

FUNGI OF USSURI RIVER VALLEY

乌苏里江流域真菌

Edited by
Y. Li and Z. M. Azbukina



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Summary

The present work sums up the current knowledge on the occurrence and distribution of fungi in Ussuri River Valley. It is the result of a three year study based on the collections made in 2003, 2004, and 2009. In all 2862 species are recognized. In the enumeration, the fungi are listed alphabetically by genus and species for each major taxonomic groups. Collection data include the hosts, place of collection, collecting date, collector(s) and field or herbarium number. This is the most comprehensive checklist of fungi to date in the Ussuri region and useful reference material to all those who are interested in Mycology.

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Introduction

Yu LI, Zinaida M. AZBUKINA

Rising in mountainous region at the extreme south end of Primorsky Territory and flowing north to join the Amur (Heilongjiang River) near Khabarovsk and Fuyuan, Ussuri River forms a boundary between Primorsky Territory of Russian Far East and Northeast China. A west tributary of upper course of the river is outlet for Lake Khanka (Xingkaihu). The climate of the Ussuri valley is continental but influenced by the monsoon to some extent, with annual precipitation of about 500-600 mm and annual temperatures ranging between 3-4°C in the south and about 2°C in the north. The vegetation is mainly coniferous broad-leaved mixed forest. The characteristic tree species include *Pinus koraiensis* Siebold & Zucc., *Quercus mongolica* Fisch. ex Ledeb., *Tilia amurensis* Rupr., *Fraxinus mandshurica* Rupr., *Phellodendron amurense* Rupr., *Juglans mandshurica* Maxim., etc. In the south of Ussuri, the forest vegetation also includes a significant component of endemic trees such as *Abies holophylla* Maxim., *Pinus takahasii* Nakai, *Acer mandshuricum* Maxim., etc.

The Ussuri region in Russia is often considered to be one of the best mycologically documented areas. However, little detailed information has been available for a sizable area in China's side of the river. The rapid economical development in this region is accompanied by a large amount of loss of natural habitat, especially at China's side. Therefore, investigation of fungal biodiversity of this region is extremely urgent. The aim of this study is to acquire further knowledge of fungal biodiversity in the whole Ussuri region extending across the bounds of two countries and to publish a checklist of taxa collected at both sides of the river. We believe that the assessment of fungal biodiversity in the region could lay the foundations for future mycological conservation plans and measures.

Floristic field surveys were carried out by mycologists of Institute of Biology and Soil Science, Far East Branch of the Russian Academy of Sciences, Vladivostok, and Engineering Research Center of Chinese Ministry of Education for Edible and Medicinal Fungi, Jilin Agricultural University, Changchun. Collectors include Y. Li, Z.M. Azbukina, T. Bau, A.V. Bogacheva, E.M. Bulakh, L.N. Vasilyeva, L.N. Egorova, O.K. Govorova, J.Y. Zhuang, and P. Liu. A total of 40 days was spent in fieldwork in September of 2003, August of 2004, and July of 2009. Our efforts were largely focused on areas of Chinese territory including northern side of Lake Khanka (Xingkaihu), Hulin, Raohe and Fuyuan, and areas of Russian territory including the southern side of Lake Khanka, Ussuriysk, Vladivostok, and the surrounding areas of Khabarovsk. The result is a checklist of 2862 species, based on our own studies on

the collections mainly made by the investigators mentioned above. Earlier collections made by other investigators are also included. Within the major taxonomic groups, the fungi are listed alphabetically by genus and species. Specimen collection data include the host or substrate, place of collections, collecting date, collector (s), field or herbarium number. In addition, we have also included some literature records without citation of specimens, checked from earlier or more recent publications in order to enrich the checklist to the full extent. The specimens are preserved at the Herbarium of Institute of Mycology, Jilin Agricultural University, Changchun, China (HMJAU) and the Herbarium of Institute of Biology and Soil Science, Far East Branch of the Russian Academy of Sciences, Vladivostok, Russia (VLA). The main identification system used in this book is referring to “The Dictionary of Fungi (9th edition)” except a few changes.

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Ascomycetes: Sordariomycetidae, Dothideomycetidae, Erysiphomycetidae, Rhytismomycetidae

Larissa N. VASILYEVA

The checklist that follows is based upon specimens collected by the author in Russia (Primorsky Territory: Ussuriysk Nature Reserve, Khanka Nature Reserve, Big Khekhtsir Nature Reserve, Bastak Nature Reserve) and China (Heilongjiang Province: Xingkaihu Nature Reserve, Weihushan Nature Reserve, in the vicinity of Sanjiang Nature Reserve, as well as in and around Hulin, Raohe, and Fuyuan).

Only 20 species of pyrenomycetes and loculoascomycetes has been reported previously for Heilongjiang Province (Teng, 1964; Kobayashi, Zhao, 1989), and eight of these were collected again in the Ussuri River Valley, namely *Cryptosphaeria populina* (Pers.) Sacc. (now *C. lygniota*), *Diatrype tumida* Ellis & Everh. (now *Eutypella leprosa*), *Diatrypella favacea* (Fr.) Nitschke, *Dothidea collecta* (Schwein.) Ellis & Everh. (now *D. puccinioides*), *Hypospilina oharana* (Y. Nisik. & H. Matsumoto) Katum. & Y. Harada (now *Stegophora oharana*), *Hypoxylon marginatum* (Schwein.) Berk. (now *H. annulatum*), *Polystigma fulvum* DC., and “*Xylaria corniformis*” (Fr.) Fr. However, results obtained in recent studies have indicated that the specimens of the latter species from the north-eastern Asia should be re-identified as *Xylaria primorskensis* Y.-M. Ju, H.-M. Hsieh, Lar.N. Vassiljeva & Akulov (Ju et al., 2009).

While reporting *Hypoxylon rubiginosum* (Pers. : Fr.) Fr., Teng (1964) has followed Miller’s (1961) concept of that species, but the latter has been recognized as also including *H. perforatum* (Schwein. : Fr.) Fr. Only *H. perforatum* was found again in Heilongjiang Province, although *H. rubiginosum* could have been expected. As to *Daldinia concentrica* (Bolton : Fr.) Ces. et De Not. (Teng, 1964), this species seems to be excluded from the checklists of fungi collected in East Asia. Drs. Yu-Ming Ju and Marc Stadler (pers. comm.) unanimously think that *D. concentrica* does not occur here and all the collections under this name should be reconsidered.

Sometimes, it was difficult to judge the occurrence of a particular species because of differences in species concepts. Thus, the checklist contains *Biscogniauxia pezizoides*, which is not reported for China. However, the concept of *B. repanda* (Fr. : Fr.) Kuntze that is used (Teng, 1964) (as *Nummularia repanda*) might encompass the former species. Unfortunately, Teng almost

never referred to the host plants of stromatic pyrenomycetes, which are not so plurivorous as they were once thought to be. In the case of two last species, *B. repanda* is restricted to *Sorbus* spp., while *B. pezizoides* occurs on *Ulmus* spp. (rarely on *Acer* spp.). Some other examples of “segregates” that were not known in China previously are *Rosellinia corticium* and *Diatrype macounii*, which could be identified as *Rosellinia aquila* (Fr. : Fr.) De Not. and *Diatrype bullata* (Hoffm. : Fr.) Fr., respectively (Teng, 1964; Tai, 1979; Eriksson, Yue, 1988).

A number of species described from the Russian Far East (Vasilyeva, 1998) were also found in China. Examples include *Chromendothia citrina*, *Cryptosphaeria exornata*, *Daldinia gelatinoides*, *Melogramma corylina*. The species newly found in China are marked by a single asterisk. This information was derived as a result of studying numerous published works (Teng, 1964; Tai, 1979; Eriksson, Yue, 1988; Yuan, Zhao, 1993; Liu, Doi, 1995; Liang et al., 1995; Abe, Liu, 1996; Liu et al., 2000; Zhuang, Sun, 2001; Liu et al., 2002; Wang, Liu, 2002; Zhang, Zhuang, 2003; Bau, 2005; Zhuang, 2005; Luo, Zhuang, 2008). The species newly recorded in East Asia (either in Russia or in China) are marked by two asterisks. Several new species were described recently. These are *Rossmania ukurunduensis* (Vasilyeva, 2001), *Daldinia carpnicola* (Vasilyeva, Stadler, 2008), *Diaporthella corylina*, *Leucodiaporthe juglandis*, *Leucostoma pseudoniveum*, *Phragmodiaporthe padi* (Vasilyeva et al., 2007). Types of three latter species were collected in Heilongjiang Province. These species known only from north-eastern Asia are marked by three asterisks.

