a, 2007b). **PI**: Mukhin et al. (2003); Shiryayev (2006a). **Nm**: Shiryayev (2006a). **Kh**: Shiryayev (2004b, 2006a). **Is**: Shiryayev (2004b, 2006a).

Typhula lutescens Boud.

LC • HB, SB, MB, NB, SA, AL • Ah, Fam, Fhm, Frd, Frm, M, Slf

On fallen leaves, herbs, grasses. Widely spread and common.

P: Shiryayev (2006a). **CI**: Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp**: Shiryayev (2004b, 2006a, 2007b). **PI**: Mukhin et al. (2003); Shiryayev

(2006a). **NI:** Shiryayev (2006) **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a, 2007b). **OU:** Shiryayev (2006a).

Typhula micans (Pers.: Fr.) Berthier

LC • FS, HB, SB, MB, NB, SA • Cp, Cshi, Cr, Cw, Fhd, Fhm, Frd, Frm, Fsd, Fsm
On fallen leaves, herbs, grasses. Widely spread and common.

P: Shiryayev (2006a). **KK:** Shiryayev (2006a). **CI:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a, 2007b). **PI:** Stepanova (1971); Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **Is:** Shiryayev (2004b, 2006a).

Typhula olivascens Berthier

LC • FS, HB, SB • Fhm, Frm, Sif

On dead petioles of ferns, especially *Athyrium*.

P: Shiryayev (2006a). **CI:** Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a); Sisert area, Biological station USU, Sisert river valley, on dead petioles of ferns, 4.IX.2002 *Shiryayev 8600*. **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a).

Typhula pachypus Berthier

NT B2b(ii,iii,iv); C2a(i) • HB, SB • Fhmv, Frdv

On fallen leaves of deciduous trees, like *Acer*, *Corylus*.

P: Krasnoufimsk area, Sargaja, mesic old-growth mixed herb-rich forest with *Pinus*, *Tilia*, *Ulmus*, *Corylus*, *Rhamnus cathartica*, on fallen leaves of hazel, 9.IX.1998 *Shiryayev 8505*; Shiryayev (2006a). **CI:** Shiryayev (2006a).

Typhula phacorrhiza (Reichard: Fr.) Fr.

LC • FS, HB, SB, MB, NB, SA • Fhm, Frd, Frm, Sif

On soil and fallen leaves. Widely spread and common.

P: Shiryayev (2006a). **CI:** Stepanova-Kartavenko (1967); Stepanova (1971); Shiryayev (2004b, 2006a, 2007); Shiryayev & Stavishenko (2008). **Bp:** Shiryayev (2004b, 2006a, 2007b); **PI:** Mukhin et al. (2003); Shiryayev (2006a). **NI:** Shiryayev (2006a). **Ks:** Shiryayev (2006a). **Nm:** Shiryayev (2006a). **ST:** Shiryayev (2006a). **PT:** Shiryayev (2006a). **Kh:** Shiryayev (2004b, 2006a, 2006b). **Is:** Shiryayev (2004b, 2006a). **OU:** Shiryayev (2006a).

Typhula piceicola Berthier

LC • HB, SB • Frdv

On decaying herbs, ferns, leaves of *Angelica*, *Chaerophyllum*, *Rubus*.

P: Shiryaev (2006a). **Cl:** Shiryaev (2006a). **Nm:** Krasnouralsk, Dachny, mesic herb-rich meadow, on *Angelica* sp., 5.IX.2004 Shiryaev 8655.

Typhula quisquiliaris (Fr.) Henn.

LC • FS, HB, SB, MB, NB • Fhm, Frd

On dead petioles of *Pteridium aquilinum*. Widely spread and common.

P: Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko (2008). **CI:** Shiryaev (2006a). **Bp:** Stepanova (1971); Shiryaev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryaev (2006a). **NI:** Shiryaev (2006a) **Ks:** Shiryaev (2006a). **Nm:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **PT:** Shiryaev (2006a). **Kh:** Shiryaev (2006a). **Is:** Shiryaev (2006a). **OU:** Shiryaev (2006a).

