Services

The unit's scientific laboratory produces analysis data on processes related to the functioning of the forest ecosystem, using e.g. the methods of molecular biology.

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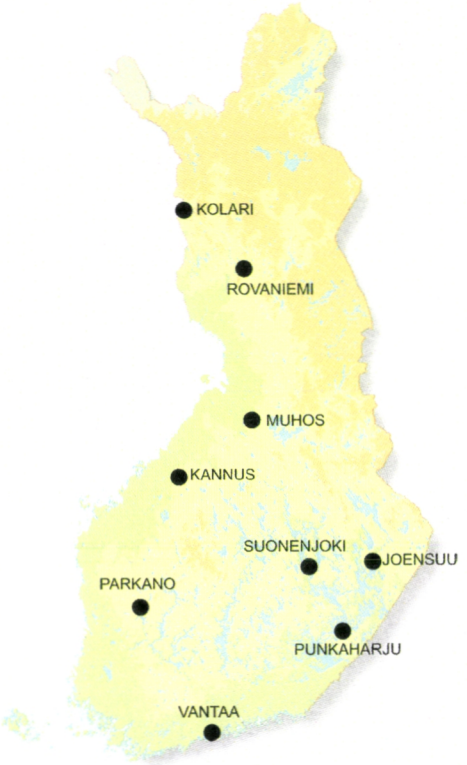

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METLA

Parkano Research Unit

Know-how on forests in Western Finland

Parkano is the location of Metla's first regional research unit, which was set up in 1961. Our particular focus is on the research challenges of Western Finland's forestry and timber industries.

The Parkano research unit is a regionally influential, internationally networked scientific community whose aim is to produce solutions in cooperation with clients for the future challenges of the forestry industry.

Parkano provides the leadership for the peatland research programme and – currently – several research projects, and is also involved in research projects led by other Metla research units.

Parkano hosts Metla's professorial chair of peatland forestry.

Forest-based entrepreneurship and business activity

Methods for sustainable production and use of peatland forests

This field of research produces information on the production and regeneration of peatland forests, and on the environmental impact of these measures, for the use of players in the forestry sector. Research is also carried out in moorlands on topics such as the usability of seeding in forest regeneration and the production of birch for various purposes.

Forest work and entrepreneurship research and timber supply chain management

This field of research focuses on questions of specific interest to Western Finland: the utilisation of peatland forests and the use of bioenergy, plus research themes related to forest entrepreneurship, work organisation and supply chain management.

Utilising bioactive compounds from forests

The focus of this research is on the commercial utilisation of potential new compounds available from forests in the field of health and bioscience. We place special emphasis on creating networks aimed at the utilisation of various testing methods in the chains of activities related to the project "from forest to product".

Social significance of forests

Environmental impacts of peatland use

To support decision-making, information is produced on the climatic impacts of changes in land use in peatlands, particularly for the development of methods for Finland's greenhouse gas reporting. The most important impacts relate to the utilisation of biomasses and other organic masses from peatlands in energy production, and to the subsequent use of the areas.

Structure and functioning of the forest ecosystem

Forest and peatland ecosystems in a changing climate

This field of research produces information on the functional responses of forest and peatland ecosystems, in particular to changes in hydrology, including the effects of global warming. Two important environmental questions are linked to changes in peatland forests: the loading of waterways and the production of greenhouse gases that accelerate global warming.

Forestry and forest environment data banks

Long-term monitoring of the forest ecosystem

This field of research produces and disseminates that information on the impact of human activity and natural factors on the structure and functioning of forest ecosystems which is required by international reporting obligations.