The division of the class Ascomycetes into subclasses is given in accordance with the electronic resource www.biolib.cz except for the group Rhytismomycetidae created informally for the order Rhytismatales.

ASCOMYCETES

SORDARIOMYCETIDAE

CALOSPHAERIALES

CALOSPHAERIACEAE

Calosphaeria pusilla (Wahlenb.) P. Karst.

On dead branches of *Betula* sp., Raohe, 7 Aug. 2004, L.N. Vasilyeva, VLA P-1450.

CORONOPHORALES

CORONOPHORACEAE

* *Coronophora angustata* Fuckel

On dead branches of *Betula* sp., Fuyuan: Chuangxin, 5 Aug. 2004, L.N. Vasilyeva, VLA

P-1469.

** *Fracchiaea subcongregata* (Berk. & M.A. Curtis) Ellis & Everh.

On dead branch of *Acer* sp., Big Khekhtsir Nature Reserve, 27 Aug. 1983, L.N. Vasilyeva, VLA P-1397. - The name of this species was indicated (Vasilyeva, 1998) as a synonym of *F. broomeana* (Berk.) Petch, but the latter species has larger ascospores.

Loranitschkia viticola Lar.N. Vassiljeva.

On dead *Vitis amurensis* Rupr., Ussuriysk Nature Reserve, 27 Aug. 1989, L.N. Vasilyeva, VLA P-235; Bastak Nature Reserve, 19 Aug. 2004, L.N. Vasilyeva, VLA P-334.

Nitschkia floridana Fitzp.

On decayed wood, Ussuriysk Nature Reserve, 21 Aug. 1989, L.N. Vasilyeva, VLA P-357.

Tympanopsis confertula (Schwein.) Lar.N. Vassiljeva

On dead branches of *Fraxinus* sp., Big Khekhtsir Nature Reserve, 28 Aug. 1983, L.N. Vasilyeva, VLA P-1373. - On wood, Hulin: Dongfanghong, Sept. 3, 2003, L.N. Vasilyeva, VLA P-1731.

DIAPORTHALES

GNOMONIACEAE

Apiothecium vepris (Delacr.) Lar.N. Vassiljeva

On dead stems of *Rubus sachalinensis* Lévl., Big Khekhtsir Nature Reserve, 25 Aug. 1983, L.N. Vasilyeva, VLA P-1865.

* *Gnomonia setacea* (Pers. : Fr.) Ces. & De Not.

On dead leaves of *Quercus mongolica* Fisch. ex Ledeb., Hulin: 854 State Farm, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1903.

Mamiania fimbriata (Pers.: Fr.) Ces. & De Not.

On living leaves of *Carpinus cordata* Blume, Ussuriysk Nature Reserve, 11 Sept. 1962, I.A. Bunkina, VLA P-238.

Mamianiella coryli (Batsch : Fr.) Höhn.

On living leaves of *Corylus mandshurica* Maxim., Ussuriysk Nature Reserve, Sept. 1953, I.A. Bunkina, VLA P-259.

Plagiostoma devexum (Desm.) Fuckel

On dead stems of *Polygonum* sp., Big Khekhtsir Nature Reserve, 22 Aug. 1983, L.N. Vasilyeva, VLA P-1042.

Stegophora oharana (Y. Nisik. & H. Matsumoto) Petr.

On living leaves of *Ulmus japonica* (Rehd.) Sarg., Ussuriysk Nature Reserve, 30 Sept. 1962, L. Gurskaya, VLA P-368; Big Khekhtsir Nature Reserve, 26 Jun. 1981, V.N. Frolova,

VLA P-373.

VALSACEAE

* *Allantoportha tessella* (Pers. : Fr.) Petr. Plate 1: 1

On dead branches of *Salix* spp., Ussuriysk Nature Reserve, 27 Aug. 1989, L.N. Vasilyeva, VLA P-1; Raohe, 7 Aug. 2004, L.N. Vasilyeva, VLA P-1904.

Anisogramma anomala (Peck) E. Müll.

On living branches of *Corylus mandshurica* Maxim., Ussuriysk Nature Reserve, 28 Aug. 1989, L.N. Vasilyeva, VLA P-22. - On living branches of *Corylus heterophylla* Fisch. ex Trautv., Khanka Nature Reserve, 18 Jun. 2003, L.N. Vasilyeva, VLA P-20; Bastak Nature Reserve, 19 Aug. 2004, L.N. Vasilyeva, VLA P-25.

** *Diaporthe crataegi* (Curr.) Nitschke

On dead branches of *Crataegus pinnatifida* Bunge, Khanka Nature Reserve, L.N. Vasilyeva, 18 Jun. 2003, VLA P-1846.

Diaporthe decedens (Fr.) Fuckel

On dead branches of *Corylus heterophylla* Fisch. ex Trautv., Bastak Nature Reserve, 19 Aug. 2004, L.N. Vasilyeva, VLA P-56.

Diaporthe fibrosa (Pers. : Fr.) Nitschke

On dead branches of *Rhamnus ussuriensis* Ja. Vassil., Khanka Nature Reserve, 19 Jun. 2003, L.N. Vasilyeva, VLA P-1860.

Diaporthe oncostoma (Duby) Fuckel

On dead branches of *Maackia amurensis* Rupr. et Maxim., Bastak Nature Reserve, 19 Aug. 2004, L.N. Vasilyeva, VLA P-901.

*** *Diaporthella corylina* Lar.N. Vassilyeva Plate 1: 2

On dying stems of *Corylus* sp., Fuyuan, 4 Aug. 2004, L.N. Vasilyeva, VLA P-1866.

Hercoportha coryli Lar.N. Vassiljeva

On dead branches of *Corylus mandshurica* Maxim., Ussuriysk Nature Reserve, 29 Aug. 1989, L.N. Vasilyeva, VLA P-159 .

*** *Leucodiaporthe juglandis* Lar.N. Vassiljeva Plate 1: 3

On dead branches of *Juglans mandshurica* Maxim., Hulin, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1867.

* *Leucodiaporthe maackii* (Lar.N. Vassiljeva) M.E. Barr & Lar.N. Vassiljeva (= *Cryphonectria maackii* Lar.N. Vassilyeva) Plate 1: 4

On *Maackia amurensis* Rupr. et Maxim., Big Khekhtsir Nature Reserve, 12 Oct. 1981, L.N. Vasilyeva, VLA P-1362; Ussuriysk Nature Reserve, 29 Aug. 1989, L.N. Vasilyeva, VLA P-332; Hulin: 854 State Farm, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1905; Bastak Nature Reserve, 18 Aug. 2004, L.N. Vasilyeva, VLA P-234.

Leucostoma diatrypa (Fr. : Fr.) Höhn.

On dead branches of *Betula* sp., Ussuriysk Nature Reserve, 23 Aug. 1989, L.N. Vasilyeva, VLA P-212.

** ***Leucostoma excipienda*** (P. Karst.) Lar.N. Vassiljeva

On dead branches of *Padus avium* Mill., Weihushan Nature Reserve: Northern Tiger Forest Garden, 9 Aug. 2004, L.N. Vasilyeva, VLA P-1670.

*** ***Leucostoma pseudoniveum*** Lar.N. Vassiljeva Plate 1: 5

On the bark of *Populus* sp., Fuyuan, 4 Aug. 2004, L.N. Vasilyeva, VLA P-1906; Bastak Nature Reserve, 19 Aug. 2004, L.N. Vasilyeva, VLA P-1907.

* ***Melanconis carthusiana*** Tul.

On *Juglans mandshurica* Maxim., Ussuriysk Nature Reserve, 14 Aug. 1989, L.N. Vasilyeva, VLA P-271; Hulin: 854 State Farm, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1908.

* ***Melanconis leiphaemia*** (Fr. : Fr.) Lar.N. Vassiljeva

On *Quercus mongolica* Fisch. ex Ledeb., Big Khekhtsir Nature Reserve, 23 Aug. 1983, L.N. Vasilyeva, VLA P-796; Hulin: Hutou, 4 Sept. 2003, L.N. Vasilyeva, VLA P-1683; Fuyuan, 4 Aug. 2004, L.N. Vasilyeva, VLA P-1682.

* ***Melanconis stilbostoma*** (Fr. : Fr.) Tul.

On dead branches of *Betula* sp., Big Khekhtsir Nature Reserve, 18 Oct. 1981, L.N. Vasilyeva, VLA P-1839; Hulin: 854 State Farm, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1688.

