

БИОРАЗНООБРАЗИЕ, СИСТЕМАТИКА,
ЭКОЛОГИЯ

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NEW SPECIES FOR REGIONAL MYCOBIOTAS OF RUSSIA. 4. REPORT 2019

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A total of 62 species of fungi have been recorded for the first time from 15 administrative regions of Russia: Altai Krai, Altai Republic, Arkhangelsk Oblast, Chelyabinsk Oblast, Chukotka Autonomous Okrug, Kirov Oblast, Leningrad Oblast, Magadan Oblast, Novgorod Oblast, Novosibirsk Oblast, Omsk Oblast, Republic of Bashkortostan, Sverdlovsk Oblast, Volgograd Oblast, Yamalo-Nenets Autonomous Okrug. An annotated species list containing the data on location, substrate, habitat type and voucher numbers is provided. *Cantharellus amethysteus* and *Ramariopsis robusta* are reported as the first records in Russia. Three species – *Hygrophoropsis rufa*, *Typhula schoeni*, *Xerocomellus ripariellus* – are recorded in Russia for the second time.

Keywords: basidiomycetes, biodiversity, fungal distribution, Russia

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INTRODUCTION

The present report is the forth in the series of articles devoted to the new regional records of fungi (Bolshakov et al., 2016, 2018; Svetasheva et al., 2017).

An annotation record includes the data on species location, habitat, substrate, and herbarium documentation. The material was loaded in LE (Saint Petersburg), AR (Arkhangelsk), OHHI (Oryol), SVER (Ekaterinburg), NSK (Novosibirsk), and MAG (Magadan) herbaria.

MATERIALS AND METHODS

Material was collected by Sergey V. Volobuev (abbreviated as SV), Sergey Yu. Bolshakov (SB), Anton G. Shiryaev (AS), Oleg N. Ezhov (OE), Nina A. Sazanova

(NS), Vyacheslav A. Vlasenko (VV), Lyudmila B. Kalinina (LK), Iraida V. Stavishenko (IS), and other persons indicated in the text.

The specimens were identified by Sergey V. Volobuev (abbreviated as SV), Sergey Yu. Bolshakov (SB), Anton G. Shiryaev (AS), Oleg N. Ezhov (OE), Yury A. Rebriev (YR), Vyacheslav A. Vlasenko (VV), Lyudmila B. Kalinina (LK), Iraida V. Stavishenko (IS), Ivan V. Zmitrovich (IZ), and other specialists indicated in the text.

To shorten the names of administrative regions of Russia we have used the international standard codes ISO 3166-2:RU (ISO., 2010). Republic of Crimea was abbreviated as KM.

Data on the distribution of fungal species in Russia is based on the updated database on *Agaricomycetes* di-

versity (Bolshakov et al., 2017), as well as other papers partly referenced in previous reports (Bolshakov et al., 2016; Svetasheva et al., 2017).

RESULTS

AGARICALES

Bovista aestivalis (Bonord.) Demoulin – new for Magadan Oblast.

Distribution in Russia: AD, AL, ALT, AMU, BU, CHE, IRK, KC, KDA, KEM, KGD, KHM, KIR, KL, KM, KYA, LEN, ME, MO, MOS, NGR, NVS, PRI, PSK, ROS, RYA, SA, SAM, SE, SPE, STA, SVE, TA, TOM, TVE, TY, UD, VGG, VOR, YEV.

Specimens examined: Magadan Oblast, Tenkinsky District, upper part of Kolyma river, Orotuk station, 62.03013° N, 148.64467° E, on soil in steppe, 31.07.2011, coll. NS, det. YR (MAG 3280); the same place, 62.02054° N, 148.62926° E, on soil in meadow on the bank river, 23.07.2011, coll. NS, det. YR (MAG 4021); vicinity of Magadan, 59.56867° N, 150.74881° E, on soil in forest with *Betula lanata* and *Pinus pumila*, 21.08.2013, coll. NS, det. YR (MAG 4074); Khasynsky District, 127 km of Kolyma road, 60.37857° N, 151.44148° E, on soil in open woodland with *Pinus pumila*, *Chosenia arbutifolia*, *Larix cajanderi*, *Dryas punctata* and pebbles, 24.07.2016, coll. NS, det. YR (MAG 5029); Susumansky District, 795 km of Kolyma road, 63.656738° N, 146.292288° E, steppe slope, on soil in grass-forb community, 20.08.2018, coll. NS, det. YR (MAG 5155); Myaundzha village, Lysaja mountain, 62.997260° N, 147.368971° E, on soil in cut down forest with *Larix*, *Pinus pumila*, *Juniperus sibirica* with steppe elements, 20.08.2018, coll. NS, det. YR (MAG 5161, MAG 5165).

Bovista limosa Rosturp – new for Magadan Oblast and Chukotka Autonomous Okrug.

Distribution in Russia: KHM, SVE, YAN.

Specimens examined: Magadan Oblast, Olsky District, Magadansky Nature Reserve, middle part of Chelomdzha river, 60.27629° N, 147.61243° E, on soil in young forest with *Salix* spp. on the river bank, 10.08.1985, coll. NS, det. YR (MAG 4012); vicinity of Magadan, Snezhnaya Dolina village, 59.73288° N, 150.85795° E, on soil in open place, 15.08.2000, coll. NS, det. YR (MAG 2161); Zavyalov island, 59.07908° N, 150.63551° E, on soil in anthropogenic meadow, 30.06.2010, coll. NS, det. YR (MAG 3023); Chukotka Autonomous Okrug, Anadyrsky District, Markovo village, 64.67996° N, 170.39875° E, on soil in flooded forest with *Populus suaveolens*, 07.1986, coll. NS, det. YR (MAG 2705).

Bovista tomentosa (Vittad.) De Toni – new for Magadan Oblast.

Distribution in Russia: AL, AST, BEL, KGD, KL, LEN, NVS, SVE.

Specimens examined: Magadan Oblast, vicinity of Magadan, 59.56147° N, 150.78530° E, on soil in waste-

land, 23.08.2006, coll. NS, det. YR (MAG 2704); Tenkinsky District, upper part of Kolyma river, Orotuk station, 62.02054° N, 148.62926° E, on soil in meadow on the bank river, 23.07.2011, coll. NS, det. YR (MAG 4021); Khasynsky District, 152 km of Kolyma road, 60.60272° N, 151.57241° E, on soil on slope of south exposition with steppe vegetation, 12.08.2015, coll. NS, det. YR (MAG 3278).

Calvatia turneri (Ellis et Everh.) Demoulin et M. Lange – new for Magadan Oblast.

Distribution in Russia: AL, ALT, ARK, CHU, KAM, SVE, TYU, YAN.

