

NEW AND RARE MACROMYCETES TO BULGARIA

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ABSTRACT. Chorological data on thirty six macromycetous taxa are reported. Twenty one taxa (20 species and 1 form) are new to Bulgaria. Fifteen species are rare for the country. Six species are of high conservation value included in the Red List of endangered macromycetes in Bulgaria. The predominant part of macromycetes belongs to the class Basidiomycetes (36 taxa), one species belongs to the class Ascomycetes.

KEY WORDS: macromycetes, new taxa, chorological data.

INTRODUCTION

The present paper includes chorological data on twenty one new and fifteen rare macromycetous taxa to Bulgaria. Twenty species and one form belong to the class Basidiomycetes, one species to the class Ascomycetes. Most of the species are rare and endangered in Bulgaria. Six species of them are of high conservation value included in the Red List of endangered macromycetes in Bulgaria (in preparation).

MATERIAL AND METHODS

The macromycetes were registered during the period 1995-2004 in 7 floristic regions of the country: Stara Planina Mts, Znepole region, Vitosha region, Rila Mts, Sredna Gora Mts, Rhodopi Mts and Tracian plain. Studied specimens are kept in the Mycological collection of the Institute of Botany, Bulgarian Academy of Sciences (SOMF).

Macromycete nomenclature is according to Kirk & al. (2001).

The macromycetes with conservation value are designed in the list with CV.

New macromycetous taxa to Bulgaria

Ascomycetes

Pezizales

Pezizaceae

***Hydnobolites cerebriformis* Tul. & Tul.**

In soil among mosses, in a community of *Pinus sylvestris*, Central Rhodopi Mts, above Tsar Kaloyan village, 10 Nov 2004, G. Stoichev (GS) (SOMF 25 746).

Basidiomycetes

Agaricales

Bolbitiaceae

***Hebeloma anthracophilum* Maire**

On burnt ground, Central Rhodopi Mts, above Dedovo village, 23 Sep 1995, GS (SOMF 25 780); on burnt ground among mosses, near the Dyavolsko Garlo cave above Trigrad town, 18 Jun 2003, M. Gyosheva (MG)(SOMF 25 747).

***Naucoria alnetorum* (R. Maire) Kuhn. & Romagn.**

On soil among mosses under *Alnus glutinosa*, Vitosha Mt, above Kladnitsa village, 26 Sep 2004, GS (SOMF 25 748).

Cortinariaceae

***Crepidotus lundellii* Pilát**

On dead coniferous twig, in a community of *Pinus sylvestris*, Central Rhodopi Mts, above Tsar Kaloyan village, 26 Nov 2004, GS (SOMF 25 749).

***Galerina triscopa* (Fr.) Kühn.**

Among mosses, in a community of *Pinus sylvestris* and *Betula pendula*, Sredna Gora Proper, around Banya village, 9 Dec 2004, GS (SOMF 25 750).

***Inocybe margaritospora* (Berk) Sacc.**

On soil, in a community of *Fagus sylvatica*, Central Rhodopi Mts, above Bachkovo monastery, 7 Dec 1998, GS (SOMF 25 751).

Hydnangiaceae

***Laccaria montana* Singer**

On soil among grasses, in a community of *Dryas octopetala*, Rila Mts, below the peak Haramiyata, 24 Aug 1999, MG (SOMF 25 752).

Tricholomataceae

***Clitocybe alexandri* (Gill.) Konr.**

On soil, in a community of *Picea abies* and *Fagus sylvatica*, Rila Mts, Borovets locality, 5 Oct 2004, MG (SOMF 25 753).

***Clitocybe costata* Kühner & Romagn.**

On soil in a community of *Picea abies* and *Pinus sylvestris*, Rila Mts, Borovets locality, 4 Nov 2000, MG (SOMF 25 754).

***Collybia prolixa* (Hornem. : Fr.) Gill.**

In coniferous litter, in a community of Picea abies and Pinus peuce, Vitosha Mt, around Aleko chalet, 12 Jul 2001, MG (SOMF 25 755).

***Fayodia leucophylla* (Fr.) M. Lge & Sigreensen**

On sandy soil among mosses and grasses, Rila Mts, above Malyovitsa chalet, 6 Sep 2003, MG (SOMF 25 756)

Mycena pura (Pers. : Fr.) P. Kumm. f. *alba* (Gill.) Kühn.

