



Dynamics of Soil N Cycling and Its Response to Vegetation

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Message from the Guest Editor

Soil nitrogen cycling plays an extremely important role in the development and functioning of forest ecosystems. These are largely determined by the regional typological features of forest landscapes, the current composition and age of the stand, the seasonal dynamics of microclimatic conditions, as well as natural and anthropogenic dynamics of the vegetation cover. An understanding of the regional and typological patterns of the modern spatial and temporal variability of soil N cycling as well as the processes of nitrogen compound transformation and migration allows us to adapt, verify and localize the known framework models of nitrogen behavior for soils of specific variants of the studied forest ecosystems.

Short-term dynamics of soil N cycling;

Interactions between vegetation fluctuations and soil N cycling;

Windthrow successions and soil N cycling;

Reforestation impact on soil N cycling;

Dynamics of soil N cycling in case of urban forests;

Forest fertilizing impact on soil N cycling;

Recreational impact on soil N cycling in the urban and suburban forests;

Dynamics of soil N cycling in case of agricultural forest belts;

Dynamics of soil N cycling in case of industrial forests.





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