Specimens examined: Magadan Oblast, Olsky District, Chistoe lake, 59.53943° N, 151.74172° E, on soil in meadow, 19.08.1990, coll. NS, det. YR (MAG 3992); the same place, 59.57910° N, 151.79826° E, on soil in forest with *Larix* sp., 25.07.1990, coll. NS, det. YR (MAG 4010); Pyagin peninsula, 59.19830° N, 154.39396° E, on soil in tundra, 16.09.2010, coll. NS, det. YR (MAG 3035); Spafaryev island, 59.15981° N, 149.03596° E, on soil in tundra, 25.07.2013, coll. NS, det. YR (MAG 5038); Tenkinsky District, upper part of Elgenya river, vicinity of Orotuk village, 62.1379° N, 148.87046° E, on soil in tundra, 23.07.2000, coll. NS, det. YR (MAG 2158); upper part of Kolyma river, Bolshoi Annachag Ridge, 62.14901° N, 149.10664° E, on soil in tundra with *Salix polaris* and *Arctous alpina*, 28.07.2011, coll. NS, det. YR (MAG 4023, MAG 4030); Khasynsky District, Rangifer station, 60.657313° N, 152.08609° E, on soil in forest with *Larix cajanderi*, 16.07.1984, 20.08.1984, coll. NS, det. YR (MAG 3998, MAG 3997); Olskoe plateau, 60.63428° N, 151.52630° E, on soil in grassland, 17.07.2007, coll. NS, det. YR (MAG 4031); Yablonevy pass, 60.61391° N, 151.58583° E, on soil in transition between forest and tundra, 29.08.2013, coll. NS, det. YR (MAG 4493); Srednekansky District, Aesop mountain, 63.25831° N, 151.04654° E, on soil in tundra, 24.07.2011, coll. NS, det. YR (MAG 4030).

Cyathus olla (Batsch) Pers. – new for Magadan Oblast.

Distribution in Russia: AL, ALT, ARK, BEL, IRK, KGD, KK, KM, KYA, LEN, LIP, MOS, NGR, NIZ, NVS, PNZ, PSK, ROS, SAR, SE, SPE, SVE, TA, TOM, TVE, UD, VOR.

Specimen examined: Magadan Oblast, Olsky District, Koni peninsula, river basin Kulkuta, 59.146655° N, 152.012991° E, on decayed plant debris in seaside community, 21.08.2006, coll. NS, det. YR (MAG 2706).

Fistulina hepatica (Schaeff.) With. – new for Kirov Oblast.

Distribution in Russia: AD, BA, BEL, BRY, CHE, CU, KB, KC, KDA, KGD, KLU, KM, KR, KRS, LIP, ME, MO, MOS, NGR, NIZ, ORE, ORL, PNZ, PSK, ROS, RYA, SAM, SAR, SE, SMO, SPE, STA, SVE, TA, TAM, TUL, UD, ULY, VGG, VOR.

Specimen examined: Kirov oblast, Pizhansky District, the Pizhensky State Nature Reserve, vicinity of Burdino village, 58.591400° N, 48.625213° E, in lower part of living trunk of *Quercus robur* in herb-rich spruce forest with *Abies sibirica*, *Betula pendula*, *Populus tremula* and single trees of *Quercus robur*, *Euonymus verrucosus*, 8.09.2018, coll. and det. IS (SVER 747999).

Lycoperdon excipuliforme (Scop.) Pers. – new for Magadan Oblast and Chukotka Autonomous Okrug.

Distribution in Russia: AD, AL, ALT, BA, BEL, BRY, CE, CHE, IRK, KB, KC, KGD, KHA, KHM, KLU, KM, KR, KRS, KYA, LEN, LIP, ME, MO, MOS, MOW, MUR, NGR, NVS, OMS, PER, PNZ, PRI, PSK, ROS, RYA, SA, SAM, SAR, SE, SPE, STA, SVE, TA, TOM, TVE, TYU, UD, VGG, VLG, VOR, YAR.

Specimens examined: Magadan Oblast, Tenkinsky District, upper part of Kolyma river, Orotuk station, 62.048870° N, 148.655610° E, on dead fallen wood in forest with *Betula platyphylla* and *Larix cajanderi*, 24.07.2011, coll. NS, det. YR (MAG 4022); Srednekansky District, Seimchan village, 62.936889° N, 152.368134° E, at the base of *Betula platyphylla* in mixed forest, 24.08.2013, coll. NS, det. YR (MAG 3241); right bank of the Kolyma river, river mouth Jegdyan, 63.103391° N, 152.553191° E, on soil in flooded forest with *Populus suaveolens* and *Chosenia arbutifolia*, 29.08.2016, coll. NS, det. YR (MAG 4553); vicinity of Magadan, 59.567918° N, 150.762492° E, on soil in forest with *Betula lanata*, 05.08.2015, 15.08.2018, coll. NS, det. YR (MAG 4885, MAG 5147); Chukotka Autonomous Okrug, Anadyrsky District, middle of Anadyr river, hydrometeorological station (HMS) N-Eropol, 64.871502° N, 168.611406° E, on soil and shattered wood in middle flooded forest with *Populus suaveolens* and *Chosenia arbutifolia*, 25.07.1986, coll. NS, det. YR (MAG 2700).

Lycoperdon lambinonii Demoulin – new for Magadan Oblast.

Distribution in Russia: AD, AL, CHE, IRK, KAM, KC, KDA, KYA, MO, MOS, NGR, PRI, ROS, RYA, SVE, TOM, TYU, ULY, YAN.

Specimens examined: Magadan Oblast, Olsky District, Gluhoe lake, 59.73175° N, 149.89781° E, on soil in forest with *Betula lanata* and *Alnus* sp., 05.09.1997, coll. NS, det. YR (MAG 1467); Koni peninsula, Magadansky Nature Reserve, left bank of Khindzha river, 59.14684° N, 151.64718° E, among mosses in forest with *Betula lanata*, 11.07.2011, coll. NS, det. YR (MAG 3360); Srednekansky District, Seimchan village, 62.91956° N, 152.28008° E, on soil in mixed forest, 14.08.1999, coll. NS, det. YR (MAG 4003); vicinity of Magadan, 59.56867° N, 150.74881° E, on soil in forest with *Betula lanata*, 19.08.2011, coll. NS, det. YR (MAG 4237); the same place, 59.569153° N, 150.768138° E, on soil, 13.08.2018, coll. NS, det. YR (MAG 5126); Snezhnaya Dolina village, 59.733996° N, 150.866213° E, among mosses and plant debris in

planting with *Pinus sylvestris*, 01.09.2011, coll. NS, det. YR (MAG 3889); Khasynsky District, 152 km of Kolyma road, 60.60272° N, 151.57241° E, on soil on slope of south exposition with steppe vegetation, 12.08.2015, coll. NS, det. YR (MAG 3259); Susumansky District, Delyankir river floodplain (near the bridge) 63.828754° N, 145.603623° E, on soil in forest with *Populus suaveolens*, *Chosenia arbutifolia* and *Salix* spp., 19.08.2018, coll. NS, det. YR (MAG 5144).