Typhula sclerotioides (Pers.) Fr.

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Cm, Cshi, Fhm, Frd, M, Rg, Rs, Sif

On decaying herbs and ferns. Widely spread and common.

P: Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007b, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2004b, 2006a, 2007b). **PI:** Stepanova (1971); Mukhin et al. (2003); Shiryaev (2006a). **NI:** Shiryaev (2006a). **Ks:** Shiryaev (2006a). **Nm:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **PT:** Shiryaev (2006a). **Kh:** Shiryaev (2004b, 2006a, 2006b). **Is:** Shiryaev (2004b, 2006b, 2007b). **OU:** Shiryaev (2006a).

Typhula setipes (Grev.) Berthier

Syn. *Clavaria gyrans* Batsch, *C. pusilla* Pers., *Pistillaria diaphana* (Schumach.) Fr., *P. maculicola* Peck, *Typhula grevillei* Fr., *T. ovata* P. Karst., *T. pragensis* Pilát.

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Cshi, Cw, Fam, Fhm, Frd, Fsm, M, Rg, Sif
On fallen leaves of *Acer*, *Alnus*, *Betula*, *Corylus*, *Malus*, *Padus*, *Populus*, *Rubus*, *Salix*, *Sorbus*,

P: Shiryaev (2006a). **KK:** Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007b); Shiryaev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979); Shiryaev (2004b, 2006a, 2007b). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Mukhin et al. (2003); Shiryaev (2006a). **NI:** Shiryaev (2006a). **Ks:** Shiryaev (2006a). **Nm:** Shiryaev (2006a). **ST:** Shiryaev (2006a). **PT:** Shiryaev (2006a). **Kh:** Shiryaev (2004b, 2006a, 2006b). **Is:** Shiryaev (2004b, 2006a, 2007b). **OU:** Shiryaev (2006a).

Typhula spathulata (Peck) Berthier

LC • FS, HB, SB, MB, NB, SA • Cp, Cshi, Cw, Fhm, Frd, Frm, M

On fallen twigs of *Alnus*, *Salix*, *Corylus*, *Crataegus*.

P: Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007f); Shiryaev & Stavishenko

(2008). **Bp**: Shiryayev (2004b, 2006a, 2007b). **PI**: Mukhin et al. (2003); Shiryayev (2006a). **NI**: Shiryayev (2006a). **Ks**: Shiryayev (2006a). **Is**: Shiryayev (2004b, 2006a, 2006b).

Typhula sphaeroidea Remsberg

NT C1+2a(i) • HB, SB • Fhm, Frm

On fallen twigs of *Acer*, *Quercus*, *Rubus*.

P: Shiryayev (2006a). **Cl**: Shiryayev (2007f). **Bp**: Shiryayev (2004b, 2006a, 2007b).

PI: Mukhin et al. (2003); Shiryayev (2006a).

Typhula struphiopteridis Corner

LC • HB, SB, MB • Fhm, Frm, Sif

On dead petioles of *Matteuccia struthiopteris*.

Cl: Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp**: Shiryayev (2004b, 2006a). **PI**: Mukhin et al. (2003); Shiryayev (2006a). **Ks**: Shiryayev (2006a).

Kh: Shiryayev (2004b, 2006a). **Is**: Shiryayev (2004b, 2006a).

Typhula subvariabilis Berthier

LC • HB, SB • Fhm, Frd

On decaying leaves of *Corylus*, *Sorbus*, *Ulmus*.

P: Shiryayev (2006a). **Cl**: Shiryayev (2004b, 2006a); Shiryayev & Stavishenko (2008).

Bp: Shiryayev (2006a). **PI**: Shiryayev (2006a, 2007c). **NI**: Shiryayev (2006a). **Ks**: Shiryayev (2006a).

Typhula todei Fr.

Syn. *Typhula athyrii* Remsberg

LC • HB, SB, MB, NB, SA • Fhd, Fhm, Frd, Frm

On dead petioles of *Athyrium*, *Dryopteris*. Widely spread and common.

