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Key note: Understanding land-atmosphere interactions: a remote sensing and modeling perspective

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The energy and water exchanges between the land surface and the lower atmosphere (i.e. land atmosphere interactions) plays an important role for the evolution of meteorological conditions and ecosystems. In the remote sensing department at UFZ, we aim to quantify the terrestrial water cycle dynamics from the integration of multi-source Earth observations and modelling framework across scales. This is crucial for understanding changes in land-atmosphere interaction and climate extremes. In addition, we also explore machine learning methods to improve conventional methods and exploit the combination of ground based measurements and remote sensing products, for example by estimating plant transpiration.

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