Lycoperdon lividum Pers. – new for Magadan Oblast.

Distribution in Russia: AL, ALT, BEL, IRK, KC, KGD, KK, KL, KM, KYA, LIP, MO, NVS, PNZ, PRI, ROS, RYA, SA, STA, SVE, TY, VGG.

Specimens examined: Magadan Oblast, Srednekansky District, vicinity of Seimchan village, mouth of Arangas River, 63.34666° N, 152.68066° E, on soil in slope with steppe vegetation, 20.07.2016, coll. NS, det. YR (MAG 4931); Tenkinsky District, upper part of Kolyma river, field station Contact 61.847181° N, 147.661844° E, on soil in meadow among the forest with *Larix cajanderi*, 22.08.2018, coll. NS, det. YR (MAG 5167).

Lycoperdon nigrescens Pers. – new for Arkhangelsk Oblast.

Distribution in Russia: AL, ALT, AMU, CHE, CHU, KGD, KHA, KHM, KK, KM, KR, KYA, LEN, MAG, MO, MOS, MUR, NVS, PNZ, PRI, PSK, ROS, RYA, SE, SVE, TA, TOM, TVE, TYU, VGG, YAN, YEV.

Specimens examined: Arkhangelsk Oblast, Kotlassky District, neighborhood of Gorodische village, on soil in coniferous forest. 01.08.2018, coll. OE, det. OE and IZ (AR 3164).

Lycoperdon niveum Kreisel – new for Magadan Oblast.

Distribution in Russia: AL, ALT, KC, SVE, TY.

Specimen examined: Magadan Oblast, Khasynsky District, Olskoe plateau, 60.640782° N, 151.52734° E, on soil in tundra, 17.07.2007, coll. NS, det. YR (MAG 4587, 4588); Yablonevy pass, 60.61564° N, 151.58524° E, on soil in tundra with *Dryas* sp., 22.06.2016, coll. NS, det. YR (MAG 5042).

Lycoperdon rupicola Jeppson, E. Larss. and M.P. Martín – new for Magadan Oblast.

Distribution in Russia: AL, ALT, KHA.

Specimen examined: Magadan Oblast, Olsky District, 94 km of Magadan-Yana road, 59.75237° N, 149.47537° E, on mosses among *Pinus pumila*, 07.09.2006, coll. NS, det. YR (MAG 2163).

Naucoria salicis P.D. Orton – new for Leningrad Oblast.

Distribution in Russia: ALT, ARK, KO, KR, PER, PNZ, PRI, SVE.

Specimens examined: Leningrad Oblast, Kingiseppsky district, vicinity of Vel'kota village, 59.578349° N, 28.808126° E, on soil in broad-leaved forest (*Quercus*

robur, *Corylus avellana*, *Populus tremula*), 05.08.2017, coll. and det. LK (LE 321765).

Ramariopsis robusta Matouš et Holec – new for Republic of Bashkortostan. First record in Russia.

Specimen examined: Republic of Bashkortostan, Beloretsky District, surrounds of Gabdrukovo village, slope of the hill, 510 m a.s.l., 54.5005° N, 57.2336° E, on the soil between mosses, edge of the semi-natural meadow and the old-growth conifer-broadleaved forest (*Pinus sylvestris*, *Picea sibirica*, *Quercus robur*, *Tilia cordata*, *Corylus avellana*), 02.10.2001, coll. and det. AS (SVER 926300).

Note: It is recently described species (Matouš et al., 2017), visually similar to the widespread species *Ramariopsis kunzei* (Fr.) Corner, often found in the forest zone of the Holarctic, including the Urals (Shiryaev, 2007). A number of specimens *R. kunzei*, morphologically similar to the new species, were redefined from the collections in the Republic of Bashkortostan. Of the 4 samples, one was similar to the descriptions of the new species. Until now, *R. robusta* has been found only in Western and Central Europe (United Kingdom, Czech Republic, Slovakia). Our find is the first in Eastern Europe, but it is likely that this species is widespread in Europe. Our discovery expanded the known range of *R. robusta* to 2.600 km to the east. In general, so far this species has been identified only in Europe.

Ramariopsis subtilis (Pers.) R.H. Petersen – new for Arkhangelsk Oblast.

Distribution in Russia: BA, CHE, KGD, KHA, KO, KR, LEN, LIP, MOS, MUR, PER, PSK, SAM, SPÉ, SVE, TOM, TVE, VOR, YAN.

Specimen examined: Arkhangelsk Oblast, Onezhsky District, Kiy island, on soil in floodplain ecotope, 26.08.2017, coll. OE, det. IZ (AR 3115).

Ramariopsis tenuiramosa Corner – new for Yamalo-Nenets Autonomous Okrug.

Distribution in Russia: BA, CHE, IRK, KR, KYA, LEN, MOS, MUR, NIZ, ORL, SAM, SPE, SVE, TOM, TY, ZAB.

Specimen examined: Yamalo-Nenets Autonomous Okrug, Priuralsky District, Krasny Kamen' station, 66.9002° N, 65.7336° E, at the edge of the meadow in the mixed forest (*Picea*, *Betula*, *Sorbus*), 21.08.2018, coll. and det. AS (SVER 926302).

Simocybe sumptuosa (P.D. Orton) Singer – new for Leningrad Oblast.

Distribution in Russia: AD, IRK, KHM, KM, KO, KYA, MOS, NGR, PRI, PSK, RYA, SAM, SVE, TUL, ULY.

Specimens examined: Leningrad Oblast, Kingiseppsky district, vicinity of Vel'kota village, 59.578066° N, 28.805777° E, on soil in broad-leaved forest (*Quercus robur*, *Corylus avellana*, *Populus tremula*), 22.08.2018, coll. and det. LK (LE 321764).

Typhula ishikariensis S. Imai – new for Yamalo-Nenets Autonomous Okrug.

Distribution in Russia: BA, BRY, CHE, CHU, CU, KIR, KO, KR, LEN, ME, MOS, MUR, SVE, TOM, YAN.

Specimen examined: Yamalo-Nenets Autonomous Okrug, center of Salekhard town, 66.5336° N, 66.6002° E, forming sclerotiums and fruitbodies at the base of live and dead cereals on the lawn in the centre of town, 08.06.2017, coll. A.D. Ilyukhin, det. AS (SVER 926304).

Typhula schoeni Olariaga et Salcedo – new for Chelyabinsk Oblast and Republic of Bashkortostan.

Distribution in Russia: LE.