P: Shiryayev (2006a). **Cl**: Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp**: Shiryayev (2004b, 2006a). **PI**: Mukhin et al. (2003). **NI**: Shiryayev (2006a). **Ks**: Shiryayev (2006a). **Nm**: Shiryayev (2006a). **ST**: Shiryayev (2006a).

PT: Shiryayev (2006a). **Kh**: Shiryayev (2004b, 2006a). **Is**: Shiryayev (2004b, 2006a, 2007). **OU**: Shiryayev (2006a).

Typhula trifolii Rostrup

LC • FS, HB, SB, MB • Cp, Fhm, Frd, Frm

Facultative parasite of herbs, especially Fabaceae.

P: Shiryayev (2006a). **Cl**: Shiryayev (2004b, 2006a, 2007f); Shiryayev & Stavishenko (2008). **Bp**: Shiryayev (2004b, 2006a, 2007b). **PI**: Mukhin et al. (2003); Shiryayev (2006a). **Ks**: Shiryayev (2006a). **Kh**: Shiryayev (2004b, 2006a). **Is**: Shiryayev (2004b, 2006a).

Typhula uncialis (Grev.) BerthierSyn. *Clavaria typhuloides* Peck, *Typhula falcata* P. Karst.**LC** • FS, HB, SB, MB, NB, SA, AL • Am, Fa, Fhd, Fhm, Frd, Frm, Fs, M, SlfOn dead herbs, especially *Chamaenerion (Epilobium) angustifolium*. Widely spread and common.**P:** Stepanova (1971); Shiryaev (2006a). **KK:** Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007b, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Stepanova & Mukhin (1979); Shiryaev (2004b, 2006a, 2007b). **PI:** Stepanova (1971); Mukhin et al. (2003); Shiryaev (2006a). **NI:** Stepanova (1971); Shiryaev (2006a). **PT:** Shiryaev (2006a). **PS:** Shiryaev (2006a). **Kh:** Shiryaev (2004b, 2006a, 2006b). **Is:** Stepanova (1971); Shiryaev (2004b, 2006a). **OU:** Shiryaev (2006a).***Typhula variabilis*** RiessSyn. *Typhula beta* Rostr.**LC** • FS, HB, SB, MB, NB, SA, AL • Ah, Am, Cc, Cp, Cshi, Cw, Fhd, Fhm, Frd, Frm, M, Slaf

On dead herbs and grasses. Widely spread and common.

P: Shiryaev (2006a). **KK:** Shiryaev (2006a). **Cl:** Shiryaev (2004b, 2006a, 2007b, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2004b, 2006a, 2007b). **PI:** Mukhin et al. (2003); Shiryaev (2006a). **NI:** Stepanova (1971); Shiryaev (2006a). **PT:** Shiryaev (2006a). **PS:** Shiryaev (2006a). **Kh:** Shiryaev (2004b, 2006a). **Is:** Stepanova (1971); Shiryaev (2004b, 2006a). **OU:** Shiryaev (2006a).***Typhula viticola*** (Peck) BerthierSyn. *Typhula muelleri* (Sauter) Corner**LC** • SB, MB • Cp, Fhm

On herbs. Mostly on mountainous areas.

Cl: Shiryaev (2006a, 2007f); Shiryaev & Stavishenko (2008). **Bp:** Shiryaev (2004b, 2006a, 2007b, 2007f). **Ks:** Shiryaev (2006a). **Kh:** Shiryaev (2006a).***Tyromyces chioneus*** (Fr.) P. Karst.Syn. *Tyromyces albellus* (Peck) Bondartsev & Singer**LC** • HB, SB, MB, NB • Fhm, FrdOn *Betula*.**Cl:** Stepanova-Kartavenko (1967). **Bp:** Stavishenko (2000); Stavishenko (2006); Sisert area, Biological station USU, on birch, with *Tremella polyporina* as parasite, 6.IX.2003 *Ushakova 1093*. **PI:** Mukhin et al. (2003). **NI:** Stepanova-Kartavenko (1967). **Kh:** Stepanova-Kartavenko (1967); Stavishenko (2003). **Is:** Stepanova-Kartavenko (1967).****Tyromyces fumidiceps*** G. F. Atk.**VU** D1+2 • HB • Slf

On *Alnus* & *Populus*.

