



## **Interdisciplinary research at the SMEAR Estonia station**

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Interdisciplinary research on ecosystem-atmosphere relations has been an issue since many years in Estonia. Since 2008, these activities have been intensified and led to the build up of a SMEAR (Station for Measuring Ecosystem-Atmosphere Relations) type station in Estonia. It is part of the Estonian Environmental Observatory, a delocalized research infrastructure that is operated by several Estonian universities and research institutions. It's core is located in the experimental forestry district in Järvselja where a major portion of the ecosystem and atmospheric research activities take place.

Here, we present an overview of the current state of research which especially takes care of the hemiboreal forest ecosystem. Continuous build up of comprehensive measurements at diverse sites has led to a network of stations over Estonia. It's location in the transition zone between boreal and temperate forest ecosystems allows for new and updated hypothesis regarding fluxes of energy and matter in a globally changing climate system.