Specimens examined: Chelyabinsk Oblast, Kyshtymy Urban Okrug, surrounds of Kanifolny village, "Khareshkino" bog, 55.7505° N, 60.5104° E, on dead petioles of *Schoenus ferrugineus*, 03.10.2002, coll. and det. AS (SVER 926305); Republic of Bashkortostan, Kiginsky District, surrounds of Arslanovo village, 55.3336° N, 59.1169° E, on rotten leaves of *S. ferrugineus*, 14.09.2014, coll. O. N. Miranchuk, det. AS (SVER 926306).

Note: It is recently described species, to date known only several finds, but widespread in Europe on the species of Cyperaceae (Olariaga, Salcedo, 2009). In European Russia found on dead parts of *Schoenus* (Shiryaev, 2013), and in the Urals region found on the *S. ferrugineus* only, grows in spring sedge-hypnum bogs at carbonate rock outcrops.

Woldmaria filicina (Peck) Knudsen – new for Novgorod Oblast.

Distribution in Russia: KLU, LEN, NVS, PSK, SVE, VLG.

Specimen examined: Novgorod Oblast, Chudovsky District, 2 km southwestward to the Krasnofarformy settlement, vicinity of the old cemetery, on fronds of *Matteuccia struthiopteris* in grey alder forest, 11.10.2018, coll. and det. SB (LE 321631).

BOLETALES

Gastrosporium simplex Mattir. – new for Sverdlovsk Oblast.

Distribution in Russia: AL, KL, KYA, NVS, ROS, TY, VGG, VOR.

Specimen examined: Sverdlovsk oblast, Artinsky District, nature protected area "Steppe at the surrounds of Novy Zlatoust village", 56.2169° N, 58.5002° E, on the soil in the steppe grasses and *Spirea* spp. bushes, 17.09.2015 coll. I.P. Mutolapov, det. AS (SVER 926279).

Hygrophoropsis rufa (D.A. Reid) Knudsen – new for Leningrad and Novgorod Oblast.

Distribution in Russia: VLG.

Specimens examined: Leningrad Oblast, Kingiseppsky District, vicinity of Pereles'e village 59.628581° N, 28.961675° E, on rotten trunk covered with moss in coniferous forest with *Populus tremula*,

29.08.2018, coll. and det. LK (LE 321759); Novgorod Oblast, Valdaisky District, vicinity of Sokolovo village, road to Krasnaya Gorka stow, 58.11028° N, 33.21681° E, on the roadside in mixed forest (*Picea abies*, *Betula* sp., *Populus tremula*), 21.08.2003, coll. Olga V. Morozova (the specimen was published previously as *H. fuscosquamula* P. D. Orton (Kovalenko et al., 2005, Popov et al., 2013), det. LK (LE 234581).

Xerocomellus ripariellus (Redeuilh) Šutara – new for Leningrad Oblast.

Distribution in Russia: UD.

Specimens examined: Leningrad Oblast, Kingiseppsky district, vicinity of Vel'kota village, 59.582432° N, 28.809425° E, on soil in broad-leaved forest (*Quercus robur*, *Corylus avellana*, *Populus tremula*), 29.08.2018, coll. E. A. Palomozhnykh, det. LK (LE 321762).

CANTHARELLALES

Cantharellus amethysteus (Qué.) Sacc. – new for Leningrad Oblast. First records in Russia.

Specimen examined: Leningrad Oblast, Vyborgsky District, 4 km northwestward to the Zakhodskoye settlement, vicinity of the Bolshoye Krasnoperskoye Lake, 60.42764° N, 29.29267° E, on soil in birch-heather forest in place of the cut down pine forest, 15.08.2017, coll. and det. I.V. Tkachuk (LE 315340).

Cantharellus cibarius Fr. – new for Yamalo-Nenets Autonomous Okrug.

Distribution in Russia: AD, ALT, AMU, ARK, BRY, CHE, CHU, CU, IRK, KB, KC, KDA, KGD, KHA, KIR, KLU, KM, KO, KR, KRS, KYA, LEN, LIP, MAG, ME, MO, MOS, MOW, MUR, NGR, NIZ, ORL, PER, PNZ, PRI, PSK, ROS, RYA, SAM, SE, SMO, SPE, SVE, TA, TOM, TUL, TVE, UD, VLG, VOR, YEV.

Specimen examined: Yamalo-Nenets Autonomous Okrug, Priuralsky District, Labytnangi town, 66.6502° N, 66.4002° E, on the soil under larches in the town centre, coll. and det. AS 23.08.2018 (SVER 926268).

Clavulina rugosa (Bull.) J. Schröt. – new for Novgorod Oblast.

Distribution in Russia: ARK, BA, CHE, CHU, KGD, KHA, KM, KO, KOS, LEN, LIP, MAG, MOS, MOW, MUR, ORL, PRI, PSK, SVE, TOM, TVE, YAN, YEV, ZAB.

Specimen examined: Novgorod Oblast, Chudovsky District, 2 km southwestward to the Krasnofarfornyy settlement, vicinity of the old cemetery, on soil in oak forest, 11.10.2018, coll. and det. SB (LE 321640).

Craterellus lutescens (Fr.) Fr. – new for Arkhangelsk Oblast.

Distribution in Russia: KGD, KM, LEN, MUR, SVE, TVE, UD.

Specimen examined: Arkhangelsk Oblast, Primorsky District, neighborhood of Malye Korely vil-

lage, on soil in mixed forest, 21.10.2018, coll. and det. OE (AR 3184).

CORTICIALES

Erythricium hypnophilum (P. Karst.) J. Erikss. et Hjortstam – new for Altai Krai.

Distribution in Russia: KHM, KGN, SVE.

Specimen examined: Altai Krai, vicinity of Barnaul city, 53.2851° N, 83.7222° E, on fallen trunk of *Pinus sylvestris* in birch-pine forest, 20.06.2008, coll. and det. VV (NSK 1014213).

GOMPHALES

Kavinia alboviridis (Morgan) Gilb. et Budington – new for Omsk Region.

Distribution in Russia: ARK, KAM, KHM, KO, KR, KYA, LEN, NVS, RYA, SVE, TUL, ZAB.

Specimens examined: Omsk Region, Kalachinsky District, vicinity of "New village", 54.9362° N, 74.5817° E, on fallen branch of *Pinus sylvestris* in pine plantings, 22.06.2017, coll. and det. VV (NSK 1014189, NSK 1014191).

Ramaria curta (Fr.) Schild – new for Chelyabinsk Oblast and Sverdlovsk Oblast.

Distribution in Russia: KGD, ORL.

Specimens examined: Chelyabinsk Oblast, Miassky Urban Okrug, Ilimensky Nature Reserve, surrounds of Miassovo cordon, Saima peninsula, 55.1502° N, 60.3002° E, on soil at the edge of the meadow covered by *Cotoneaster melanocarpus*, *Cerasus fruticosa*, *Spirea* spp., under trees and bushes (*Tilia cordata*, *Betula* sp., *Crataegus sangiunea*), det. AS (SVER 926293); Sverdlovsk Oblast, Krasnoufimsky District, nature protected area "Nizhneirginsk oak forest", 56.8836° N, 57.4169° E, on soil under steppe bushes (*Cotoneaster melanocarpus*, *Cerasus fruticosa*, *Spirea* spp.), 02.09.2017, coll. O.F. Naumova, det. AS (SVER 926294).