P: Krasnoufimsk area, Sarana, Ufa river valley, on *Alnus glutinosa*, 30.VIII.1999 coll. *Golumbievskaya*, det. *Mukhin* (SVER(F) 51908); Achit area, mesic old-growth forest, slope to Bisert' river valley, on *Populus nigra*, 10.IX.1970 coll. *Kazantseva*, det. *Parmasto* (SVER(F) 49204).

Tyromyces kmetii (Bres.) Bondartsev & Singer

LC • HB, SB, MB, NB • Fhm, Frd

Mostly on deciduous trees, especially *Betula*.

Cl: Nizhneserginsk area, Mikhailovsk, on *Tilia*, 3.IX.1970 coll. *Kazantseva*, det. *Mukhin* (SVER(F) 47473). **Bp:** Stepanova (1971); Stepanova & Mukhin (1979). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Betula*, 26.VIII.1976 coll. *Sirko*, det. *Stavishenko* (SVER(F) 49012). **NI:** Mukhin (1993). **Kh:** Karpinsk area, Konzhakov Kamen mnt. range, 14.VIII.1975 coll. *Sirko*, det. *Mukhin* (SVER(F) 49737). **Is:** Severouralsk area, Bajanovka, on *Alnus*, 6.VIII.2005 *Knudsen & Mukhin* (SVER(F) 57706). **OU:** Ivdel area, Ous, on *Betula*, 10.VIII.2006 *Shiryayev* (SVER(F) 58466).

Tyromyces wynnei (Berk. & Broome) Donk

Syn. *Fibroporia wynnei* (Berk. & Broome) Bondartseva, *Loweomyces wynnei* (Berk. & Broome) Jülich

RE • HB, MB • Frd

On *Betula*, *Acer platanoides*. Not recorded since 1959.

P: Krasnoufimsk area, Sargaja, on *Acer platanoides*, 22.VIII.1959 det. *Solovjev*, det. *Stepanova* (SVER(F) 47942). **Is:** Stepanova (1971) – specimen collected in 1954.

U

****Uncobasidium luteolum*** Hjortstam & Ryvar den

Syn. *Cerocorticium luteolum* (Hjortstam & Ryvar den) Tellería

NE • SB • Fhmv

On *Tilia*.

Cl: Prigorod area, Visim Nat. Res., Galashki, mesic old-growth conifer-deciduous heath forest, on fallen trunk of *Tilia*, 18.IX.1994 *Kotiranta 11834*.



Vararia investiens (Schwein.) P. Karst

LC • HB, SB, MB • Fhm

Mostly on conifers, rarely on deciduous trees. Widely spread.

P: Krasnoufimsk area, Sarana, on *Pinus*, 22.VIII.1960 *Stepanova* (SVER(F) 47579). **Cl:** Shiryaev & Stavishenko (2008). **PI:** *Stepanova* (1971). **NI:** Mukhin (1993). **Ks:** Kushva area, Kedrovka mnt., on *Abies*, 20.VIII.1975 coll. *Sirko*, det. *Mukhin* (SVER(F) 49975). **ST:** Verkhoturys, Vostochny, on aspen, 24.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 47082). **Kh:** *Stepanova* (1971). **OU:** Ivdel area, Pelym, on *Pinus*, 25.VIII.1980 *Stepanova* (SVER(F) 48495).

Vararia ochroleuca (Bourd. & Galz.) Donk

NT A3c; B2ab(ii,iv) • HB, SB • Fhd

On *Juniperus*, *Sorbus*.

P: *Stepanova* (1971). **Bp:** Nevjansk area, S coast of Tavatuy Lake, old-growth *Pinus sylvestris* dominated dry forest with *Juniperus communis*, on dead fallen branches of *Sorbus aucuparia* and juniper, 29.VII.2006 coll. *Shiryaev*, det. *Stavishenko* (SVER(F) 57669). **Cl:** *Stepanova* (1971).

