

Leipziger Meteorologisches Kolloquium

Donnerstag, 30.11.2023, 16.00 Uhr, Stephanstraße 3a, Bjerknes Lecture Hall und

online <https://uni-leipzig.zoom.us/j/7253736454>

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“Representation of Blocking in Models and Climate Projections”

Adequately representing atmospheric blocking in climate models is important because of the different surface impacts associated with blocking such as heatwaves, drought, cold spells, wind droughts, and heavy precipitation; and the need to determine how blocking and blocking impacts may be changing under global warming. This lecture will cover the following topics: What are the different types of blocking and how are they identified in observational data and model simulations?

1. How has blocking varied historically and how are these variations represented by climate models?
2. How are different characteristics of climate models related to the models' ability to represent blocking?
3. How is blocking projected to change under global warming, and how confident can we be in these projections?