



Application of Remote Sensing for Monitoring of Peatlands

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Message from the Guest Editor

Dear Colleagues,

Peatlands represent one of the most important ecosystems on Earth, mainly because of their huge carbon storage capacity and high vulnerability to climate change. Unfortunately, the majority of peatlands worldwide have been degraded and they are still under high anthropogenic pressure. Peatlands regulate local hydrology, influence water quality and meso- and macro-climates, but they also play a major role in the conservation of biodiversity.

Remote sensing is a powerful tool which can be used to monitor the regulatory functions of peatlands. Ground-, UAV-, airborne- or spaceborne-based RS approaches can be integrated with GHG flux towers and other ground-based monitoring datasets, while new remote sensing signals, new retrieval methods, sensors and modelling approaches can be applied in order to make the monitoring of peatland status more efficient and complementary.

We are interested in high-quality submissions that use remote sensing to study the effects of weather and climate extremes and/or anthropogenic impact on any aspect of peatland functioning. Studies integrating remote sensing with ground-based monitoring data and modelling are particularly welcome.





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