

THE PROVISORY RED LIST OF ENDANGERED MACROMYCETS OF MONTENEGRO

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Montenegro is still poorly mycological investigated to be possible make the compilation of its Red list of threatened macromycetes. For difference of European countries with long term mycological tradition, developed institutions and important investment in study and mapping of fungi, we are still in pioneering mission when at least step done, often with enormous effort, can means as a success. Therefore, after a decade of systematical investigations and monitoring some of the valuable localities, it could be possible to prepare this preliminary list which indicates that this selection of some species is out of importance for preservation mycodiversity of Montenegro. It is compiled on the basis of the published papers up to now, as the unpublished data which are results of our research work carried out in the frame of the project *Fungi of Montenegro*. More then 900 species of macromycetes have been reported from the territory of the Montenegro. In consideration of insufficiently of research work of this area, IUSN category system could not have been applied, own categorization adopted to domestic conditions has been used. It includes:

- the species of international importance (the species that have been proposed by ECCF for Bern's convention and mapping, as the species from European Red Lists),
- specially rare or rare species in Montenegro,
- the species bound to types of endangered habitats,
- the species which populations are decreased due to excessive exploration.

THE PROVISORY RED LIST OF ENDANGERED MACROMYCETS OF MONTENEGRO

The species which occupy European Red List Ing (1993) groups A, B, C, D.
The species which are in Lizon's List (1995) *
Specially rare or rare species in Montenegro MN

1. *Agrocybe aegerita* (V. Brig.) Quél. *
2. *Albatrellus cristatus* (Schaeffer) Kotlaba et Pouzar MN
3. *Albatrellus ovinus* (Schaeffer) Kotlaba et Pouzar D
4. *Albatrellus pes-caprae* (Pers.) Pouz. *D
5. *Aleurodiscus amorphus* Rabenh. *
6. *Aleurodiscus disciformis* (Vill.) Pat. *B
7. *Amanita caesarea* (Scopoli) Pers. *D
8. *Amanita decipiens* (Trimbach) Jacquetant MN
9. *Amanita franchettii* (Boudier) Fayod C
10. *Amanita ovoidea* (Bull.) Link MN
11. *Amanita solitaria* (Bull.) *
12. *Amanita verna* (Fr.) *
13. *Amanita vittadinii* Moretti MN

14. *Astraeus hygrometricus* (Pers.) Morgan *C
15. *Bolbitius variicolor* G. F. Atk. MN
16. *Boletus aereus* Bull. *C
17. *Boletus albidus* Roques *C
18. *Boletus appendiculatus* Schaeffer *D
19. *Boletus fechtneri* Velenovsky *B
20. *Boletus impolitus* Fr. *B
21. *Boletus lupinus* Fr. *
22. *Boletus queletii* Schulzer B
23. *Boletus regius* Krombh. A
24. *Boletus satanas* Lenz. *A
25. *Boletus subappendiculatus* Dermek, Lazebnicek et Veselsky MN
26. *Bovista paludosa* Léveillé A
27. *Caloscypha fulgens* (Pers.) Boudier C
28. *Cantharellus cinereus* (Pers.) Fr. *C
29. *Cantharellus lutescens* Fr.
30. *Catathelasma imperiale* (Fr.) Singer *B
31. *Chalciporus pseudorubinus* (Thirring) Pilát & Dermek MN
32. *Clavariadelphus pistillaris* (L.) Donk *
33. *Clavariadelphus truncatus* (Quél.) Donk *D
34. *Coltricia cinnamomea* (Jacquin) Murrill *C
35. *Collybia hariolorum* (Bull.) Quél. *
36. *Cortinarius bulliardi* (Pers.) Fr. *B
37. *Cortinarius orellanus* (Fr.) Fr. C
38. *Cortinarius praestans* (Cordier) Gillet (Cord.) Gill. C
39. *Craterellus cornucopioides* (L.) Pers. *
40. *Cudonia circinans* (Pers. : Fr.) Fr. C
41. *Cyathus stercoreus* (Schweiniz) De Toni *
42. *Dichomitus campestris* (Quél.) Doman. et Orlicz C
43. *Ditiola radicata* (Alb. & Schwein.) Fr. *
44. *Ganoderma resinaceum* Boud. C
45. *Geastrum fornicatus* (Hudson) Hooker A
46. *Geastrum minimum* Schweiniz C
47. *Geastrum nanum* Pers. *B
48. *Geastrum quadrifidum* DC. *C
49. *Geastrum sessile* (Sowerby) Pouzar C
50. *Geastrum striatum* DC. *
51. *Geastrum triplex* Jungh. *D
52. *Geoglossum barlae* Boudier *
53. *Geoglossum umbratile* Sacc. C
54. *Gloeophyllum odoratum* (Wulfen) Imazeki *
55. *Gomphus clavatus* (Pers.) Gray *A
56. *Guepiniopsis buccina* (Pers.) L. L. Kenn. *
57. *Gyrodon lividus* (Bull.) Fr. *
58. *Gyromitra gigas* (Krombh.) Cooke *C
59. *Gyromitra macknightii* Harmaja MN

