



SPECIAL SESSION 2

Quantifying uncertainty in remote sensing - based forest attribute mapping and inventory

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The goal of the session

Forest maps made with remote sensing data are not perfect. So how do we use this valuable forest information to aid management and decision-making? We need transparent measures of uncertainty that can be used to appropriately weigh the reliability of remote sensing-based predictions. There have been many advances in statistically rigorous remote sensing-based forest attribute prediction and estimation in design-, hybrid- and model-based inferential paradigms. These advances include, for example, improvements in large and small area estimation for forest inventory, pixel-level prediction uncertainty and uncertainty propagation through multiple modeling stages. In this session we highlight the continued development and application of methods for remote sensing-based prediction and estimation that allow for the quantification of uncertainty in ways useful to decision-making.