Melanconis thelebola (Fr.) Sacc.

On dead branches of *Alnus hirsuta* (Spach) Fisch. ex Rupr., Ussuriysk Nature Reserve, 12 Aug. 1989, L.N. Vasilyeva, VLA P-338.

* ***Ophiovalsa betulae*** (Tul. & C. Tul.) Petr.

On dead branches of *Betula* sp., Sanjiang Nature Reserve: Dongxing cun, 5 Aug. 2004, L.N. Vasilyeva, VLA P-1702.

** ***Ophiovalsa corylina*** (Tul. & C. Tul.) Petr.

On dead branches of *Corylus heterophylla* Fisch. ex Trautv., Khanka Nature Reserve, 18 Jun. 2003, L.N. Vasilyeva, VLA P-1851.

Ophiovalsa suffusa (Fr. : Fr.) Petr.

On dead branches of *Alnus hirsuta* (Spach) Turcz. ex Rupr., Bastak Nature Reserve, 18 Aug. 2004, L.N. Vasilyeva, VLA P-1849.

Ophiovalsa tiliae (Tul. & C. Tul.) Petr.

On dead branches of *Tilia* sp., Khanka Nature Reserve, 21 Jun. 2004, L.N. Vasilyeva, VLA P-1852.

*** ***Phragmodiaporthe padi*** Lar. N. Vassiljeva

On dead branches of *Padus avium* Mill., Weihushan Nature Reserve, Northern Tiger Forest Garden, 9 Aug. 2004, L.N. Vasilyeva, VLA P-1870.

*** *Rossmania ukurunduensis* Lar.N. Vassiljeva

On dead branches of *Acer ukurunduense* Trautv. et Mey., Big Khekhtsir Nature Reserve, 28 Aug. 1983, L.N. Vasilyeva, VLA P-360.

Valsa ambiens (Pers. : Fr.) Fr. Plate 1: 6

On dead branches of *Ulmus japonica* (Rehd.) Sarg., Ussuriysk Nature Reserve, 21 Oct. 1956, I.A. Bunkina, VLA P-721. - On dead branches *Tilia amurensis* Rupr., Hulin, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1735.

Valsa ceratosperma (Tode : Fr.) Maire

On dead branches of deciduous trees, Ussuriysk Nature Reserve, 23 Aug. 1989, L.N. Vasilyeva, VLA P-375; Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1736.

* *Valsa germanica* Nitschke

On dead branches of *Salix* sp., Weihushan Nature Reserve: Northern Tiger Forest Garden, 9 Aug. 2004, L.N. Vasilyeva, VLA P-1737.

** *Valsa leucostomoides* Peck

On dead branches of *Acer* sp., Big Khekhtsir Nature Reserve, 16 Oct. 1981, L.N. Vasilyeva, VLA P-1853.

Valsa salicina (Pers. : Fr.) Fr.

On dead branches of *Salix* spp., Ussuriysk Nature Reserve, 21 Oct. 1956, A.A. Ablakatova, VLA P-731; Big Khekhtsir Nature Reserve, 16 Aug. 2004, L.N. Vasilyeva, VLA P-1864.

Valsa sordida Nitschke

On dead branches of *Salix* sp., Big Khekhtsir Nature Reserve, 19 Sept. 1982, L.N. Vasilyeva, VLA P-376. - On dead branches of *Populus* sp., Raohe: Shengli State Farm, 6 Sept. 2003, L.N. Vasilyeva, VLA P-1871.

DIATRYPALES

DIATRYPACEAE

Amphisphaerella lonicericola (Z.Q. Yuan & Z.Y. Zhao) Lar.N. Vassiljeva

On dead branches of *Lonicera* sp., Ussuriysk Nature Reserve, 29 Aug. 1989, L.N. Vasilyeva, VLA P-442.

Amphisphaerella xylostei (Pers. : Fr.) Munk

On dead branches of *Lonicera* sp., Ussuriysk Nature Reserve, 27 Aug. 1989, L.N. Vasilyeva, VLA P-445.

Azbukinia ferruginea (Fuckel) Lar.N. Vassiljeva

In wood of dead branches *Fraxinus* spp., Big Khekhtsir Nature Reserve, 25 Sept. 1982, L.N. Vasilyeva, VLA P-29; Ussuriysk Nature Reserve, 18 Aug. 1989, L.N. Vasilyeva,

VLA P-30.

Biscogniauxia cinereolilacina (J.H. Mill.) Pouzar

On *Tilia amurensis* Rupr., Ussuriysk Nature Reserve, 27 Aug. 1989, L.N. Vasilyeva, VLA P-13; Big Khekhtsir Nature Reserve, 15 Aug. 2004, L.N. Vasilyeva, VLA P-16; Bastak Nature Reserve, 19 Aug. 2004, L.N. Vasilyeva, VLA P-19.

* ***Biscogniauxia granmoi*** Lar.N. Vassiljeva

On *Padus avium* Mill., Big Khekhtsir Nature Reserve, 24 Sept. 1982, L.N. Vasilyeva, VLA P-33; Ussuriysk Nature Reserve, 10 Aug. 1989, L.N. Vasilyeva, VLA P-38; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-34; Hulin: Wulindong, 4 Sept. 2003, L.N. Vasilyeva, VLA P-1430.

Biscogniauxia mandshurica Lar.N. Vassiljeva Plate 2: 7

On dead branches *Malus mandshurica* (Maxim.) Kom., Ussuriysk Nature Reserve, 23 Aug. 1989, L.N. Vasilyeva, VLA P-39; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-40.

Biscogniauxia marginata (Fr. : Fr.) Pouzar

On dead branches of *Malus baccata* (L.) Borkh., Khanka Nature Reserve, 21 Jun. 2004, L.N. Vasilyeva, VLA P-1850.

Biscogniauxia maritima Lar.N. Vassiljeva

On dead branches of *Quercus mongolica* Fisch. ex Ledeb., Ussuriysk Nature Reserve, 28 Aug. 1989, L.N. Vasilyeva, VLA P-45; Bastak Nature Reserve, 18 Aug. 2004, L.N. Vasilyeva, VLA P-42.

Biscogniauxia mediterranea (De Not.) Kuntze

On dead branches of *Quercus mongolica* Fisch. ex Ledeb., Big Khekhtsir Nature Reserve, 24 Sept. 1982, L.N. Vasilyeva, VLA P-1408; Khanka Nature Reserve, 18 Jun. 2003, L.N. Vasilyeva, VLA P-1862; Hulin: 854 State Farm, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1437; Sanjiang Nature Reserve: Dongxing cun, 5 Aug. 2004, L.N. Vasilyeva, VLA P-1438.

** ***Biscogniauxia mediterranea*** var. ***microspora*** (J.H. Mill.) Y.M. Ju & J.D. Rogers

On dead branches of *Corylus heterophylla* Fisch. ex Trautv., Khanka Nature Reserve, 18 Jun. 2003, L.N. Vasilyeva, VLA P-1861.

* ***Biscogniauxia pezizoides*** (Ellis & Everh.) Kuntze Plate 2: 8

On dead branches of *Ulmus* spp., Big Khekhtsir Nature Reserve, 22 Aug. 1983, L.N. Vasilyeva, VLA P-278; Ussuriysk Nature Reserve, 27 Aug. 1989, L.N. Vasilyeva, VLA P-273; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-272; Xingkaihu Nature Reserve, 1 Sept. 2003, L.N. Vasilyeva, VLA P-1439; Fuyuan, 4 Aug. 2004, L.N. Vasilyeva, VLA P-1441. - On dead branches of *Acer mono* Maxim., Hulin: Wulindong, 4 Sept. 2003, L.N. Vasilyeva, VLA P-1442.

** ***Biscogniauxia simplicior*** Pouzar

On dead branches of *Rhamnus* spp., Big Khekhtsir Nature Reserve, 20 Jun. 2000, L.N.

Vasilyeva, VLA P-1773; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-1863.

* *Biscogniauxia succenturiata* (Tode : Fr.) Kuntze

On *Quercus mongolica* Fisch. ex Ledeb., Xingkaihu Nature Reserve, 1 Sept. 2003, L.N. Vasilyeva, VLA P-1444.

Camarops polysperma (Mont.) J.H. Mill.

On dead branches of *Alnus hirsuta* (Spach) Turcz. ex Rupr., Big Khekhtsir Nature Reserve, 2 Aug. 2000, K.N. Tkachenko, VLA P-1403.