Veluticeps abietina (Pers.) Hjortstam & Telleria

Syn. *Stereum abietinum* (Pers.) Fr., *Colymnocystis abietina* (Pers. : Fr.) Maire

LC • HB, SB, MB, NB • Frd, Fhmv

Mostly on *Picea*, rarely on *Abies*, *Pinus*. Widely spread and common.

P: Achit area, Korzunovka, on *Abies*, 3.IX.1975 coll. *Sirko*, det. *Mukhin* (SVER(F) 49522). **Cl:** Demidova (1963); *Stepanova-Kartavenko* (1967); *Stepanova* (1971); *Shiryaev & Stavishenko* (2008). **Bp:** Demidova (1963); *Stepanova* (1971); *Stepanova & Mukhin* (1979). **PI:** Tugulym area, «Pripyshminsk Bory» Nat. Park, on *Pinus sibirica*, 24.VIII.1968 coll. *Sirko*, det. *Parmasto* (SVER(F) 48879). **NI:** *Stepanova* (1971). **Nm:** Demidova (1963); *Stepanova-Kartavenko* (1967). **Kh:** *Stepanova* (1971); Karpinsk area, Kazansky Kamen mnt. range, eastern slope, old-growth forest with *Abies*, *Pinus sibirica*, *P. sylvestris*, *Picea*, *Betula* spp., *Populus*, *Sorbus*, *Padus*, *Salix* spp., on fallen fir, 21.VIII.1947 *Stepanova* (SVER(F) 46445). **Is:** *Stepanova-Kartavenko* (1967); *Stepanova* (1971); Severouralsk area, Bajanovka, on *Picea*, 6.VIII.2005 *Mukhin & Kotiranta* (SVER(F) 57321).

Vesiculomyces citrinus (Pers.) E. Hagstr.

Syn. *Gloiothele citrina* (Pers.) Ginns & Freeman, *Gloeocystidium alutaceum* (Schrad. ex J.F. Gmel.) Bourdot & Galzin,

LC • FS, HB, SB, MB, NB, SA, AL • Cp, Fad, Fhd, Fhm, Frd, Fsm

On coniferous and deciduous trees. Widely spread and very common.

P: Stepanova (1971). **KK:** Stepanova (1971). **CI:** Stepanova-Kartavenko (1967); Stepanova (1971); Prigorod area, Visim Nat. Res., Galashki, on fallen *Picea*, 18.IX.1994 *Kotiranta 11769 & 11829*; Stavishenko (2006); Shiryayev & Stavishenko (2008). **Bp:** Demidova (1963); Stepanova-Kartavenko (1967); Sisert area, Biological station USU, *Pinus*-dominated, relatively poor, fairly old forest, on hard, decorticated pine branch, together with *Phlebiella sulphurea*, 25.VIII.2002 *Kotiranta 19743*; *ibid.*, on decorticated pine branch, together with *Phlebiella sulphurea*, *Botryobasidium vagum*, *Hyphodontia cf. rimosissima*, 25.VIII.2002 *Kotiranta 19745*; *ibid.*, on decorticated, partly charred pine, together with *Botryobasidium subcoronatum*, *Hyphoderma argillaceum*, 25.VIII.2002 *Kotiranta 19763b*; *ibid.*, on decorticated, partly charred pine, also *Botryobasidium subcoronatum*, *Hyphoderma argillaceum*, 25.VIII.2002 *Kotiranta 19764*; *ibid.*, on decorticated pine branch, together with *Trechispora stellulata*, *Botryobasidium subcoronatum*, *Phlebiella sulphurea*, 25.VIII.2002 *Kotiranta 19768*; *ibid.*, yard with *Quercus* etc., on decorticated pine, also *Resinicium bicolor*, *Phlebiella sulphurea*, 25.VIII.2002 *Kotiranta 19792*. **NI:** Stepanova-Kartavenko (1967); Stepanova (1971). **PI:** Stepanova (1971). **Kh:** Ivdel area, Molebny Kamen mnt. range, old-growth *Picea*-dominated mesic forest, on fallen fir, 15.VIII.2005 *Kotiranta 20927*. **Is:** Stepanova (1971). **OU:** Ivdel area, Ous, old-growth *Picea*-dominated mesic forest, on fallen branch of Siberian pine, 7.VIII.2007 coll. *Shiryayev*, det. *Kotiranta* (SVER(F) 55801).

