## Peters, R.(1997): Beech Forests; Kluwer Academic Publishers; Dordrecht, Boston, London

Teljes hivatkozás

Peters, Rob (1997): Beech Forests; Kluwer Academic Publishers; Dordrecht,

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Rövid hivatkozás

Peters (1997)

Első szerző

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Összefoglalás

Among the sampled beech forests, geographically and climatically determined differences in codominant overstory tree species and in forst structuremay require different forest dynamics for maintenance of beech dominance. This chapter focused on forest-canopy dynamics which affect light climate for juvenile beeches in the understory and growing space for mature beeches in the forest canopy. Strong growth-rate increases in the sterm diameter seem to reflect change in light climate and growing space. Therefore, tree-ring chronologies can be used to describe canopy dynamics.

An index for growth-rate increase (GI) was proposed to quantify canopy dynamics, and to compate these among the sampled beech forests. This index is little affected by drry or cool summers, but strongly by storm such as typhoons, hurricanes or tornados. Per sampled forest, the annual average GI showed peacs in one or two years after a major storm impacted the forest. This annual average GI could be used to reconstruct canopy dynamics over a long time interval, about 100 years. Cumulative distribution of the annual average GI could be used to distinguish between the more dynamic American and more stable Asian sampled forests. In Asia, the annual average GI showed that AS2 was more dynamic than AS1, and analysis of the wind climate showed that, on windy days, AS2 had higher wind speeds than AS1. This support the use of GI to compare wind-related canopy dynamics.

GI parameters were calculated to show the level of canopy dynamics per stand, or heterogeneity in dynamics within a forest. In general, the parameters showed that the North American sampled forests were more dynamic than the European sampled forests, which were more dynamic than the Turkish and Asian sampled forests.

Canopy dynamics could be related to canopy dominance using the GI parameters. In more dynamic sampled forests, like AM+, more light demanding overstory species could reach the forest canopy. In the more stable Asian sampled forests more light demanding overstory species, and often even beech could rarely establish themselves. The strukture of the Asian sampled forests is unfavorable for beech regeneration (Chapter 6), and the events that can change this structure seem rare.

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