* *Cryptosphaeria exornata* Lar.N. Vassiljeva Plate 2: 9

On dead branches and trunks of *Fraxinus* spp., Big Khekhtsir Nature Reserve, 24 Aug. 1983, L.N. Vasilyeva, VLA P-290; Ussuriysk Nature Reserve, 23 Aug. 1989, L.N. Vasilyeva, VLA P-300; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-289; Hulin: Dongfanghong, Sept. 3, 2003, L.N. Vasilyeva, VLA P-1477.

Cryptosphaeria lygniota (Fr.) Auersw.

On dead branches of *Populus* spp., Big Khekhtsir Nature Reserve, 19 Aug. 1983, L.N. Vasilyeva, VLA P-1872; Ussuriysk Nature Reserve, 28 Aug. 1989, L.N. Vasilyeva, VLA P-1873; Xingkaihu Nature Reserve, 1 Sept. 2003, L.N. Vasilyeva, VLA P-1478.

Cryptosphaeria subcutanea (Wahlenb. : Fr.) Rappaz

On dead branches of *Salix* sp., Ussutiysk Nature Reserve, 23 Aug. 1989, L.N. Vasilyeva, VLA P-305.

Cryptosphaeria venusta Lar.N. Vassiljeva Plate 2: 10

On dead branches of *Betula* spp., Big Khekhtsir Nature Reserve, 27 Aug. 1983, L.N. Vasilyeva, VLA P-314; Ussutiysk Nature Reserve, 13 Aug. 1989, L.N. Vasilyeva, VLA P-312.

*** *Cryptovalsaria rossica* Lar.N. Vassiljeva & S.L. Stephenson

On living trunk of *Alnus hirsuta* (Spach) Turcz. ex Rupr., Big Khekhtsir Nature Reserve, 2 Aug. 2000, K.N. Tkachenko, VLA P-1118.

Diatrype acericola De Not.

On dead branches of *Acer mono* Maxim., Big Khekhtsir Reserve, 28 Aug. 1983, L.N. Vasilyeva, VLA P-67; Ussuriysk Nature Reserve, 23 Aug. 1989, L.N. Vasilyeva, VLA P-78; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-69; Bastak Nature Reserve, 19 Aug. 2004, L.N. Vasilyeva, VLA P-68.

Diatrype albopruinosa (Schwein.) Cooke Plate 2: 11

On dead branches of *Maackia amurensis* Rupr. et Maxim., Sanjiang Nature Reserve: Dongxing cun, 5 Aug. 2004, L.N. Vasilyeva, VLA P-1489. - On dead branches of *Padus avium* Mill., Weihushan Nature Reserve: Northern Tiger Forest Garden, 9 Aug. 2004, L.N. Vasilyeva, VLA P-1488.

Diatrype hypoxyloides De Not.

On dead branches of *Quercus mongolica* Fisch. ex Ledeb., Big Khekhtsir Nature Reserve, 25 Sept. 1982, L.N. Vasilyeva, VLA P-416; Ussuriysk Nature Reserve, 28 Aug. 1989, L.N.

Vasilyeva, VLA P-396; Raohe, 7 Aug. 2004, L.N. Vasilyeva, VLA P-1502.

** *Diatrype macounii* Ellis et Everh. Plate 2: 12

On dead branches of *Salix* sp., Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1503.

Diatrype platystoma (Schwein. : Fr.) Berk.

On dead branches of deciduous trees, Big Khekhtsir Nature Reserve, 13 Oct. 1983, L.N. Vasilyeva, VLA P-97. - On dead branches *Acer* spp., Big Khekhtsir Nature Reserve, 22 Sept. 1982, L.N. Vasilyeva, VLA P-96; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-1855. - On dead branches *Betula* spp., Big Khekhtsir Nature Reserve, 19 Oct. 1981, L.N. Vasilyeva, VLA P-99; Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1504. - On dead branches of *Crataegus* spp., Ussuriysk Nature Reserve, 15 Aug. 1989, L.N. Vasilyeva, VLA P-81; Big Khekhtsir Nature Reserve, 22 Aug. 1983, L.N. Vasilyeva, VLA P-101. - On dead branches of *Corylus mandshurica* Maxim., Big Khekhtsir Nature Reserve, 19 Oct. 1981, L.N. Vasilyeva, VLA P-102. - On dead branches of *Juglans mandshurica* Maxim., Big Khekhtsir Nature Reserve, 22 Sept. 1982, L.N. Vasilyeva, VLA P-100. - On dead branches of *Quercus mongolica* Fisch. ex Ledeb., Ussuriysk Nature Reserve, 23 Aug. 1987, L.N. Vasilyeva, VLA P-82.

** *Diatrype spilomea* Syd.

On dead branches of *Acer* spp., Ussuriysk Nature Reserve, 28 Apr. 1956, I.A. Bunkina, VLA P-402; Big Khekhtsir Nature Reserve, 27 Aug. 1983, L.N. Vasilyeva, VLA P-1370; Bastak Nature Reserve, 18 Aug. 2004, L.N. Vasilyeva, VLA P-91.

Diatrype stigma (Hoffm. : Fr.) Fr.

On dead branches of *Corylus heterophylla* Fisch. ex Trautv. and *Tilia amurensis* Rupr., Bastak Nature Reserve, 19 Aug. 2004, L.N. Vasilyeva, VLA P-404, P-1823. - On *Quercus mongolica* Fisch. ex Ledeb., Big Khekhtsir Nature Reserve, 23 Aug. 1983, L.N. Vasilyeva, VLA P-411.

** *Diatrype subaffixa* (Schwein.) Cooke

On dead branches of *Padus avium* Mill., Ussuriysk Nature Reserve, 27 Aug. 1989, L.N. Vasilyeva, VLA P-417.

* *Diatrype undulata* (Pers. : Fr.) Fr.

On dead branches of *Betula* spp., Big Khekhtsir Nature Reserve, 27 Aug. 1983, L.N. Vasilyeva, VLA P-410; Fuyuan, 4 Aug. 2004, L.N. Vasilyeva, VLA P-1532.

** *Diatrypella circumvallata* (Nees : Fr.) Fuckel

On dead branches of *Corylus* spp., Ussuriysk Nature Reserve, 23 Oct. 1956, I.A. Bunkina, VLA P-128; Big Khekhtsir Nature Reserve, 19 Aug. 1983, L.N. Vasilyeva, VLA P-127.

Diatrypella decorata Nitschke

On dead branches of *Betula* spp., Big Khekhtsir Nature Reserve, 25 Aug. 1983, L.N. Vasilyeva, VLA P-431; Ussuriysk Nature Reserve, 13 Aug. 1989, L.N. Vasilyeva, VLA P-430;

Khanka Nature Reserve, 18 Jun. 2003, L.N. Vasilyeva, VLA P-432; Raohe: Shengli State Farm, 6 Sept. 2003, L.N. Vasilyeva, VLA P-1537.

Diatrypella favacea (Fr.) Ces. & De Not.

On dead branches of *Betula* spp., Big Khekhtsir Nature Reserve, 20 Aug. 1983, L.N. Vasilyeva, VLA P-420; Sanjiang Nature Reserve: Dongxing cun, 5 Aug. 2004, L.N. Vasilyeva, VLA P-1542.

** ***Diatrypella informis*** Ellis & Everh.

On dead branches of *Carpinus cordata* Blume, Ussuriysk Nature Reserve, 19 Aug. 1989, L.N. Vasilyeva, VLA P-2265.

Diatrypella melaena Nitschke

On dead branches of *Betula* spp., Big Khekhtsir Nature Reserve, 21 Aug. 1983, L.N. Vasilyeva, VLA P-481.

* ***Diatrypella placenta*** Rehm

On dead branches of *Alnus hirsuta* (Spach) Turcz. ex Rupr., Big Khekhtsir Nature Reserve, 25 Sept. 1982, L.N. Vasilyeva, VLA P-490; Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1547. - On dead branches of *Betula* spp., Big Khekhtsir Nature Reserve, 22 Sept. 1982, L.N. Vasilyeva, VLA P-492; Sanjiang Nature Reserve: Dongxing cun, 5 Aug. 2004, L.N. Vasilyeva, VLA P-1546.

Diatrypella pulvinata Nitschke

On dead branches of *Quercus mongolica* Fisch. ex Ledeb., Big Khekhtsir Nature Reserve, 23 Aug. 1983, L.N. Vasilyeva, VLA P-508; Ussuriysk Nature Reserve, 13 Aug. 1989, L.N. Vasilyeva, VLA P-494.

* ***Diatrypella tocciaena*** De Not.

