Providing Knowledge for a climate neutral and resilient Europe

Session B - Scoping new Horizons – Climate predictability: what comes next?

Format: short presentation followed by large time of interactive discussion to develop joint recommendations for research policy

In 2015, the JPI Climate in collaboration with the Belmont Forum launched a collaborative research call on Climate predictability and inter-regional linkages. 8 projects engaging partners from 12 countries – including both academics and societal actors - produced new knowledge, some of it being used by societal actors engaged in the projects. Outcomes of these projects are presented in short videos here.

These projects have showed that users – from different sectors such as agriculture, tourism or naval and aerospace transportation - need climate information for adaptation to climate change on a range of time scales and at local to regional scales.

This session aims at enlarging the discussion on future research priorities in the field of climate predictability from seasonal to decadal timescale building and will address three sets of research gaps

1) Climate predictions: what is their current status and perspectives for future improvements
2) Needs for future research on underlying processes of climate predictability including decadal climate variability and inter-regional linkages
3) Needs for future research with users to ensure a better use of climate predictions.

A short document presenting these 3 areas of research will be sent to participants in advance of the session. Participants in the JPI Climate Scoping Forum are invited to discuss these research priorities in the light of their own research or of their activities and users' needs. The session is organized to provide as much time as possible for the discussion.

Moderator: Sylvie Joussaume (CNRS, France)
Rapporteur: Anne-Hélène Prieur-Richard (The French National Research Agency, France)

0 – 10	**Welcoming words & get to know each other** (Mentimeter survey)

- Where do the participants come from?
- To what extent have they dealt with this field so far?
- Did they already take part in an European/international project in this field of research?
- Did they already take part in a transdisciplinary project in this field of research?

10 – 20   **Challenges for climate predictability** (including role of artificial intelligence in improving our climate modelling capacity)**, Daniela Matei** (Max Planck Institute for Meteorology, Germany)

20 – 30   **Gaps in understanding processes underlying climate prediction, Dim Coumou** (Vrije Universiteit Amsterdam, The Netherlands)

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30 – 40 **Gaps in understanding processes underlying climate prediction: focus on the relations between short- and long-term processes, Pascale Braconnot** (Laboratory of Climate and Environment Sciences, France)

40 – 50 **Research needs for science-policy-society interfaces** (co-production of research)**, Valeria Hernández & M. Florencia Fossa Riglos** (Universidad Nacional de San Martin, Argentina, & Institut de Recherche pour le Développement, France)

50 – 85 **Interactive discussion with the audience on research challenges and development of recommendation for research policy** (Using Jamboard)

85 – 90 **Wrap up, Sylvie Joussaume** (CNRS, France)