



UFZ-Seminar „Water and Environment“

5 October, 3 pm

Seminar Room 1, Brückstr. 3a, Magdeburg or

<https://ufz-de.zoom.us/j/6831992537?pwd=VXZFSmF3ZDZ3ckJ0dEUxNUQzSHR6QT09>

Jorrit Mesman

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will give a talk on

Current developments in simple and complex limnological models

The rapid development of global databases, machine learning algorithms, and modelling tools is leading to increased research possibilities in limnology, as well as in other sciences. However, this multitude of data and complex tools may simultaneously give a feeling of being overwhelmed by choices, and an increased difficulty to assess to what extent model output is realistic, therefore impairing its use in water management. In this seminar, I will give an overview of several ongoing developments in aquatic ecosystem modelling, and frame this in the perspective of simple and complex models - i.e. models that describe a small or a large amount of processes -, and how this affects the interpretability of models for research and management purposes. The increased availability of parameter-heavy and statistical tools provides new opportunities, but there are increasing signs that “simple” models should not be overlooked, even (or especially?) when we enter a world with more and more data.