On dead branches of *Alnus hirsuta* (Spach) Turcz. ex Rupr., Big Khekhtsir Nature Reserve, 16 Aug. 2004, L.N. Vasilyeva, VLA P-141; Raohe, 7 Aug. 2004, L.N. Vasilyeva, VLA P-1548.

Diatrypella verrucaeformis (Ehrh. : Fr.) Nitschke

On dead branches of *Betula* sp., Hulin: 854 State Farm, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1550.

* ***Eutypa crustata*** (Fr.) Sacc.

On dead branches of *Ulmus* spp., Big Khekhtsir Nature Reserve, 22 Aug. 1983, L.N. Vasilyeva, VLA P-1874; Ussuriysk Nature Reserve, 23 Aug. 1989, L.N. Vasilyeva, VLA P-1875; Xingkaihu Nature Reserve, 1 Sept. 2003, L.N. Vasilyeva, VLA P-1876.

Eutypa lata (Pers. : Fr.) Tul. & C. Tul.

On wood, Big Khekhtsir Nature Reserve, 14 Oct. 1981, L.N. Vasilyeva, VLA P-1909; Ussuriysk Nature Reserve, 12 Aug. 1989, L.N. Vasilyeva, VLA P-1912.

Eutypa lejoplaca (Fr. : Fr.) Fuckel

On wood, Ussuriysk Nature Reserve, 29 Aug. 1989, L.N. Vasilyeva, VLA P-1910.

Eutypa maura (Fr. : Fr.) Tul.

On wood of *Ulmus japonica* (Rehd.) Sarg., Big Khekhtsir Nature Reserve, 21 Aug. 1983, L.N. Vasilyeva, VLA P-1911.

Eutypa macrospora (Nitschke) Sacc.

On dead branches of a deciduous tree, Big Khekhtsir Nature Reserve, 28 Aug. 1983, L.N. Vasilyeva, VLA P-1878.

Eutypa spinosa (Pers. : Fr.) Tul.

On wood of deciduous trees, Ussuriysk Nature Reserve, 16 Oct. 1953, L.N. Vassiljeva, VLA P-1913.

* ***Eutypella alni*** (Fr.) Lar.N. Vassiljeva

On dead branches and trunks of *Alnus hirsuta* (Spach) Turcz. ex Rupr., Big Khekhtsir Nature Reserve, 16 Sept. 1982, L.N. Vasilyeva, VLA P-530; Ussuriysk Nature Reserve, 28 Aug. 1989, L.N. Vasilyeva, VLA P-529; Hulin: Wulindong, 4 Sept. 2003, L.N. Vasilyeva, VLA P-1573; Raohe, 7 Aug. 2004, L.N. Vasilyeva, VLA P-1571.

Eutypella cerviculata (Fr. : Fr.) Sacc.

On dead branches of *Betula platyphylla* Sukacz., Big Khekhtsir Nature Reserve, 27 Aug. 1983, L.N. Vasilyeva, VLA P-783; Ussuriysk Nature Reserve, 14 Aug. 1989, L.N. Vasilyeva, VLA P-782.

Eutypella leprosa (Fr.) Berl.

On dead branches of *Crataegus* sp., Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-1914. - On dead branches of *Lespedeza* spp., Big Khekhtsir Nature Reserve, 25 Sept. 1982, L.N. Vasilyeva, VLA P-1915; Xingkaihu Nature Reserve, 1 Sept. 2003, L.N. Vasilyeva, VLA P-1584. - On dead branches of *Ulmus japonica* (Rehd.) Sarg., Big Khekhtsir Nature Reserve, 19 Aug. 1983, L.N. Vasilyeva, VLA P-1916. - On dead stems of *Vitis amurensis* Rupr., Big Khekhtsir Nature Reserve, 22 Aug. 1983, L.N. Vasilyeva, VLA P-1917.

* ***Eutypella prunastri*** (Pers. : Fr.) Sacc.

On dead branches of *Padus maackii* (Rupr.) Kom., Big Khekhtsir Nature Reserve, 23 Aug. 1983, L.N. Vasilyeva, VLA P-787; Ussuriysk Nature Reserve, 10 Aug. 1989, L.N. Vasilyeva, VLA P-786; Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1586.

Eutypella scoparia (Schwein. : Fr.) Ellis & Everh.

On dead branches of *Lonicera* sp., Ussuriysk Nature Reserve, 15 Aug. 1989, L.N. Vasilyeva, VLA P-788. - On dead branches of a deciduous tree, Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1589.

Eutypella stellulata (Fr. : Fr.) Sacc.

On dead branches of *Ulmus* spp., Ussuriysk Nature Reserve, 9 Aug. 1989, L.N. Vasilyeva, VLA P-790; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-789.

Flageoletia leptasca (Peck & Clint.) Höhn.

On dead branches of *Maackia amurensis* Rupr. et Maxim., Big Khekhtsir Nature Reserve,

24 Sept. 1982, L.N. Vasilyeva, VLA P-791.

Lopadostoma gastrinum (Fr.) Traverso

On dead branches of *Quercus mongolica* Fisch. ex Ledeb., Big Khekhtsir Nature Reserve, 23 Aug. 1983, L.N. Vasilyeva, VLA P-793; Ussuriysk Nature Reserve, 13 Aug. 1989, L.N. Vasilyeva, VLA P-497.

* ***Lopadostoma microsporum*** (P. Karst.) P.M.D. Martin

On dead trunk of *Alnus hirsuta* (Spach) Fisch. ex Rupr., Fuyuan: Chuangxin, 5 Aug. 2004, L.N. Vasilyeva, VLA P-1674.

* ***Melogramma corylina*** Lar.N. Vassiljeva

On dead branches of *Corylus* sp., Sanjiang Nature Reserve: Dongxing cun, 5 Aug. 2004, L.N. Vasilyeva, VLA P-1693.

Peridoxylon petersii (Berk. & M.A. Curtis) Shear

On wood of a deciduous tree, Bastak Nature Reserve, 8 Sept. 2001, E.M. Bulakh, VLA P-687.

Phorcys corylina Lar.N. Vassiljeva

On dead branches of *Corylus mandshurica* Maxim., Ussuriysk Nature Reserve, 13 Aug. 1989, L.N. Vasilyeva, VLA P-812.

* ***Valsaria foedans*** (P. Karst.) Sacc.

On dead branches of *Alnus hirsuta* (Spach) Turcz. ex Rupr. and *Betula* sp., Hulin: Dongfanghong, Sept 3, 2003, L.N. Vasilyeva, VLA P-1739, P-1738.

Valsaria insitiva (Fr.) Ces. & De Not.

On dead branches of *Quercus mongolica* Fisch. ex Ledeb., Big Khekhtsir Nature Reserve, 22 Sept. 1982, L.N. Vasilyeva, VLA P-823.

PHYLLACHORALES

PHYLLACHORACEAE

Phyllachora graminis (Pers. : Fr.) Fuckel

On living leaves of *Calamagrostis* sp., Big Khekhtsir Nature Reserve, 23 Sept. 1982, L.N. Vasilyeva, VLA P-1310.

POLYSTIGMATALES

POLYSTIGMATACEAE

* ***Polystigma fulvum*** DC.

On living leaves of *Padus avium* Mill., Ussuriysk Nature Reserve, 13 Aug. 1958, VLA P-815, I.A. Bunkina; Big Khekhtsir Nature Reserve, 8 Aug. 1981, L.N. Vasilyeva, VLA P-814;

Weihushan Nature Reserve: Northern Tiger Forest Garden, 9 Aug. 2004, L.N. Vasilyeva, VLA P-1708.

Polystigma ussuriensis (Jacz. & Natalyina) Prots.

On living leaves of *Prunus* spp., Gornotayezhnoye, 28 Sept. 1961, A.A. Ablakatova, VLA P-817.

CRYPHONECTRIACEAE

* ***Chromendothia citrina*** Lar. N. Vassiljeva

On dead branches of *Quercus mongolica* Fisch. ex Ledeb., Hulin: 854 State Farm, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1460.

Cryphonectria japonica (Tak. Kobay. & Kaz. Itô) Gryzenh. & M.J. Wingf.

On dead branches of *Quercus mongolica* Fisch. ex Ledeb., Khanka Nature Reserve, 19 Jun. 2003, L.N. Vasilyeva, VLA P-468.

HYPOCREALES

HYPOCREACEAE

Calonectria cyanogena (Desm.) Lar. N. Vassiljeva

On dead stems of a cereal, Hulin: 854 State Farm, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1449.

Claviceps purpurea Tul.