Ramaria testaceoflava (Bres.) Corner – new for Yamalo-Nenets Autonomous Okrug.

Distribution in Russia: ARK, CHE, KGD, KR, LEN, MUR, ORL, SVE, TOM.

Specimen examined: Yamalo-Nenets Autonomous Okrug, Priuralsky District, Krasny Kamen' station, 66.9002° N, 65.7336° E, on the soil in the mixed forest (*Picea*, *Larix*, *Betula*, *Sorbus*) at the base of the Slantsevaya mountain, 21.08.2018, coll. and det. AS (SVER 926296).

HYMENOCHAETALES

Coltricia perennis (L.) Murrill – new for Yamalo-Nenets Autonomous Okrug.

Distribution in Russia: ALT, AMU, ARK, BRY, BU, CHE, CU, IRK, KB, KC, KGD, KHA, KHM, KIR, KLU, KO, KR, KRS, KYA, LEN, LIP, MAG,

ME, MO, MOS, MOW, MUR, NGR, NIZ, ORL, PER, PNZ, PRI, PSK, ROS, RYA, SAK, SAM, SMO, SPE, SVE, TA, TOM, TUL, TVE, TY, UD, VLG, VOR, YEV, ZAB.

Specimen examined: Yamalo-Nenets Autonomous Okrug, Shuryshkary District, surrounds of Khanty-Pitlyar village, 65.7836° N, 65.8836° E, on sandy soil of the path to the Ob' river shore, 21.07.2007, coll. and det. AS (SVER 926277); Priuralsky District, surrounds of Oktyabrskiy village, 66.7002° N, 66.5669° E, on the sandy soil close to Sob' river, 20.08.2018, coll. and det. AS (SVER 926278). This is the most northern locality for this species in the West Siberia and Urals.

Hymenochaete rubiginosa (Dicks.) Lév. – new for Volgograd Oblast.

Distribution in Russia: AMU, BA, BEL, BRY, CE, CU, DA, KB, KGD, KIR, KLU, KM, KR, KRS, KYA, LEN, LIP, MO, MOS, MOW, NGR, NIZ, ORE, ORL, PNZ, PSK, ROS, RYA, SAM, SAR, SPE, SVE, TA, TUL, TVE, UD, VOR.

Specimen examined: Volgograd Oblast, Svetlo-yarsky District, Chapurnikovskaya Balka forest area, in 2 km north-westward to the Kirova village, 48.4833° N, 44.5000° E, on fallen trunk of *Quercus robur* in black alder-oak forest, 28.09.2014, coll. and det. SV (LE 314065).

Lyomyces crustosus (Pers.) P. Karst. – new for Volgograd Oblast.

Distribution in Russia: ARK, BA, BEL, BRY, KDA, KGD, KHA, KHM, KIR, KLU, KM, KO, KR, KRS, KYA, LEN, LIP, MO, NGR, NIZ, NVS, ORE, ORL, PER, PNZ, PSK, ROS, RYA, SA, SAM, SPE, SVE, TA, TUL, TVE, TY, VOR, YEV, ZAB.

Specimen examined: Volgograd Oblast, Svetlo-yarsky District, Chapurnikovskaya Balka forest area, in 2 km north-westward to the Kirova village, 48.4833° N, 44.5000° E, on dry branches of *Ulmus* sp. in black alder forest, 28.09.2014, coll. and det. SV (LE 314058).

Mensularia radiata (Sowerby) Lázaro Ibiza – new for Volgograd Oblast.

Distribution in Russia: AL, AMU, ARK, BA, BEL, BRY, CHE, CHU, CU, IRK, KAM, KGD, KHA, KHM, KIR, KLU, KM, KO, KR, KRS, KYA, LEN, LIP, MAG, ME, MO, MOS, MOW, MUR, NGR, NIZ, NVS, ORE, ORL, PER, PNZ, PRI, PSK, ROS, RYA, SA, SAM, SE, SMO, SPE, SVE, TA, TVE, TY, TYU, UD, VOR, YAN, YEV, ZAB.

Specimen examined: Volgograd Oblast, Svetlo-yarsky District, Chapurnikovskaya Balka forest area, in 2 km north-westward to the Kirova village, 48.4833° N, 44.5000° E, on fallen trunk of *Alnus glutinosa* in black alder forest, 28.09.2014, coll. and det. SV (LE 314062).

Phellinus rhamni (Bondartseva) H. Jahn – new for Volgograd Oblast.

Distribution in Russia: BA, BRY, CE, KDA, LIP, ORE, ROS.

Specimen examined: Volgograd Oblast, Svetlo-yarsky District, Chapurnikovskaya Balka forest area, in 2 km north-westward to the Kirova village, 48.4833° N, 44.5000° E, on living tree of *Rhamnus cathartica* in black alder forest, 28.09.2014, coll. and det. SV (LE 314068).

Porodaedalea laricis (Jacz. ex Pilát) Niemelä – new for Yamalo-Nenets Autonomous Okrug and Chelyabinsk Oblast.

Distribution in Russia: AL, AMU, ARK, CHE, KAM, KHM, KO, KR, KYA, LEN, SPE, SVE, TOM, TVE, TY, YAN, YEV, ZAB.

Specimens examined: Yamalo-Nenets Autonomous Okrug, Priuralsky District, Krasny Kamen' station, 66.9002° N, 65.7336° E, on old *Larix sibirica*, 21.08.2018, coll. and det. AS (SVER 926287); Chelyabinsk Oblast, Katav-Ivanovsky District, Yuzhno-Uralsky Nature Reserve, surrounds of Tyul'men' village, 54.4669° N, 58.0169° E, on old *Larix sibirica* in the mixed forest (*Picea sibirica*, *Pinus sylvestris*, *Larix sibirica*, *Populus tremula*, *Betula* spp., *Sorbus aucuparia*), 30.08.2016, coll. O.N. Miranchuk, det. AS (SVER 926288).

Xylodon quercinus (Pers.) Gray – new for Volgograd Oblast.

Distribution in Russia: ARK, BEL, BRY, CE, CHU, DA, IRK, KDA, KHM, KM, KYA, LEN, LIP, MO, NGR, NIZ, ORE, ORL, PER, PSK, SAM, SPE, SVE, TOM, VOR, YEV.

Specimens examined: Volgograd Oblast, Sredneakhtubinsky District, vicinity to the Chapaevets village, 48.5667° N, 44.8167° E, on dry branches and fallen trunk of *Quercus robur* in herb-rich oak forest, 26.09.2014, coll. and det. SV (LE 314060, OHHI 1433).

