



SPECIAL SESSION 6

Forest and vegetation spectroscopy

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The goal of the session

Spectroscopy is an emerging research field in monitoring the biodiversity, and structure and functioning of forests and other vegetation environments. Recent technological advances in sensor technology have led towards an increased number of applications which utilize hyperspectral data. Imaging and non-imaging spectrometers, and hyperspectral cameras, can be operated in laboratories or carried into the field for recording subtle changes in reflectance of different components forming forests or other vegetation canopies. In addition, novel data analysis methods are continuously developed to improve the interpretation of the collected spectra, and to support the use of spectral libraries in remote sensing of vegetation. This session welcomes presentations on advances in the field of vegetation spectroscopy related to, for example, 1) laboratory and in situ measurements of vegetation spectra (e.g., leaves and needles, woody structures, and forest understory), 2) spectral libraries of vegetation, or 3) novel data analysis methods and physically-based models utilizing such spectra.