In ovaries of different grasses, Big Khekhtsir Nature Reserve, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps coccinea Penz. & Sacc.

On pupas of Lepidoptera, Big Khekhtsir Nature Reserve, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps corallomyces A. Møller

On larvae of Diptera, Hulin: Dongfanghong, 3 Sept. 2003, A.V. Bogacheva, VLA P-1467; Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps deflectens Penz. & Sacc.

On pupas and larvae of Lepidoptera, Big Khekhtsir Nature Reserve, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps dipterigena Berk. & Broome

On different flies, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps entomorrhiza (Diks.) Fr.

On larvae of Coleoptera, Big Khekhtsir Nature Reserve, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps flavor-brunnescens Henn.

On larvae and pupas of Lepidoptera, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps kobayasii Koval

On pupas and imago of Cicadidae, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps laxcroixii Har. & Pat.

On larvae of Lepidoptera, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps martiales Speg.

On larvae of Coleoptera, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps militaris (Fr.) Link

On larvae and pupas of Lepidoptera, Big Khekhtsir Nature Reserve, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps nutans Pat.

On forest bugs (*Fentatoma* sp.), Hulin: Dongfanghong, 3 Sept. 2003, VLA P-1468; Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps owariensis Kobayasi

On larvae of Cicadidae, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps polyarthra A. Møller

On larvae and pupas of Lepidoptera, Big Khekhtsir Nature Reserve, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps pseudoinsignis Moureau

On larvae of *Melolontha* sp. (Coleoptera), Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps sphaecocephala (Klotzsch) Berk. et M.A. Curtis

On wasps, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps stylophora Berk. & Broome

On larvae of Elateridae (Coleoptera), Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps superficialis (Peck) Sacc.

On larvae and pupas of Coleoptera, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps takaomontana Yakush. & Kumaz.

On larvae and pupas of Lepidoptera, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps tuberculata (Lebert) Maire

On butterflies, Big Khekhtsir Nature Reserve, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps unilateralis (Tul.) Sacc.

On ants, Big Khekhtsir Nature Reserve, Ussuriysk Nature Reserve (Koval, 1991).

Cordyceps variegata Moureau

On larvae and pupas of Lepidoptera, Big Khekhtsir Nature Reserve (Koval, 1991).

Cosmospora episphaeria (Tode : Fr.) Rossmann & Samuels

On old stromata of *Diatrype* sp., Big Khekhtsir Nature Reserve, 20 Aug. 1983, L.N. Vasilyeva, VLA P-462.

Cosmospora purtonii (Grev.) Rossman & Samuels

On old stromata of a diaporthean fungus, Big Khekhtsir Nature Reserve, 25 Sept. 1982, L.N. Vasilyeva, VLA P-465.

Cosmospora vilior (Starbäck) Rossman & Samuels

On old stromata of *Ustulina deusta* (Hoffm. : Fr.) Lind, Ussuriysk Nature Reserve, 28 Aug. 1989, L.N. Vasilyeva, VLA P-464. - This species was indicated before as *Dialonectria ustulinae* (Teng) Lar.N. Vassiljeva (Vasilyeva, 1998).

Creopus testacea Lar. N. Vassiljeva

On wood, Ussuriysk Nature Reserve, 10 Aug. 1989, L.N. Vasilyeva, VLA P-1877.

Epichloe typhina (Pers. : Fr.) Tul.

On living stems of *Calamagrostis langsdowffii* (Link) Trin., Big Khekhtsir Nature Reserve, 22 Sept. 1982, L.N. Vasilyeva, VLA P-1259.

* ***Hypocrea cerebriformis*** Berk.

On decayed wood, Ussuriysk Nature Reserve, 2 Sept. 1962, M.M. Nazarova, VLA P-160; Weihushan Nature Reserve: Northern Tiger Forest Garden, 9 Aug. 2004, E.M. Bulakh, VLA P-1603.

Hypocrea fungicola (P. Karst.) Sacc.

On decayed fruit bodies of *Fomitopsis pinicola* (Sw.) P. Karst., Ussuriysk Nature Reserve, 12 Aug. 1989, L.N. Vasilyeva, VLA P-1918.

** ***Hypocrea megalosulphurea*** Yoshim. Doi

On fruit bodies of *Exidia* sp. from dead branches of *Corylus heterophylla* Fisch. ex Trautv., Bastak Nature Reserve, 19 Aug. 2004, L.N. Vasilyeva, VLA P-92.

Hypomyces subiculosus (Berk. et M. A. Curtis) Höhn.

On fruit bodies of *Coryolus* sp., Ussuriysk Nature Reserve, 18 Aug. 1989, L.N. Vasilyeva, VLA P-795.

Myrmaeciella caraganae Höhn.

On dead branches of *Maackia amurensis* Rupr. et Maxim., Big Khekhtsir Nature Reserve, 24 Sept. 1982, L.N. Vasilyeva, VLA P-801.

Nectria cinnabarina (Tode : Fr.) Fr.

On dead stems of *Aralia elata* (Miq.) Seem., Ussuriysk Nature Reserve, 11 Oct. 1953, L.N. Vassiljeva, VLA P-809; Big Khekhtsir Nature Reserve, 21 Aug. 1983, VLA P-803. - On dead branches of *Ribes* sp., *Schizandra chinensis* (Turcz.) Baill. and *Sorbaria sorbifolia* (L.) A. Br., Ussuriysk Nature Reserve, 28 Aug. 1989, L.N. Vasilyeva, VLA P-805; 28 May 1957, A.A. Ablakatova, VLA P-807; 16 Sept. 1962, L. Gurskaya, VLA P-808. - On dead branches of *Ulmus* spp., Big Khekhtsir Nature Reserve, 28 Aug. 1983, L.N. Vasilyeva, VLA P-802; Ussuriysk Nature Reserve, 21 Aug. 1989, L.N. Vasilyeva, VLA P-806.

Pleonectria balsamea (Cooke & Peck) Lar. N. Vassiljeva

On dead branches of *Abies nephrolepis* (Trautv.) Maxim., Big Khekhtsir Nature Reserve,

19 Oct. 1981, L.N. Vasilyeva, VLA P-1898.

Podostroma alutacea (Pers. : Fr.) G.F. Atk. Plate 3: 13

On wood, Khanka Nature Reserve, 29 Jul. 2007, E.M. Bulakh, VLA P-1376.

** ***Podostroma leucopus*** P. Karst.

In forest litter, Upper Ussuri Station, 9 Sept. 1975, E.M. Bulakh, VLA P-1374; Bastak Nature Reserve, 17 Aug. 2000, E.M. Bulakh, VLA P-1375.

** ***Podostroma giganteum*** S. Imai Plate 3: 14

On wood, Bastak Nature Reserve, 8 Sept. 2001, E.M. Bulakh, VLA P-358.

Sarwakus frustulosus (Berk. & M.A. Curtis) Lar.N. Vassiljeva

On wood, Ussuriysk Nature Reserve, 29 Aug. 1989, L.N. Vasilyeva, VLA P-822; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-1848; Xingkaihu Nature Reserve, 1 Sept. 2003, L.N. Vasilyeva, VLA P-1726; Fuyuan: Chuangxin, 5 Aug. 2004, L.N. Vasilyeva, VLA P-1725.

Scoleconectria cucurbitula (Tode : Fr.) C. Booth

On dead branches of *Larix gmelinii* (Rupr.) Rupr., Big Khekhtsir Nature Reserve, 24 Sept. 1982, L.N. Vasilyeva, VLA P-761.

Torrubiella leiopus (Mains) Kobayasi et Shimizu

On spiders, Big Khekhtsir Nature Reserve (Koval, 1991).

Torrubiella liberiana Mains

On ants in forest litter, Big Khekhtsir Nature Reserve (Koval, 1991).

XYLARIALES

XYLARIACEAE

*** ***Daldinia carpinicola*** Lar.N. Vassiljeva & M. Stadler Plate 3: 15

On dead trunks of *Carpinus cordata* Blume, Ussuriysk Nature Reserve, 18 Sept. 1996, L.N. Vasilyeva, VLA P-1776.

*** ***Daldinia childiae*** J. D. Rogers & Y. M. Ju

On logs, Big Khekhtsir Nature Reserve, 17 Oct. 1981, L.N. Vasilyeva, VLA P-1119; Ussuriysk Nature Reserve, 18 Sept. 1996, L.N. Vasilyeva, VLA P-1762. - On bark, Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1751. - On dead trunk of *Fraxinus* sp., Fuyuan, 4 Aug. 2004, L.N. Vasilyeva, VLA P-1747. - On dead trunk of *Quercus mongolica* Fisch. ex Ledeb., near Sanjiang Nature Reserve: Dongxing cun, 5 Aug. 2004, L.N. Vasilyeva, VLA P-1748. - On dead trunk of *Acer* sp., Raohe: Shengli State Farm, 6 Aug. 2004, E.M. Bulakh, VLA P-1746.

