



SESSION DESCRIPTION

ID: B3

Semi natural forests and forest plantations: ecosystem services and trade-offs in the face of land use and climate change

Hosts:

	Title	Name	Organisation	E-mail
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Abstract:

Conserving and enhancing ecosystem function and services is crucial for sustainable development at a local, national and global level. There is international scientific consensus that, in order to achieve the relevant Sustainable Development Goals (SDGs), it is necessary to integrate forest ecosystem services into spatially explicit decision-making, and to consider trade-offs. This would ensure that forest resources and the ecosystem services that flow from them, remain available and well managed, thus enhancing human well-being and biodiversity. Knowledge of the spatial distribution and entity of forests and their condition is a necessary first step to address the need for resilient and sustainable forested landscapes and their services. It is also important to better understand trade-offs between benefits and potential disservices, for example when forest plantations are involved. A range of ecosystem services are related to forest characteristics, such as community and species distribution, plant traits, biomass and carbon storage, prevention of erosion and diffuse pollution. Earth Observation technology is becoming a fundamental tool for mapping and monitoring forest ecosystems and can be integrated with modelling and scenario approaches to inform on a range of ecosystem services and on their potential future trends, especially in the light of projected climatic change. We welcome contributions studying both seminatural forests and forest plantations, their spatial distribution and their trade-offs. The following types of contributions are particularly welcome: contributions focussing on cultural ecosystem services; those making use of new technology to describe and monitor the present state; contributions making use of models and scenarios to project potential shifts in the future provision of services.

Goals and objectives of the session:

The goal of the session is to advance the assessment of ecosystem services and disservices provided by seminatural forests and forest plantations and their trade-offs, especially in the face of land use and climate change.

This session is twinned with session D8e, "Improving conservation targets for forest biodiversity: towards operational solutions from remote sensing technology" of the IUFRO World Congress in Curitiba - Brazil, October 2019

Planned output / Deliverables:

If there is enough interest, a joint research proposal and the writing of a common article will be promoted.



Voluntary contributions accepted:

Yes, I allow any abstract to be submitted to my session for review

Related to ESP Working Group/National Network:

[Biome working group: BWG 3 - Forests & Woodlands](#)