POLYPORALES

Donkia pulcherrima (Berk. et M.A. Curtis) Pilát – new for Novosibirsk Oblast.

Distribution in Russia: ALT, BRY, KAM, KDA, KHM, KHA, KIR, KM, KYA, LEN, LIP, ME, MO, NGR, NIZ, PRI, SA, SVE, TA, TYU, UD, ZAB.

Specimen examined: Novosibirsk Region, Ubinsky district, vicinity of Zhdanovsky village, 55.3523° N, 79.1765° E, on fallen trunk of *Betula pendula* in birch forest, 24.06.2017, coll. and det. VV (NSK 1014155).

Osteina obducta (Berk.) Donk – new for Yamalo-Nenets Autonomous Okrug.

Distribution in Russia: AMU, ARK, BA, BU, IRK, KAM, KHA, KO, KYA, MAG, MO, NVS, OMS, PRI, SAK, SVE, TY, YAN, YEV, ZAB.

Specimen examined: Yamalo-Nenets Autonomous Okrug, Priuralsky District, Krasny Kamen' station, 66.9002° N, 65.7336° E, on fallen dead trunk of *Picea sibirica*, 22.08.2018, coll. and det. AS (SVER 926284).

Phlebia aurea (Fr.) Nakasone – new for Sverdlovsk Oblast.

Distribution in Russia: ARK, KGD, KR, LEN, MO, MOS, NIZ, NVS, ORE, ORL, PER, PSK, ROS, SAM, SPE, TUL, TVE.

Specimen examined: Sverdlovsk oblast, the Town of Kirovgrad, in 3 km westward to Kirovgrad, 57.432415° N, 60.062896° E, on fallen trunk of *Betula pendula* in herb-rich pine-dominated forest with *pendula* and *Picea obovata*, 27.09.2003, coll. and det. IS (SVER 747997).

Phlebia subochracea (Alb. et Schwein.) J. Erikss. et Ryvarden – new for Volgograd Oblast.

Distribution in Russia: ARK, BA, IRK, KDA, KHM, KO, LEN, ORE, ROS, SVE.

Specimens examined: Volgograd Oblast, Svetloyarsky District, Chapurnikovskaya Balka forest area, in 2 km north-westward to the Kirova village, 48.4833° N, 44.5000° E, on fallen logs and branches of *Alnus glutinosa* and *Quercus robur* in black alder-oak forest, 28.09.2014, coll. and det. SV (LE 314063, LE 314067, OHHI 1431, OHHI 1432); Sredneakhtubinsky District, vicinity to the Chapaevets village, 48.5667° N, 44.8167° E, on wood debris of *Quercus robur* in herb-rich oak forest, 26.09.2014, coll. and det. SV (LE 314084).

Phlebia tuberculata (Berk. et M.A. Curtis) Tura, Zmitr., Wasser et Spirin – new for Volgograd Oblast.

Distribution in Russia: ARK, BEL, KHA, KHM, KR, KYA, LEN, MO, MUR, ORE, SA, SAM, SVE, VOR.

Specimens examined: Volgograd Oblast, Sredneakhtubinsky District, vicinity to the Chapaevets village, 48.5667° N, 44.8167° E, on fallen branches of *Quercus robur* in herb-rich oak forest, 26.09.2014, coll. SV, det. SB and SV (LE 314070); in 3 km north-westward to the Sukhodol village, 48.6333° N, 44.8667° E, on fallen branches of *Robinia pseudoacacia* in plantations of *Pinus* sp. and *Robinia pseudoacacia*, 25.09.2014, coll. and det. SV (LE 314085).

Phlebia uda (Fr.) Nakasone – new for Leningrad Oblast and Volgograd Oblast.

Distribution in Russia: ARK, BRY, KDA, KLU, KM, KR, KRS, MO, NIZ, NVS, SPE.

Specimens examined: Leningrad Oblast, Lomonosovsky District, park of the Verkhnyaya Ruditsa manor in the Lopukhinka village, 59.74222° N, 29.4125° E, on fallen deciduous wood in park with broadleaf trees (*Acer platanoides*, *Alnus incana*), 05.08.2018, coll. LK, det. SB (LE 321638). Based on herbarium material (LE), it was found that the previously published records of *P. uda* in the Leningrad Oblast (Popov et al., 2007) refers to the territory of St. Petersburg. Volgograd Oblast, Svetloyarsky District, Chapurnikovskaya Balka forest area, in 2 km north-westward to the Kirova village, 48.4833° N, 44.5000° E, on fallen trunk of *Alnus glutinosa* in black alder forest, 28.09.2014, coll. and det. SV (LE 314064).

Phlebia unica (H.S. Jacks. et Dearden) Ginns – new for Sverdlovsk Oblast.

Distribution in Russia: AL, LEN, NVS, ORL, PSK.

Specimen examined: Sverdlovsk oblast, the City of Pervouralsk, near Khomutovka village, 56.857426° N, 59.817252° E, on stump of *Abies sibirica* in herb-rich fir-spruce-dominated forest with *Betula pendula*, *Larix sibirica*, *Tilia cordata*, 25.09.2002, coll. and det. IS (SVER 747998).

Piptoporellus soloniensis (Dubois) B.K. Cui, M.L. Han et Y.C. Dai – new for Republic of Bashkortostan.

Distribution in Russia: ALT, KDA, VOR.

Specimen examined: Republic of Bashkortostan, Gafurisky District, surrounds of Tolparovo village, 53.9833° N, 57.1002° E, on a high stump (1 m above the soil), broken old *Quercus robur* in the old-growth hardwood forest (*Quercus robur*, *Acer platanoides*, *Tilia cordata*, *Corylus avellana*, *Populus tremula*), 08.09.2006, coll. A.F. Zagirova, coll. AS (SVER 926267).

Rhodofomes cajanderi (P. Karst.) B.K. Cui, M.L. Han et Y.C. Dai – new for Yamalo-Nenets Autonomous Okrug.

Distribution in Russia: AMU, ARK, BU, IRK, KHA, KHM, KIR, KO, KOS, KYA, MAG, ME, NIZ, PER, PRI, SA, SVE, TA, TOM, TVE, TY, UD, YEV, ZAB.

Specimen examined: Yamalo-Nenets Autonomous Okrug, Priuralsky District, Krasny Kamen' station, 66.9002° N, 65.7336° E, on old fallen *Larix sibirica*, 22.08.2018, coll. and det. AS (SVER 926303).

Steccherinum ochraceum (Pers.) Gray – new for Volgograd Oblast.

