Special Issue

Forests Carbon and Water Dynamics

Message from the Guest Editors

Forests cover about one third of the world's land surface, over four billion hectares, according to the U.N. Food and Agriculture Organization. Forests provide a wealth of ecosystem services, including fiber and biomass production, carbon sequestration, and regulation of water quality and quantity. These water and carbon cycles are tightly linked at scales from the leaf to the globe, and perturbation of one cycle tends to cascade through to the other. Current and future predicted changes in climate are likely to affect coupled forest carbon-water cycles through a range of impacts, such as altered precipitation patterns, elevated CO2, rising temperatures and altered heatwave cycles. There is an increasing need to better understand forest carbon-water interactions under existing and projected future climate. This understanding will help to predict how critical ecosystem services of forests may be impacted by climatic change, and can underpin mitigation and adaptation strategies to cope with the expected changes. We are asking for papers examining coupled carbon and water cycles in forests under current and projected climatic changes, going from stands to larger scales.

Guest Editors

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Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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