On deciduous litter, in a community of *Robinia pseudoacacia*, Tracian plain, around Plovdiv town, 9 Oct 2004, GS (SOMF 25 757).

Riparites metrodii Huijsman

On soil, in a community of *Fagus sylvatica*, Konyavska Planina Mt, above Momin Kladenets chalet, above Izvor village (Znepole region), 20 Oct 1999, MG (SOMF 25 781)

Riparites serotina Einhellinger

On soil, in open grassy place, Konyavska Planina Mt, above Zhedna village (Znepole region), 4 Jun 2001, MG (SOMF 25 758).

Tricholoma hordum (Fr. : Fr.) Quéf.

On soil, in a community of *Fagus sylvatica* and *Abies alba*, Western Rhodopi Mts, Tsigov Chark locality, 21 Jun 2002, MG (SOMF 25 759).

Boletales

Melanogastraceae

Melanogaster ambiguus (Vitt.) Tul.

In sandy soil, in a community of *Pinus sylvestris*, Vitosha Mt, Byalata Voda locality, 30 May 2001, MG (SOMF 25 760).

Polyporales

Albatrellaceae

Albatrellus subrubescens (Murr.) Pouzar

On soil, in a community of *Fagus sylvatica* and *Pinus sylvestris*, Central Rhodopi Mts, above Ravnishta chalet, 16 Sep 2002, GS (SOMF 25 761)

Atheliaceae

Irpicond pendulus (Alb. & Schw. : Fr.) Pouzar (*Radulum pendulinum* Nikol., *Irpex pendulus* Fr.)

On dead coniferous twig, in a community of *Pinus sylvestris*, Tracian plain, around Galabovo village, 26 Dec 2004, GS (SOMF 25 762)

Thelephorales

Bankeraceae

Hydnellum concrescens (Pers. : Fr.) Banker (*H. zonatus* (Fr.) P. Karst.)

On rocky ground, in an oak forest, Eastern Rhodopi Mts, around Domishte village, 27 Oct 2000, MG (SOMF 25 763).

Phellodon niger (Fr. : Fr.) P. Karst.

On sandy soil among mosses, in a community of *Pinus sylvestris*, Western Rhodopi Mts, above Dospat town, 7 Jun 2003, MG (SOMF 25 764).

Tremellales

Exidiaceae

Protomerulius caryae (Swainn.) Ryvardeen

On dead fir trunk, in a community of *Picea abies* and *Abies alba*, Central Stara Planina Mts, above Vezhen chalet, 18 Oct 1997, GS (SOMF 25 765).

Rare macromycetes to Bulgaria

Basidiomycetes

Agaricales

Agaricaceae

Leucocoprinus birnbaumii (Corda) Singer (*L. luteus* (Godfrin) Lacq.)

In flower pot, 7 Jul 2002, S. Tsoneva (SOMF 25 766).

The species was reported only once for Bulgaria from the Lyulin Mt-Vitoshka region (Gyosheva 2000).

Cortinariaceae

Crepidotus epibryus (Fr. : Fr.) Quéf.

On dead mosses and gramineous plants, in open grassy place, Sredna Gora Proper, around Zelenikovo village, 9 Nov 2004, GS (SOMF 25 767).

The species was reported only once for Bulgaria from Lozenska Planina Mt – Western Sredna Gora (Hinkova & Fakirova 1970).

Marasmiaceae

Macrocyttidia cucumis (Pers. : Fr.) Joss.

On soil among grasses, in open grassy place, Rila Mts, Borovets locality, 18 Oct 2004, MG (SOMF 25 768).

The species is known from Eastern Stara Planina Mts and from Lozenska Planina Mt – Western Sredna Gora (SOMF).

Strophariaceae

Stropharia albonitens (Fr.) P. Karst.

On soil, in open grassy place, Lozenska Planina Mt, above the Kokalyansko Hanche locality (Western Sredna Gora), 21 May 1999, MG (SOMF 25 769).

The species is known from Central Rhodopes Mts (SOMF).