* ***Daldinia gelatinoides*** Lar.N. Vassiljeva

On logs, Sanjiang Nature Reserve: Dongxing cun, 5 Aug. 2004, L.N. Vasilyeva, VLA

P-1786.

Entoleuca mammata (Wahlenb.) J.D. Rogers & Y.M. Ju

On dead branches of *Populus* sp., Ussuriysk Nature Reserve, 23 Aug. 1989, L.N. Vasilyeva, VLA P-150.

Entonaema cinnabarina (Cooke & Masee) Lloyd Plate 3: 16

On dead trees of *Padus avium* Mill., Ussuriysk Nature Reserve, 18 Sept. 1996, L.N. Vasilyeva, VLA P-327.

Hypoxylon annulatum (Schwein. : Fr.) Mont.

On dead branches of *Quercus mongolica* Fisch. ex Ledeb., Big Khekhtsir Nature Reserve, 23 Aug. 1983, L.N. Vasilyeva, VLA P-927; Ussuriysk Nature Reserve, 10 Aug. 1989, L.N. Vasilyeva, VLA P-928; Xingkaihu Nature Reserve, 1 Sept. 2003, L.N. Vasilyeva, VLA P-1609; Hulin: Wulindong, 4 Sept. 2003, L.N. Vasilyeva, VLA P-1607; Raohe, 7 Aug. 2004, L.N. Vasilyeva, VLA P-1610; Bastak Nature Reserve, 18 Aug. 2004, L.N. Vasilyeva, VLA P-925.

Hypoxylon crocopleum Berk. & M.A. Curtis

On wood, Ussuriysk Nature Reserve, 10 Aug. 1989, L.N. Vasilyeva, VLA P-1899.

** ***Hypoxylon dearnessii*** Y.-M. Ju & J.D. Rogers

On dead branches of *Acer ukurunduense* Trautv. et Mey, Big Khekhtsir Nature Reserve, 20 Jun. 2000, L.N. Vasilyeva, VLA P-1104.

Hypoxylon fuscopurpureum (Schwein. : Fr.) M.A. Curtis (= *Hypoxylon vogesiacum* (Pers.) Sacc. var. *microsporium* J.H. Mill.)

On dead branches of *Corylus* spp., Big Khekhtsir Nature Reserve, 12 Oct. 1981, L.N. Vasilyeva, VLA P-1919.

Hypoxylon fuscum (Pers. : Fr.) Fr.

On dead branches of *Alnus hirsuta* (Spach) Turcz. ex Rupr., Big Khekhtsir Nature Reserve, 16 Sept. 1982, L.N. Vasilyeva, VLA P-173; Ussuriysk Nature Reserve, 27 Aug. 1989, L.N. Vasilyeva, VLA P-166; Hulin: Wulindong, 4 Sept. 2003, L.N. Vasilyeva, VLA P-1628. - On dead branches of *Betula platyphylla* Sukacz., Ussuriysk Nature Reserve, 29 Oct. 1956, I.A. Bunkina, VLA P-167. - On dead branches of *Corylus* spp., Ussuriysk Nature Reserve, 28 Apr. 1956, I.A. Bunkina, VLA P-163; Big Khekhtsir Nature Reserve, 12 Oct. 1981, L.N. Vasilyeva, VLA P-168; Bastak Nature Reserve, 19 Aug. 2004, L.N. Vasilyeva, VLA P-169.

Hypoxylon howeanum Peck

On bark of *Betula* sp., Raohe: Shengli State Farm, 6 Aug. 2004, L.N. Vasilyeva, VLA P-1636. - On dead branches of *Corylus* sp., Raohe, 7 Aug. 2004, E.M. Bulakh, VLA P-1635. - On dead branches of a deciduous tree, Hulin: Wulindong, 4 Sept. 2003, L.N. Vasilyeva, VLA P-1634.

* ***Hypoxylon laschii*** Nitschke

On dead branches of *Populus* sp., Xingkaihu Nature Reserve, 1 Sept. 2003, L.N. Vasilyeva, VLA P-1639.

* *Hypoxylon moravicum* Pouzar

On dead branches of *Fraxinus* spp., Big Khekhtsir Nature Reserve, 16 Oct. 1982, L.N. Vasilyeva, VLA P-966; Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1641.

Hypoxylon multiforme (Fr. : Fr.) Fr.

On dead trunks of *Betula* spp., Big Khekhtsir Nature Reserve, 20 Aug. 1983, L.N. Vasilyeva, VLA P-967; Ussuriysk Nature Reserve, 11 Aug. 1989, L.N. Vasilyeva, VLA P-969; Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1641; Bastak Nature Reserve, 21 Aug. 2004, E.M. Bulakh, VLA P-968.

* *Hypoxylon perforatum* (Schwein.: Fr.) Fr.

On dead branches of *Acer* spp., Ussuriysk Nature Reserve, 23 Oct. 1956, I.A. Bunkina, VLA P-186; Big Khekhtsir Nature Reserve, 19 Oct. 1981, L.N. Vasilyeva, VLA P-175. - On dead branches of *Betula* sp., Bastak Nature Reserve, 18 Aug. 2004, L.N. Vasilyeva, VLA P-185. - On dead branches of *Carpinus cordata* Blume, *Ligustrina amurensis* Rupr. and *Salix gracilistyla* Miq., Ussuriysk Nature Reserve, 11 Aug. 1960, L.N. Vassiljeva, VLA P-184; 29 May 1958, I.A. Bunkina, VLA P-192; 8 Sept. 1963, L. Smekalina, VLA P-193. - On dead branches of *Fraxinus* spp., Ussuriysk Nature Reserve, 23 Oct. 1956, I.A. Bunkina, VLA P-181; Big Khekhtsir Nature Reserve, 14 Oct. 1981, L.N. Vasilyeva, VLA P-176; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-180. - On dead branches of *Corylus* sp., *Juglans mandshurica* Maxim. and *Ulmus japonica* (Rehd.) Sarg., Big Khekhtsir Nature Reserve, 12 Oct. 1981, L.N. Vasilyeva, VLA P-177; 22 Sept. 1982, L.N. Vasilyeva, VLA P-178; 13 Oct. 1981, L.N. Vasilyeva, VLA P-179. - On dead branches of *Malus* sp., Ussuriysk: Gornotayezhnoe, 16 Oct. 1954, A.A. Ablakatova, VLA P-182. - On dead branches of *Padus maackii* (Rupr.) Kom., Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1645.

Hypoxylon pseudoillitum Lar.N. Vassiljeva

On wood, Big Khekhtsir Nature Reserve, 16 Sept. 1981, L.N. Vasilyeva, VLA P-1842; Ussuriysk Nature Reserve, 28 Aug. 1989, L.N. Vasilyeva, VLA P-194. - This species is a member of *Nemania* but the new combination is not made yet.

Hypoxylon rubiginosum (Pers. : Fr.) Fr.

On wood, Ussuriysk Nature Reserve, 18 Aug. 1989, L.N. Vasilyeva, VLA P-978; Big Khekhtsir Nature Reserve, 15 Aug. 2004, L.N. Vasilyeva, VLA P-198.

Hypoxylon sphaerostomum (Schwein.) Sacc.

On wood, Ussuriysk Nature Reserve, 18 Sept. 1996, L.N. Vasilyeva, VLA P-979.

Hypoxylon ulmophilum Lar.N. Vassiljeva

On dead branches of *Ulmus* spp., Big Khekhtsir Nature Reserve, 14 Oct. 1981, L.N. Vasilyeva, VLA P-573; Ussuriysk Nature Reserve, 18 Sept. 1996, L.N. Vasilyeva, VLA P-566; Khanka Nature Reserve, 21 Jun. 2003, L.N. Vasilyeva, VLA P-882.

Hypoxylon vogesiacum (Pers.) Sacc.

On wood, Big Khekhtsir Nature Reserve, 16 Jun. 2000, L.N. Vasilyeva, VLA P-986.

*** *Pyrenomyxa morganii* M. Stadler, Laessøe & Lar.N. Vassiljeva

On log, Ussuriysk: Gotnotayozhnoye, 18 Sept. 2001, L.N. Vasilyeva, VLA P-942.