60. *Gyromytra parma* (J. Breitenb. & Maas Geest.) Kotl. & Pouz. MN
61. *Gyroporus castaneus* (Bull.) Qué! MN
62. *Gyroporus cyanescens* (Bull.) Qué! MN
63. *Hericium clathroides* (Pall.) Pers. *C
64. *Hericium* (Scop.) Gray MN
65. *Hydnum geogenium* Fr. *
66. *Hydnellum aurantiacum* (Alb. & Schwein.) P. Karst. *B
67. *Hydnellum caeruleum* (Hornem.) P. Karst. *B
68. *Hydnellum ferrugineum* (Fr.) P. Karst. *A
69. *Hydnum rufescens* Fr. : Fr. non Schaeffer *
70. *Hygrophorus eburneus* (Bull.) Fr. *
71. *Hygrophorus gliocyclus* Fr. *C
72. *Hygrophorus hypothejus* (Fr. : Fr.) Fr. C
73. *Hygrophorus intermedius* Pass. *C
74. *Hygrophorus marzuolus* (Fr.) Bres. D
75. *Hygrophorus olivaceoalbus* (Fr.) Fr. *
76. *Hygrophorus poetarum* R. Heim D
77. *Hygrophorus pudorinus* (Fr. : Fr.) Fr. B
78. *Hygrophorus puniceus* (Fr.) C
79. *Hygrophorus russula* (Schaeffer : Fr.) Quélet *B
80. *Hygrocybe ovina* (Bull.) Kühner B
81. *Hygrocybe spadicea* (Scop.) P. Karst. *A
82. *Inotus hispidus* (Bolton) P. Karsten C
83. *Lactarius acris* (Bolton) Gray *C
84. *Lactarius fuliginosus* Fr. *
85. *Lactarius mairei* Malençon *B
86. *Lactarius volemus* Fr. *
87. *Lentinus adhaerens* (Alb. & Schw.) Fr. *C
88. *Lenzites warnieri* Durieu et Mont. *
89. *Lepiota grangei* (Eyre) Kühner C
90. *Leptopodia atra* (J. Kön.) Boud. # BERN
91. *Limacella guttata* (Pers.) Konrad & Maubl. C
92. *Lycoperdon mammiforme* Pers. *C
93. *Morchella conica* Pers. MN
94. *Morchella elata* Fr. MN
95. *Morchella esculenta* (L.) Pers. MN
96. *Mutinus caninus* (Hudson) Fr. C
97. *Mycenastrum corium* Berk. *
98. *Omphalia oniscus* (Fr.) Gillet *
99. *Omphalotus olearius* (DC.) Singer C
100. *Onnia tomentosa* (Fr.) Karst. B
101. *Onygena equina* Pers. *C
102. *Otidea concinna* (Pers.) Sacc. C
103. *Panellus ringens* (Fr.) Romagn. *
104. *Peziza domiciliana* Cooke *
105. *Phellinus tremulae* (Bond.) Bond. & Borisov. D

106. *Phellodon niger* Karsten *B
107. *Phylloporus rhodoxanthus* (Schwein.) Bres. *A
108. *Pisolithus arrhizus* (Pers.) Rauschert *C
109. *Pleurotus eryngii* (DC. : Fr.) Quél. *
110. *Polyporus frondosus* (Dickson : Fr.) Fr. C
111. *Polyporus umbellatus* (Pers.) Fr. B
112. *Porphyrellus pseudoscaber* (Secr.) Sing. C
113. *Pycnoporus cinnabarinus* (Jacq. , Fr.) P. Karst. *
114. *Ramaria botrytis* (Pers.) Ricken *C
115. *Ramaria formosa* (Pers.) Fr. C
116. *Rhizopogon vulgaris* (Vitt.) M. Lange *
117. *Rozites caperatus* (Pers.) P. Karsten *
118. *Russula aurata* (With.) Fr. MN
119. *Russula olivacea* (Schff. ex Secr.) Fr. *
120. *Sarcodon imbricatus* (L.) P. Karst. *C
121. *Sarcodon joeides* (Pass.) Bat. * D
122. *Sarcodon leucopus* (Pers.) Maas. G. & Nannf. C
123. *Sarcodon scabrosus* (Fr.) Quél. *B
124. *Sarcosphaera coronaria* (Jacq.) Boud. #
125. *Sparassis laminosa* Fr. *C
126. *Strobilomyces floccopus* (Vahl) P. Karst. *#C
127. *Trichoglossum hirsutum* (Pers.) Boud. *C
128. *Tricholoma acerbum* (Bull.) Vent. *B
129. *Tricholoma caligatum* (Viviani) Ricken *
130. *Tricholoma sejunctum* (Sowerby) Quél. *C
131. *Tricholoma vaccinum* (Pers.) Fr. *
132. *Tulostoma brumale* Pers. C
133. *Verpa conica* (O.F. Müll.) Sw. C
134. *Volvariella bombycina* (Schaeff.) Sing. C

Branislav and Olgica Peric, November 2005