



Next Generation Challenges in Energy-Climate Modelling

Online workshop 22nd-23rd June 2020

Supported by the H2020 PRIMAVERA project

*A 5-year €15M programme across 14 leading climate research institutions to
develop a new generation of **advanced high-resolution global climate models***

www.primavera-h2020.eu

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Reflections

- Some stand out messages to me:
 - **Training and networking/collaboration** (summer school, videos, online, how-to documents, in-person, is there any need for additional EGU/AGU session given sessions already available?, linking with WEMC/OpenMod activities? ...)
 - **Data, data, data ...**
 - ... but **not just data!**
 - Sofia's data-truck
 - Paula's uncertainty sources
 - Bri-Mathias's implications of simplification
 - Intercomparison of energy-reanalysis datasets?
 - → What are modellers trying to achieve? What is the data capable of?
 - → Validation/bias-correction for purpose. Data sampling. Designing appropriate "experiments".
 - **Interlinked issues** ... maladaptation (preparing with the wrong expectations) and resilience (extreme/stress events)
 - **Need for common language** (e.g., ongoing "dictionary" efforts in energy science)
 - **Different views on energy-climate risk** in different regions
 - **Other topics** not explored – S2S/NWP and imperfect foresight

Responses:

- Laurent Dubus (RTE and World Energy Meteorology Council)
- Julie Lundquist (UColorado)

Wrap up



- Thank you to everyone for coming!
- Special thanks:
 - PRIMAVERA (<https://www.primavera-h2020.eu>)
 - Session convenors (especially Laurens, Matteo and Paula today) and group facilitators; guest speakers and responders
 - Hannah (master-of-ceremonies and all-round Zoom expertise!)
- Follow up:
 - Workshop booklet
 - Workshop write up / papers
 - Survey / feedback
 - Did the format work?
 - Need/desire/interest more events or fora for discussion (training or topic-focussed, e.g., forecasting, s2s, explore setting up a group [groups?] under WEMC or OpenMod ...?)
- Reminder – please join us at the post workshop social

Links and people



- Organising committee:
 - David Brayshaw (Univ Reading, chair)
 - Hannah Bloomfield (Univ Reading)
 - Jethro Browell (Univ Strathclyde)
 - Roger Dargaville (Monash)
 - Matteo de Felice (JRC)
 - Paula Gonzalez (Univ Reading)
 - Katharina Gruber (BOKU)
 - Adriaan Hilbers (ICL)
 - Alex Kies (Univ Frankfurt)
 - Julie Lundquist (Univ Colorado)
 - Mathaios Panteli (Univ Manchester)
 - James Price (UCL)
 - Laurens Stoop (Utrecht University, TenneT, KNMI)
 - Hazel Thornton (UK Met Office)
 - Jan Wohland (ETH Zurich)
 - Marianne Zeyringer (Univ Oslo)
- PRIMAVERA project homepage: <https://www.primavera-h2020.eu>
- University of Reading Energy-Meteorology group: <https://research.reading.ac.uk/met-energy/>