Rosellinia conferta Lar.N. Vassiljeva

On dead branches of *Maackia amurensis* Rupr. et Maxim., Big Khekhtsir Nature Reserve, 14 Oct. 1981, L.N. Vasilyeva, VLA P-574.

* *Rosellinia corticium* (Schwein. : Fr.) Sacc.

On dead branches of *Betula* spp., Big Khekhtsir Nature Reserve, 28 Aug. 1983, L.N. Vasilyeva, VLA P-707; Bastak Nature Reserve, 18 Aug. 2004, L.N. Vasilyeva, VLA P-1856. - On bark of deciduous trees, Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1716.

Rosellinia tienpinensis Teng

On the bark of living trunk of *Quercus mongolica* Fisch. ex Ledeb., Ussuriysk: Gotnotayozhnoye, 23 Jul. 2002, E.M. Bulakh, VLA P-946.

* *Thuemenella cubispora* (Ellis et Holw.) Boedijn

On dead branches of *Padus avium* Mill., Weihushan Nature Reserve: Northern Tiger Forest Garden, 9 Aug. 2004, L.N. Vasilyeva, VLA P-1728.

Ustulina deusta (Hoffm. : Fr.) Lind

On logs, Big Khekhtsir Nature Reserve, 19 Aug. 1983, L.N. Vasilyeva, VLA P-767; Ussuriysk Nature Reserve, 23 Aug. 1975, M.M. Nazarova, VLA P-763; Hulin: 854 State Farm, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1733; Weihushan Nature Reserve: Northern Tiger Forest Garden, 9 Aug. 2004, L.N. Vasilyeva, VLA P-1734.

*** *Xylaria primorskensis* Y.M. Ju, H.M. Hsieh, Lar.N. Vassiljeva & Akulov

On wood, Ussuriysk Nature Reserve, 28 Aug. 1989, L.N. Vasilyeva, VLA P-391; Hulin: Dongfanghong, Sept. 3, 2003, L.N. Vasilyeva, VLA P-1742; Raohe: Shengli State Farm, 6 Aug. 2004, L.N. Vasilyeva, VLA P-1743; Big Khekhtsir Nature Reserve, 15 Aug. 2004, L.N. Vasilyeva, VLA P-385; Bastak Nature Reserve, 18 Aug. 2004, L.N. Vasilyeva, VLA P-380.

Xylaria cubensis (Mont.) Fr.

On wood, Ussuriysk Nature Reserve, 21 Aug. 1989, L.N. Vasilyeva, VLA P-1920.

Xylaria hypoxylon (L.) Grev.

On wood, Big Khekhtsir Nature Reserve, 27 Aug. 1983, L.N. Vasilyeva, VLA P-1921.

Xylaria polymorpha (Pers.: Fr.) Grev.

On wood, Ussuriysk Nature Reserve, 26 Aug. 1956, I. A. Bunkina, VLA P-1901.

SORDARIALES

LASIOSPHAERIACEAE

Bombardia lignicola (Fuckel) Kirschst.

On decayed wood, Ussuriysk Nature Reserve, 28 Aug. 1989, L.N. Vasilyeva, VLA P-51.

Coniochaeta sphaeroidea Lar.N. Vassiljeva

On decayed wood, Ussuriysk Nature Reserve, 18 Sept. 1996, L.N. Vasilyeva, VLA P-53.

Lasiosphaeria hirsuta (Fr. : Fr.) Ces. & De Not.

On decayed wood, Big Khekhtsir Nature Reserve, 28 Aug. 1983, L.N. Vasilyeva, VLA P-201; Ussuriysk Nature Reserve, 23 Aug. 1989, L.N. Vasilyeva, VLA P-203; Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1656; Bastak Nature Reserve, 18 Aug. 2004, L.N. Vasilyeva, VLA P-1371.

Lasiosphaeria hispida (Tode : Fr.) Fuckel.

On decayed wood, Big Khekhtsir Nature Reserve, 18 Oct. 1981, L.N. Vasilyeva, VLA P-205; Ussuriysk Nature Reserve, 17 Aug. 1996, L.N. Vasilyeva, VLA P-204.

Lasiosphaeria ovina (Pers. : Fr.) Ces. & De Not.

On decayed wood, Ussuriysk Nature Reserve, 18 Aug. 1996, L.N. Vasilyeva, VLA P-441; Hulin: Wulindong, 4 Sept. 2003, L.N. Vasilyeva, VLA P-1658; Raohe, 7 Aug. 2004, L.N. Vasilyeva, VLA P-1657.

Lasiosphaeria strigosa (Alb. et Schwein.: Fr.) Sacc.

On wood of *Betula* sp., Ussuriysk Nature Reserve, 16 Aug. 1989, L.N. Vasilyeva, VLA P-2144.

DOTHIDEOMYCETIDAE**PSEUDOSPHAERIALES****MASSARIACEAE*****Massaria inquinans*** (Tode : Fr.) De Not.

On dead branches of *Acer* sp., Big Khekhtsir Nature Reserve, 25 Sept. 1982, L.N. Vasilyeva, VLA P-1387.

Massaria mirabilis Lar.N. Vassiljeva

On dead branches of *Morus alba* L., Ussuriysk: Gornotayozhnoye, 24 Sept. 1984, L.N. Vasilyeva, VLA P-1922.

*** *Massaria pyri*** G.H. Otth

On dead branches of *Padus avium* Mill., Ussuriysk Nature Reserve, 27 Aug. 1989, L.N. Vasilyeva, VLA P-1902; Weihushan Nature Reserve: Northern Tiger Forest Garden, 9 Aug. 2004, L.N. Vasilyeva, VLA P-1678.

DOTHIDEALES**DOTHIDEACEAE*****Botryosphaeria dothidea*** (Moug. : Fr.) Ces. & De Not.

On dead branches of *Sorbaria sorbifolia* (L.) A. Br., Big Khekhtsir Nature Reserve, 28

Aug. 1983, L.N. Vasilyeva, VLA P-1404.

Botryosphaeria obtusa (Schwein.) Shoemaker

On dead branches of *Juglans mandshurica* Maxim., Hulin, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1445.

Dothidea puccinioides (DC.) Fr.

On dead branches of *Lespedeza* sp., Big Khekhtsir Nature Reserve, 24 Sept. 1982, L.N. Vasilyeva, VLA P-1881. - On dead branches of *Phellodendron amurense* Rupr., Hulin: 854 State Farm, 2 Sept. 2003, L.N. Vasilyeva, VLA P-1557.

Sydowia polyspora (Bref. & Tavel) E. Müll.

On dead branches of *Abies nephrolepis* (Trautv.) Maxim., Big Khekhtsir Nature Reserve, 19 Oct. 1981, L.N. Vasilyeva, VLA P-1923.

MYCOSPHAERELLACEAE

Mycosphaerella punctiformis (Fr.) J. Schröt.

On dead leaves of *Tilia amurensis* Rupr., Big Khekhtsir Nature Reserve, 10 Apr. 1982, A.A. Lonchakov, VLA P-1880.

PLEOSPORALES

PLEOSPORACEAE

* ***Leptosphaeria conoidea*** (De Not.) Sacc.

On dead stems of *Artemisia* sp., Big Khekhtsir Nature Reserve, 27 Aug. 1983, L.N. Vasilyeva, VLA P-576. - On dead stems of *Aconitum* sp., Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1659.

Leptosphaeria gloeospora (Berk. & M.A. Curtis) Sacc.

On dead stems of *Prenanthes tatarinowii* Maxim., Ussuriysk Nature Reserve, 23 Aug. 1989, L.N. Vasilyeva, VLA P-575.

* ***Leptosphaeria millefolii*** (Fuckel) Niessl.

On dead herbaceous stems, Ussuriysk Nature Reserve, 12 Aug. 1989, L.N. Vasilyeva, VLA P-579; Hulin: Dongfanghong, 3 Sept. 2003, L.N. Vasilyeva, VLA P-1662; Raohe: Shengli State Farm, 6 Sept. 2003, L.N. Vasilyeva, VLA P-1665; Raohe, 7 Aug. 2004, L.N. Vasilyeva, VLA P-1664.

Leptosphaeria ogilviensis (Berk. & Broome) Ces. & De Not.

On dead stems of *Cirsium* sp., Fuyuan, 4 Aug. 2004, L.N. Vasilyeva, VLA P-1666.

Ophiobolus rubellus (Pers. : Fr.) Sacc.

On dead stems of *Adenocaulon himalaicus* Edgew., Ussuriysk Nature Reserve, 12 Aug.