Vuilleminia comedens (Nees) Maire

Syn. *Vuilleminia alni* Boidin, Lanquetin & Gilles

LC • FS, HB, SB, MB, NB • Cp, Fhm, Frd

On deciduous trees, mostly *Alnus*, *Betula*, *Quercus*. Widely spread.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», on oak, 29.VIII.1970 coll. *Stepanova*, det. *Mukhin* (SVER(F) 46842). **CI:** Mukhin & Ushakova (2001). **Bp:** Demidova (1963); Stepanova (1971); Stepanova & Mukhin (1979); Ekaterinburg, Botanical Garden RAS, on *Quercus mongolicum* (cult.), 30.X.2008 coll. *Almanaite*, det. *Stavishenko* (SVER(F) 58847). **PI:** Stepanova-Kartavenko (1967); Stepanova (1971); Tugulym area, «Pripyshminsk Bory» Nat. Park, «Bakhmetskoje Bog», on *Alnus glutinosa*, 21.IX.2002 coll. *Shiryayev*, det. *Mukhin* (SVER(F) 54789). **NI:** Mukhin (1993). **Ks:** Kushva area, Kedrovka mnt., on *Alnus incana*, 21.VIII.1973 coll. *Sirko*, det. *Stepanova* (SVER(F) 48161). **ST:** Verkhoturkiye, Vostochny, on *Betula*, 23.VIII.1963 coll. *Storozheva*, det. *Stavishenko* (SVER(F) 46860). **Is:** Ivdel area, Polunochnoje, on *Alnus fruticosa*, 18.VIII.2005 *Kotiranta & Shiryayev* (SVER(F) 57344).

**Vuilleminia coryli* Boidin, Lanquetin & Gilles

NT C1+2a(i) • HB • Frdv

On *Corylus*.

P: Krasnoufimsk area, Sarana, on *Corylus*, 1.IX.1999 coll. *Golombievskaya*, det. *Almanaite* (SVER(F) 52146); *ibid.*, Chernaya Rechka, on *Corylus*, 15.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 58127).

Vuilleminia macrospora (Bres.) Hjortstam

Syn. *Aleurodiscus macrosporum* (Bres.) Bres.

LC • HB, SB • Fhmv

On *Corylus* & *Swida*.

P: Stepanova (1971). **Cl:** Nizhneserginsk area, 7 km S of Nizhniye Sergi town, mesic old-growth *Abies*-dominated forest intermixed with *Tilia*, *Sorbus*, *Ulmus*, on branch of *Swida alba*, 8.IX.2004 coll. *Ushakova*, det. *Almanaite* (SVER(F) 56179).

W

Woldmaria flicina (Peck) Knudsen

Syn. *Solenia crocea* P. Karst.

LC • SB, MB • Frd

On *Matteuccia struthiopteris*.

Cl: Stepanova (1971); Shalya area, Shigaev, 9.VIII.2006 coll. *Shiryayev*, det. *Almanaite* (SVER(F) 56694). **Is:** Severouralsk area, Bajanovka, 6.VIII.2005 *Knudsen* & *Mukhin* (SVER(F) 56165).

X

****Xenasma pruinosum*** (Pat.) Donk

LC • FS, HB • Frd

On *Betula* & *Sorbus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed *Quercus–Pinus* forest, on fallen trunk of *Sorbus aucuparia*, 1.IX.1999 coll. *Golombievskaya*, det. *Mukhin* (SVER(F) 51881). **Cl:** Nizhneserginsk area, S of Nizhniye Sergi town, on fallen *Betula pendula*, 3.IX.1970 coll. *Kazantseva*, det. *Kotiranta* (SVER(F) 49091).

****Xenasma rimicola*** (P. Karst.) Donk

LC • HB, SB • Fhm

On *Corylus & Betula*.

