

**Küffer, N., Lovas, P. S. & Senn-Irlet, B.** 2004. Diversity of wood-inhabiting fungi in natural beech forests in Transcarpathia (Ukraine): a preliminary survey. – *Mycologia Balcanica* 1: 129-134.

**Abstract.** We found 131 species of wood-inhabiting fungi in two different beech forest types in the Carpathian Mountains of Ukraine. The corticioid and poroid aphylophorales (Basidiomycetes) showed a remarkably high species richness. Among them species highly depending on large amounts of dead wood, especially logs for growth and fruiting, such as *Dentipellis fragilis*. The woodruff beech forests (*Galio-Fagenion*) harbour a greater number of fungal species than the fir beech forests (*Abieti-Fagenion*). These beech forests in the Carpathian Mountains provide an interesting opportunity to study the beech forests in Europe in their natural appearance, not or hardly influenced by human activity.

**Key words:** beech forest, Carpathian Mountains, species richness, Ukraine, wood-inhabiting fungi