

Teljes hivatkozás: Ódor, P. et al. (2006): Diversity of dead wood inhabiting fungi and bryophytes in semi-natural beech forests in Europe. *Biological Conservation* 131: 58-71.

Rövid hivatkozás: Ódor et al. (2006)

Első szerző: Ódor Péter

Év: 2006

Összefoglalás:

Saproxyllic organisms are among the most threatened species in Europe and constitute a major conservation problem because they depend on the most important forestry product - dead wood. Diversity of fungal and bryophyte communities occurring on dead beech trees was analyzed in five European countries (Slovenia, Hungary, The Netherlands, Belgium and Denmark) considering tree level species richness (TLSR), country level species richness (CLSR), frequency distributions of species, occurrence of threatened species and relations between TLSR and decay stage, tree size and countries. Altogether 1009 trees were inventoried in 19 beech dominated forest reserves. The number of fungi in the full dataset was approximately three times larger (456 versus 161 species) and the proportion of low frequent species was higher than among bryophytes. The species richness of bryophytes and fungi was significantly different among countries considering both TLSR and CLSR. In addition the diversity patterns deviated considerably between the two groups of organisms. Slovenian sites appeared to be biodiversity hotspots for bryophytes characterized by high TLSR and CLSR and a high fraction of threatened species. Hungarian sites had somewhat lower bryophyte diversity, while the Atlantic region had deteriorated assemblages. Fungal species richness was very high in Denmark, but the Hungarian and Slovenian sites were richer in threatened and low frequency species. Tree size was better able to explain variation in TLSR in both organism groups than decay stage. TLSR was found to vary significantly between countries but the difference was most considerable in the case of bryophytes. The diversity patterns of both organism groups along the investigated geographical gradient appear to be influenced by both climatic and management related factors (forest history, dead wood availability and continuity, habitat fragmentation). There is no doubt that an increase in the abundance of dead wood in European beech forests will benefit diversity of saproxyllic fungi and bryophytes, especially if a continuous presence of large diameter logs are secured within individual stands.

biodiverzitás: gomba, zuzmó

biodiverzitás: moha

holtfa

módszertan: elemzés, statisztika

Megjegyzések:

A TELJES HIVATKOZÁS: Ódor, P., J. Heilmann-Clausen, M. Christensen, E. Aude, K.W. van Dort, A. Piltaver, I. Siller, M.T. Veerkamp, R. Walley, T. Standovár, A.F.M. van Hees, J. Kosec, N. Matočec, H. Kraigher and T. Grebenc (2006): Diversity of dead wood inhabiting fungi and bryophytes in semi-natural beech forests in Europe. *Biological Conservation* 131:58-71.

Tartalom:

1. Introduction
2. Materials and methods
 - 2.1. Study sites
 - 2.2. Dead tree selection and description
 - 2.3. Inventory of bryophytes and fungi

2.4. Data analysis

3. Results

3.1. Species richness of fungi

3.2. Species richness of bryophytes

3.3. Threatened species of fungi

3.4. Threatened species of bryophytes

4. Discussion

4.1. Effect of tree size and decay on TLSR in different countries

4.2. Bryophytes and fungi - different ecology, different diversity patterns

4.3. Diversity of bryophytes and fungi in different regions

Acknowledgements

References

Fungi, Bryophytes, Coarse woody debris, Dead wood, Diversity, Fagus sylvatica
gomba, moha, holtfa, diverzitás, bükk

Címszavazva - VA

Kiadó: Elsevier

Folyóirat: Biological Conservation

Lelőhely: ER Archívum (2006/P-010/1, 2006/P-010/2)

Típus: tudományos publikáció, konferencia szakcikk (teljes)

Erdőrezervátumok: [Kékes Erdőrezervátum](#)

Csatolt dokumentum:  [Odor_etal_BiolCons_2006.pdf](#)

Katalógusba vette: HF, Gulyás Györgyi

Katalógusbavétel időpontja: 2009-11-30

Forrás URL (modified on 2015-02-18 10:32):<https://www.erdorezervatum.hu/node/332>