P: Krasnoufimsk area, Sargaja, on hazel, 7.IX.1968 coll. *Sirko*, det. *Stepanova* (SVER(F) 48593). **Bp:** Sisert area, Biological station USU, on birch, 27.VIII.2006 *Shiryayev & Kotiranta* (SVER(F) 56570).

Xylobolus frustulatus (Pers.: Fr.) Boidin

Syn. *Stereum frustulosum* Fr.

NT A1c; C1+2a(i) • FS, HB, SB • Frdv

On *Quercus*.

P: Krasnoufimsk area, «Nizhneirginsk oak forest», managed dry *Pinus–Quercus* forest, on oak, 20.VIII.1974 coll. *Stepanova*, det. *Almanaite* (SVER(F) 47484).

Cl: *Stepanova* (1971). **Bp:** Ekaterinburg, Botanical Garden RAS, on *Quercus*, 29.IX.2008 *Almanaite* (SVER(F) 57442).

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APPENDIX I

Species excluded from the check-list

Athelia rolfsii (Curzi) C.C. Tu & Kimbr.

Syn. *Corticium rolfsii* Curzi

There are six specimens in SVER (det. N.T.Stepanova & A.V.Sirko) under the name *Corticium rolfsii*. Four of them were collected in the southern part of Sverdlovsk region in 1960's. The habitats were anthropogenic: inside glasshouses and in gardens on compost plus on *Allium* spp. and *Solanum* sp. We excluded this taxon because during the re-examination of the specimens most of them have only sterile structures and not enough spores for identification.

Cl: Stepanova-Kartavenko (1967); Pervouralsk, on *Solanum*. **Bp:** Ekaterinburg, on *Solanum*; Verkh Pyshma, on *Solanum*. **PI:** Talitsa, on *Allium*.

Clavaria aculeata Błoński

There are no specimens in herbaria studied.

Bp: Stepanova & Mukhin (1979).

Cristella submutabilis (Höhn. & Litsch.) Donk

Syn. *Phlebiella submutabilis* (Höhn. & Litsch.) Bondartsev & Singer

There are no specimens in herbaria studied.

PI: Stepanova (1971).

Ganoderma carnosum Pat.

There are no specimens in herbaria studied.

PI: Mukhin (1993a).

Guepiniopsis buccina (Pers.) L.L. Kenn.

Syn. *Guepinia peziza* Tul.

There are no specimens in herbaria studied.

Bp: Stepanova (1971).

Hydnellum geogenium (Fr.) Banker

There are no specimens in herbaria studied.

P: Shiryayev (2008c). **Cl:** Shiryayev (2008c).

Lopharia cinerascens (Schwein.) G. Cunn.

There are no specimens in herbaria studied.

NI: Stepanova (1971).

Podofomes corrugis (Fr.) Pouzar

Syn. *Polyporus trogii* Fr., *Pelloporus trogii* (Fr.) Kotl. & Pouzar

There are no specimens in herbaria studied.

Cl: Solovjov (1946); Stepanova-Kartavenko (1967); Stepanova (1971).

Sarcodontia fragilissima (Berk. & M.A. Curtis) Nikol.

There are no specimens in herbaria studied.

Bp: Stepanova (1971); Stepanova & Mukhin (1979).

Stereum ostrea (Blume & T. Nees) Fr.

There are no specimens in herbaria studied.

P: Stepanova (1971).

Xylobolus subpileatus (Berk. & M.A. Curtis) Boidin

Syn. *Stereum subpileatum* Berk. & M.A. Curtis

There are no specimens in herbaria studied.

P: Stepanova (1971).

APPENDIX II

Coordinates of the main collection points

Achit area, Korzunovka (56°57' N, 58°17' E)

Arti area, Pristan' (56°27' N, 58°31' E)

Bisert area, Klenovskoye (56°50' N, 58°39' E)

Ekaterinburg, Botanical Garden RAS – Botanical Garden of the Russian Academy of Science (56°47' N, 60°35' E)

Gari area, Zykova, (59°36' N, 62°35' E)

Irbit area, Yelan' (57°37' N, 63°41' E)

Irbit area, Zaikovo (57°32' N, 62°48' E)

Ivdel area, Chernaja Parma Mnt. (60°53' N, 60°14' E),

Ivdel area, Molebny Kamen mountain range, Oykachakhl Mnt. (61°18' N, 59°14' E) (1322 m.a.s.l.)