Distribution in Russia: ARK, BA, BEL, BRY, BU, CE, CHE, CU, IRK, KDA, KGD, KHA, KHM, KIR, KLU, KM, KO, KR, KRS, KYA, LEN, LIP, MAG, ME, MO, MOS, NGR, NIZ, NVS, ORE, ORL, PER, PRI, PSK, ROS, RYA, SAM, SMO, SPE, SVE, TA, TOM, TUL, TVE, TY, TYU, UD, VLG, VOR, YEV, ZAB.

Specimen examined: Volgograd Oblast, Svetloyarsky District, Chapurnikovskaya Balka forest area, in 2 km north-westward to the Kirova village, 48.4833° N, 44.5000° E, on fallen branches of *Alnus glutinosa* in black alder forest, 28.09.2014, coll. Kim O. Potapov and SV, det. SV (LE 314069).

Trametes ljubarskyi Pilát – new for Omsk Region.

Distribution in Russia: AMU, AST, BA, DA, IRK, KHM, NVS, ORE, ORL, PRI, ROS, SA, SAK, SAM, SVE, TOM, TY, TYU, VGG, VLG, YAN.

Specimens examined: Omsk Region, Kalachinsky district, vicinity of "New village", 54.9316° N, 74.5881° E, on fallen trunk of *Betula pendula* in birch forest with willow thickets, 22.06.2017, coll. and det. VV (NSK 1014195, 1014196).

RUSSULALES

Albatrellopsis confluens (Alb. et Schwein.) Teixeira – new for Altai Republic.

Distribution in Russia: ARK, KHM, KR, KYA, LEN, LIP, MUR, SVE, VOR.

Specimen examined: Altai Republic, Ulagansky district, Lake Saryachik, 50.4980° N, 87.6539° E, on soil in larch-cedar light forest, 05.08.2008, coll. A. V. Vlasenko, det. VV (NSK 1014155).

Gloeocystidiellum porosum (Berk. et M.A. Curtis) Donk – new for Novgorod Oblast.

Distribution in Russia: ARK, BA, IRK, KAM, KDA, KHM, KIR, KO, KR, KYA, LEN, MO, MUR, NIZ, NVS, ORE, ORL, PER, PSK, SAM, SPE, SVE, TVE.

Specimen examined: Novgorod Oblast, Chudovsky District, 2 km southwestward to the Krasnofarforny settlement, vicinity of the old cemetery, on fallen trunk of *Quercus robur* in oak forest, 11.10.2018, coll. and det. SB (LE 321634).

Peniophora lycii (Pers.) Höhn. et Litsch. – new for Arkhangelsk Oblast.

Distribution in Russia: BA, CE, KDA, KHM, KIR, KM, KR, KRS, LEN, NIZ, ORL, ROS, SPE, SVE.

Specimen examined: Arkhangelsk Oblast, Shenskursky District, neighborhood Shegovary village, 62.40182° N, 43.00124° E, on fallen branch of *Ulmus laevis* in landing 60 years ago, on the site of the disappeared village, 29.09.2018, coll. OE, det. IZ (AR 3187).

Scytinostromella humifaciens (Burt) G.W. Freeman et R.H. Petersen – new for Volgograd Oblast.

Distribution in Russia: NIZ, VOR.

Specimen examined: Volgograd Oblast, Sredneakhtubinsky District, vicinity to the Chapaevets village, 48.5667° N, 44.8167° E, on wood debris of *Quercus robur* in herb-rich oak forest, 26.09.2014, coll. and det. SV (LE 314061).

Note. The third record of the species in Russia expands the known distribution area more than 300 km southward.

Xylobolus frustulatus (Pers.) P. Karst. – new for Novgorod Oblast.

Distribution in Russia: AD, BEL, BRY, CU, KIR, KLU, KM, LEN, ME, MO, MOW, NIZ, ORE, ORL, PRI, PSK, RYA, SAM, SPE, SVE, TA, TUL, ULY, VOR.

Specimen examined: Novgorod Oblast, Chudovsky District, 2 km south-westward to the Krasnofarforny settlement, vicinity of the old cemetery, on fallen trunk of *Quercus robur* in oak forest, 11.10.2018, coll. and det. SB (LE 321634).

SEBACINALES

Sebacina incrustans (Pers.) Tul. et C. Tul. – new for Novosibirsk Oblast.

Distribution in Russia: AD, AMU, KHA, KRS, KYA, LEN, LIP, MOS, PRI, PSK, ROS, SA, SAR, SPE, SVE, TOM, TVE.

Specimen examined: Novosibirsk Oblast, Novosibirsk city, vicinity of Akademgorodok, botanical garden, 54.8222° N, 86.1056° E, on soil and litter in pine-birch forest, 28.08.2008, coll. and det. VV (NSK 1014211).

THELEPHORALES

Sarcodon glaucopus Maas Geest. et Nannf. – new for Arkhangelsk Oblast.

Distribution in Russia: KGD, KR, LEN.

Specimen examined: Arkhangelsk Oblast, Plesetsky District, neighborhood of railway station Sheleksa, on soil in coniferous forest, 25.08.2017, coll. OE, det. IZ (AR 3165).

Tomentella italica (Sacc.) M.J. Larsen – new for Volgograd Oblast.

Distribution in Russia: NIZ, ORE.

Specimen examined: Volgograd Oblast, Svetloarsky District, Chapurnikovskaya Balka forest area, in 2 km north-westward to the Kirova village, 48.4833° N, 44.5000° E, on fallen trunk of *Quercus robur* in black alder-oak forest, 28.09.2014, coll. and det. SV (LE 314066).

Note. This is an extremely rare species in Europe and Asia which occurs on quite destroyed dead wood, fallen bark and adjacent forest litter, and is apparently related to humid habitats such as floodplains and mountain ravines.

Tomentella lilacinogrisea Wakef. – new for Novgorod Oblast.

Distribution in Russia: ARK, IRK, KDA, KHA, KR, KYA, LIP, NVS, PRI, SA, SAK, SPE, SVE, TVE, TY, ZAB.

Specimen examined: Novgorod Oblast, Chudovsky District, 1 km southward to the Krasnofarforny settlement, vicinity of the new cemetery, on dry fronds of *Athyrium filix-femina* in oak forest, 11.10.2018, coll. and det. SB (LE 321632).

Tomentella stuposa (Link) Stalpers – new for Volgograd Oblast.

Distribution in Russia: AMU, ARK, DA, IRK, KC, KDA, KHA, KHM, KO, KR, KYA, LEN, LIP, MO, MOS, MUR, NVS, ORL, PER, PRI, PSK, ROS, SA, SAK, SE, SPE, SVE, TVE, TY, YAN, ZAB.

Specimen examined: Volgograd Oblast, Sredneakhtubinsky District, vicinity to the Chapaevets village, 48.5667° N, 44.8167° E, on fallen trunk of *Quercus robur* in herb-rich oak forest, 26.09.2014, coll. and det. SV (LE 314059).