Tricholomataceae

Crinipellis mauretanicus Maire

On plant remains, in grassy place, Tracian plain, Lauta locality around Plovdiv town, 10 Jun 2004, GS (SOMF 25 770).

The species was reported only once for Bulgaria from the same locality (Hinkova & Stoichev 1983).

Omphalina luteovitellina (Pil. & Nannf.) M. Lange (*O. flava* Fr.)

Among mosses and grasses in open grassy place, Rila Mts, above Malyovitsa chalet, 2 Sep 2002, MG (SOMF 25 771).

The species was reported by Barsakov (1933) from Vitosha Mt.

Pleurocybella porrigens (Pers. : Fr.) Singer

On rotting stump, in a community of *Picea abies* and *Pinus sylvestris*, Rila Mts, Borovets locality, 17 Oct 2000, MG (SOMF 25 772).

The species was reported only once for Bulgaria from the Western Rhodopi Mts (Barsakov 1931).

Rickenella swartzii (Fr. : Fr.) Kuyper (*R. setipes* (Fr.) Raith.)

Among mosses, in open grassy place, Rila Mts, above Malyovitsa chalet, 12 Sep 2002, MG (SOMF 25 774).

The species was reported by Vanev & Reid (1986) from Pirin Mts.

Boletales

Gastrosporiaceae

CV *Gastrosporium simplex* Mattir.

In soil among grasses, in a community of *Quercus cerris*, Lozenska Planina Mt, above Kakalyansko Hanche locality (Western Sredna Gora Mts), 25 Jul 2002, MG (SOMF 25 776)

The species is rare in Europe. In Bulgaria it is known from the same locality (Kreisel 1959), from Southern Black Sea coast (Kuthan & Kotlaba 1988) and from Tracian plain (SOMF).

Dacrymycetales

Dacrymycetaceae

CV *Ditiola radicata* (Alb. & Schw.) Fr.

On dead coniferous twigs in a community of *Picea abies* and *Pinus sylvestris*, Western Rhodopi Mts, Longourli locality, 17 Jul 2003, MG (SOMF 25 575).

The species was reported only once for Bulgaria from Vitosha Mt (Hinkova 1955).

Hymenochaetales

Hymenochaetaceae

Onnia tomentosa (Fr.) P. Karst.

On buried wood in soil, in a community of *Picea abies* and *Pinus sylvestris*, Rila Mts, Panichishte locality, 5 Sep 1997, MG (SOMF 25 778)

The species was reported from Rila Mts – Parangalitsa Reserve (Rosnev & Stoichev 1985) and from Pirin Mts (Dörfelt & Müsch 1977).

Phallales

Gomphaceae

CV *Lentaria byssiseda* (Pers. : Fr.) Corner (*Clavaria byssiseda* Pers. : Fr.)

On fallen fir twigs in a community of *Fagus sylvatica* and *Abies alba*, Western Rhodopi Mts, Tsigov Chark locality, 10 Sep 2002, MG (SOMF 25 577).

The species was reported from Vitosha Mt (Barsakov 1926) and from Western Stara Planina Mts (Vanev & Reid 1986).

Russulales

Hericiaceae

CV *Hericum flagellum* (Scop.) Pers. (*H. alpestre* Pers.)

On spruce stump in a community of *Picea abies* and *Abies alba*, Rila Mts, below Malyovitsa chalet, 3 Sep 1998, MG (SOMF 25 636).

The species is known from Rila Mts – around Rila monastery (Stoichev & Dimcheva 1982) and from Pirin Mts (SOMF).

Thelephorales

Bankeraceae

CV *Hydnellum aurantiacum* (Batsch : Fr.) P. Karst.

On soil, in a community of *Picea abies*, Western Rhodopi Mts, Beglika Reserve, 3 Aug 2002, MG (SOMF 25 573).

The species was reported from Rila Mts (Barsakov 1928) Vitosha Mt (Barsakov 1933) and Western Rhodopi Mts (Hinkova & al. 1979).

Phellodon melaleucus (Fr.: Fr.) P. Karst.

On soil, in a community of *Picea abies*, Western Rhodopi Mts, Beglika Reserve, 4 Aug 2002, MG (SOMF 25 779).

The species was reported only once for Bulgaria from the Vitosha Mt (Barsakov 1933).

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