

Climate variability across scales – from the butterfly’s wings to the age of the Earth
– an online seminar series from Nov 2020 to March 2021 –

Variability at sub-daily time scales – from seconds to hours

Jürg Schmidli

2020-11-10, 16:00 CET

Abstract:

“The weather phenomena and near-surface weather variability we experience directly every day is the result of phenomena acting on time scales from seconds to days. While large-scale weather systems determine the weather evolution over several days, the near-surface and sub-daily variability is impacted by a variety of meso- and microscale weather phenomena, such as thunderstorms, local wind systems, and small-scale turbulence. The presentation will focus on the small-scale end and give an introduction to atmospheric turbulence and the atmospheric boundary layer (ABL) and illustrate the key-role of the dynamics of the ABL for understanding the sub-daily variability of near-surface temperature.”

The speaker:

Jürg Schmidli holds the professorship for boundary layer meteorology at Goethe Universität Frankfurt am Main since 2015. His research focuses on the dynamics of the atmospheric boundary layer over complex surfaces, in particular the coupling of the atmosphere with the land surface using simulations with weather and climate models.

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Further dates and speakers

1. **Jürg Schmidli** – IAU Frankfurt, Germany “**Variability at sub-daily time scales – from seconds to hours**”. Tuesday **10.11.2020 16:00-17:00**
2. **Christian Grams** – IMK-TRO/KIT, Germany “**Synoptic to sub-seasonal surface climate variability in the Atlantic-European region: the role of weather regimes.**”. Thursday **26.11.2020 16:00-17:00**
3. **Tine Nilssen** – UIT, Norway “**Decadal variability and the scaling paradigm**”. **3.12.2020 16:00-17:00**
4. **Michel Crucifix** – UC Louvain “**The challenge of centennial climate variability**”. Friday **18.12.2020 11:00-12:00 (title tbc)**
5. **Heather Andres** “**Millennial climate variability and Dansgaard-Oeschger events**” / **14 Jan 2021 16:00-17:00**
6. **Julie Schindlbeck-Belo**, GEOMAR Kiel, Germany – “**The links between volcanism and climate**”/ **20.1.2021 11:00-12:00**
7. **Oliver Friedrich**, GEOW HD, Germany – **Glacial/Interglacial climate variability (10⁵-10⁷ years)** **27.1.2021 11:00-12:00**
8. **Shaun Lovejoy**, McGill University/Canada – **Linking Climate Variability Across Scales – 17.3.2021 16:00-17:00**

All times stated are CET (Berlin).

Registration: The link to the online meeting (Zoom) will be sent a day before the seminar to the first 75 registered participants. For technical questions and registration, please send an email to paleodyn@iup.uni-heidelberg.de with the mail header “CVAS lecture series”. **Contact:** Kira Rehfeld (krehfeld@iup.uni-heidelberg.de)

