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Forest science for people and societal
challenges

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Book of Abstracts

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2nd SESSION

ORAL PRESENTATIONS

ilex, and *N. oleander* were selected as species with notable element accumulation patterns. Among the leaf traits analyzed, only the leaf dissection index (LDI) showed a negative correlation with PM accumulation. Linear regression analysis indicated that *L. nobilis* and *O. europaea* were suitable for reflecting air pollution based on PM10 values. Positive regression was observed between PM2.5 and PM0.2 for *L. nobilis*, *O. europaea*, *N. oleander*, *M. grandiflora*, and *P. laurocerasus*. In summary, the study identified species with higher PM accumulation capacity and assessed the seasonal element accumulation patterns in different territory types. Leaf traits and linear regression analysis provided insights into the species' interactions with particulate matter and their potential for monitoring air pollution.

Keywords

air pollution, mitigation, plant species, leaf traits, monitoring

The results of 20 years of forest condition monitoring as a milestone for future improvement and harmonization

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Abstract

Forest condition monitoring under the International Co-operative Programme on Assessment and Monitoring of Air Pollution Effects on Forests (ICP Forests) is one of the world's largest biomonitoring networks. In this paper, we present the results of 20 years of forest condition monitoring in Serbia. As methodological background, we use Manual for visual assessment of crown condition and damaging agents. Assessment was performed on 130 sample plots Level I in 16 x 16 km grid and 4 x 4 km. Results present crown defoliation and tree damage from biotic and abiotic agents. Defoliation is analyzed and compared by tree species, age classes, elevation, and forest management practice. Influence on forest conditions was tested relative to (extreme) meteorological parameters. Detail analysis of biotic and abiotic damages was presented. The results have provided a chronological analysis of the crown condition and determination of main stressors.

Keywords

forest vitality, defoliation, ICP Forests, biotic/abiotic agents, stressors

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