TRECHISPORALES

Brevicellicium olivascens (Bres.) K.H. Larss. et Hjortstam – new for Volgograd Oblast.

Distribution in Russia: KDA, KGD, LEN, NVS, PER, ROS, SPE, SVE, TOM, TUL.

Specimen examined: Volgograd Oblast, Sredneakhtubinsky District, in 3 km north-westward to the Sukhodol village, 48.6333° N, 44.8667° E, on fallen branches of *Pinus sylvestris* in plantations of *Pinus* sp. and *Robinia pseudoacacia*, 25.09.2014, coll. and det. SV (LE 314072).

Trechispora cohaerens (Schwein.) Jülich et Stalpers – new for Arkhangelsk Oblast.

Distribution in Russia: BEL, BRY, DA, KGD, KO, KR, KYA, LEN, LIP, MOS, NGR, NIZ, NVS, ORL, PER, SA, SAM, SPE, SVE, TA, TVE, YEV, ZAB.

Specimen examined: Arkhangelsk Oblast, Primorsky District, neighborhood of Malye Korely village, on basidiome of *Inonotus obliquus* in mixed forest. 22.09.2018, coll. OE, det. IZ (AR 3190).

Trechispora farinacea (Pers.) Liberta – new for Volgograd Oblast.

Distribution in Russia: ARK, BRY, CE, IRK, KDA, KGD, KM, KO, KR, KYA, LEN, LIP, MO, MUR, NIZ, NVS, ORL, PER, PSK, ROS, SAM, SMO, SPE, SVE, TVE, TY, ZAB.

Specimens examined: Volgograd Oblast, Sredneakhtubinsky District, in 3 km north-westward to the Sukhodol village, 48.6333° N, 44.8667° E, on fallen branches of *Pinus sylvestris* in plantations of *Pinus* sp. and *Robinia pseudoacacia*, 25.09.2014, coll. and det. SV (LE 314071, OHHI 1428).

DISCUSSION

The distribution of the new records of 62 species of *Agaricomycetes* within the regions is shown in the Table 1.

All species cited above can be divided into three groups in an accordance of their distribution among the whole area of Russia. The first group consists of common species which are reported for the first time for the regions unexplored or insufficiently studied in the fungal species diversity. These species are *Bovista aestivalis*, *Cantharellus cibarius*, *Clavulina rugosa*, *Coltricia perennis*, *Cyathus olla*, *Donkia pulcherrima*, *Fistulina hepatica*, *Gloeocystidiellum porosum*, *Hymenochaete rubiginosa*, *Kavinia albovidis*, *Lycoperdon excipuliforme*, *L. lambinonii*, *L. lividum*, *L. nigrescens*, *Lyomyces crustosus*, *Mensularia radiata*, *Osteina obducta*, *Peniophora lycii*, *Phlebia aurea*, *P. tuberculata*, *P. uda*, *Porodaedalea laricis*, *Ramariopsis subtilis*, *R. tenuiramosa*, *Rhodofomes cajanderi*, *Sebacina incrustans*, *Simocybe sumptuosa*, *Steccherinum ochraceum*, *Tomentella lilacinogrisea*, *T. stuposa*, *Trametes ljubarskyi*, *Trechispora cohaerens*, *T. farinacea*, *Typhula ishikariensis*, *Xylobolus frustulatus*, *Xylodon quercinus*. The second group is represented by species that are known based on a few findings from the regions of Russia or by species

Table 1. Species richness of *Agaricomycetes* within the studied regions

Region name	New species reported	Total species number
Volgograd Oblast	14	202
Magadan Oblast	10	577
Yamalo-Nenets Autonomous Okrug	8	427
Arkhangelsk Oblast	6	698
Leningrad Oblast	6	1909
Novgorod Oblast	6	763
Sverdlovsk Oblast	5	1730
Republic of Bashkortostan	3	396
Chelyabinsk Oblast	3	498
Novosibirsk Oblast	2	1041
Omsk Oblast	2	34
Chukotka Autonomous Okrug	2	251
Kirov Oblast	1	634
Altai Krai	1	454
Altai Republic	1	957

having limited distribution in the particular habitat type or vegetation zone: *Albatrellopsis confluens*, *Bovista limosa*, *B. tomentosa*, *Brevicellicium olivascens*, *Calvatia turneri*, *Craterellus lutescens*, *Erythricium hypnophilum*, *Gastrosporium simplex*, *Lycoperdon niveum*, *L. rupicola*, *Naucoria salicis*, *Phellinus rhamnii*, *Phlebia subochracea*, *P. unica*, *Piptoporellus soloniensis*, *Sarcodon glaucopus*, *Woldmaria filicina*. The third group includes species which are new for Russia or very little known in the whole country. Among them *Cantharellus amethysteus* and *Ramariopsis robusta* are reported as the first records in Russia. Three species – *Hygrophoropsis rufa*, *Typhula schoeni*, *Xerocomellus ripariellus* – are recorded in Russia for the second time, and three species – *Ramaria curta*, *Scytinostromella humifaciens*, *Tomentella italica* – for the third time.

The studies on fungal diversity in the regions of Russia will be continued.

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The work of YR was carried out within the frame of the government assignments for South Science Center RAS (“Structural and functional organization and dynamics of plane landscape biocoenoses of the south part of Russia in the conditions of climate change and anthropogenic impact”, AAAA-A19-11901190176-7). The work of OE was carried out in frameworks of State Task (“The structure and variability of populations of forest communities in the northern Arctic regions of the Russian Plain”, AAA-A18-118011690221-0). The work of VV and AV was carried out within the framework of the institutional research project of the Central Siberian botanical garden SB RAS (AAAA-A17-117012610055-3), herbarium specimens from the Bioresources scientific collection (USU 440537) “Herbarium of higher vascular plants, lichens and fungi” (NSK) were used.

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НОВЫЕ ВИДЫ ДЛЯ МИКОБИОТ РЕГИОНОВ РОССИИ.

4. ИНФОРМАЦИОННОЕ СООБЩЕНИЕ – 2019

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Представлены данные о находках 62 видов базидиальных грибов, выявленных впервые для Алтайского края, республик Алтай и Башкортостан, Архангельской, Волгоградской, Кировской, Ленинградской, Магаданской, Новгородской, Новосибирской, Омской, Свердловской, Челябинской областей, Чукотского и Ямало-Ненецкого автономных округов РФ. Аннотированный список включает данные о местонахождениях, местообитаниях, субстратах и датах сбора приводимых находок, с указанием коллекционных номеров микологических гербариев. Впервые для России приводятся *Cantharellus amethysteus* и *Ramariopsis robusta*. Три вида (*Hygrophoropsis rufa*, *Typhula schoeni*, *Xerocomellus ripariellus*) отмечены в России вторыми находками.

Ключевые слова: биоразнообразие, базидиомицеты, распространение грибов, Россия