

FEASIBILITY OF CONTINUOUS-COVER FORESTRY (CCF) IN PEATLAND FORESTS IN FINLAND

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Even-aged management, in which a nearly coeval cohort of trees is grown and eventually harvested by clear-cut, has been the only management option practiced on drained peatlands. However, due to the detrimental impacts on several ecosystem services provided by peatlands, demand for alternative management options has increased. Continuous-cover forestry (CCF) could be a promising management alternative that could decrease both the environmental and economic costs, and improve the social acceptance of forestry on peatlands.

In an on-going research project, we are studying the impacts of different partial felling treatments aiming at CCF on hydrological parameters, greenhouse gas emissions, carbon balance, harvest outcomes and tree regeneration in 12 experimental sites, of which six are on Norway spruce dominated nutrient-rich sites and six on Scots pine dominated nutrient-poor sites in drained peatlands in Finland. First results of the immediate effects of CCF-treatments will be presented.