

# Forests in a changing earth

*Wednesday 6 March 2024 10:45 (2 hours)*

Forests are a key component of our earth's system, providing essential landscape function for climate, water balance and biodiversity. This session aims at bringing together researchers investigating forest ecosystem functionality and responses to our changing earth system from different perspectives. However, the grand challenges posed by climate change add a layer of complexity, necessitating a collective effort also together with forest practitioners to comprehensively understand and address the impacts on our vital natural resources. We will start with a round of short presentations to update us on the different aspects that are covered by the participants followed by a discussion on specific topics that are brought up.

1. Introduction (Andreas Musolff)
2. Brainstorming on forest and future challenges (Stefan Kruse)
3. Flash Talks: Forest Hydrology at Lake Hinnensee: Comparison of different forest stands (Theresa Blume) Forests and climate change (Andreas Huth) Simulating treeline dynamics to disentangle drivers and consequences for biodiversity (Stefan Kruse) Water quality impacts of forest dieback on water quality in the Harz mountains (Andreas Musolff) Prototype development to support decision-making for sustainable preservation of Karlsruhe city forest (Katharina Bülow)
4. Cluster check (clustering and discussing the brainstorming results)
5. WrapUp

**Presenters:** KRUSE, Stefan (AWI); MUSOLFF, Andreas (UFZ); KNUTZEN, Florian (Hereon)

**Session Classification:** Breakout Sessions