Ivdel area, Ous (61°30' N, 60°52' E)

Ivdel area, Polunochnoje (60°51' N, 60°28' E)

Kachkanar area, Kachkanar Mnt. (58°45' N, 59°22' E)

Karpinsk area, Kazansky Kamen mountain range (S part) (60°07' N, 59°08' E) (1034 m.a.s.l.)

Karpinsk area, Konzhakov Kamen Mnt. (59°34' N, 59°15' E) – Highest Mountain in the region (1569 m. a.s.l.)

Krasnoufimsk area, Chernaya rechka (56°33' N, 57°26' E)

Krasnoufimsk area, «Nizhneirginsk oak forest» (56°50' N, 57°30' E)

Krasnoufimsk area, Sarana (56°28' N, 57°40' E)

Krasnoufimsk area, Ust-Bugalish (56°16' N, 57°51' E)

Krasnouralsk area, Dachny (58°25' N, 59°58' E)
Kushva area, Kedrovka Mnt. (58°10' N, 59°23' E)
Nevjansk area, Tavatuy lake (57°10' N, 60°14' E)
Nizhneserginsk area, Mikhailovsk town (56°28' N, 59°10' E)
Nizhneserginsk area, Nizhniye Sergi town (56°40' N, 59°18' E)
Nizhneserginsk area, «Oleni Ruchii» Nat. Park, Bazhukovo (56°31' N, 59°13' E)
Prigorod area, Baronskoye (57°37' N, 59°05' E)
Prigorod area, Visim Nat. Reserve, Galashki (57°26' N, 59°44' E)
Revda area, Khomutovka (56°50' N, 59°48' E)
Severouralsk area, Bajanovka (60°11' N, 59°42' E)
Severouralsk area, «Denezhkin Kamen» Nat. Res. (60°28' N, 59°30' E)
Severouralsk area, Kazansky Kamen Mnt. Range (N part) (60°15' N, 59°10' E)
Severouralsk area, Kumba Mnt. (60°09' N, 59°40' E)
Severouralsk area, Vagran river valley (60°05' N, 59°15' E)
Shalya area, Shigaevo (57°21' N, 59°44' E)
Sisert area, Biological station USU – Biological station of the Ural State University (56°35' N, 61°03' E)
Sisert area, Dvurechensk (56°35' N, 61°04' E)
Talitsa area, «Pripishmink Bory» Nat. Park (W part) (56°56' N, 63°40' E)
Tavda area, Oshmarka (58°12' N, 65°02' E)
Tugulym area, «Pripishmink Bory» Nat. Park (E part) (57°18' N, 64°28' E)
Verkh Pyshma area, Iset station, «Chertovo gorodische» (56°55' N, 60°20' E)
Verkhoturye (58°50' N, 60°45' E)

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**АФИЛЛОФОРОИДНЫЕ ГРИБЫ СВЕРДЛОВСКОЙ ОБЛАСТИ:
БИОРАЗНООБРАЗИЕ, РАСПРОСТРАНЕНИЕ,
ЭКОЛОГИЯ и IUCN КАТЕГОРИИ**

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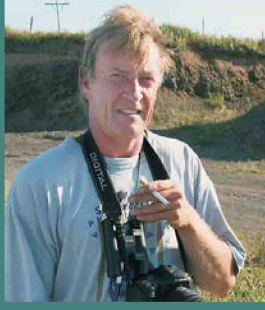
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APHYLLOPHOROID FUNGI OF SVERDLOVSK REGION, RUSSIA



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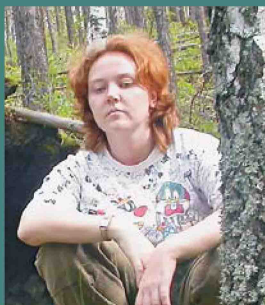
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