

**Climate Predictability and Inter-Regional Linkages Pune Stakeholder Event:
Paleo/present/future monsoon variability and implications for environment, policy and society.**

Pune, India, 18-20 March 2020

This stakeholder event brings together researchers from three projects of the JPI Climate - Belmont Forum “Climate Predictability and Inter-Regional Linkages” programme, to cover complementary aspects of monsoon variability, predictability and change, with groups from the academic and non-academic communities. The aim is to share project results and co-design their transformation into actionable information relevant for policy makers, water management; environment and agriculture sectors.

The projects provide a complementary focus on monsoons by considering different space and time scales, and links to polar regions. BITMAP focuses on high latitudes, their connection with the winter rains of Northern India and the summer monsoon. The project considers how changing temperatures and Arctic sea-ice affect the jet stream and Indian weather. GOTHAM represents an ambitious research programme for gaining robust, relevant and transferable knowledge of past and present-day regional climate variability and extremes. The project has improved seasonal to decadal climate predictions by using a combination of contemporary climate models, citizen-science computing and advanced statistical analysis tools. PACMEDY uses annually-resolved palaeo-records of climate variability over the past 6000 years, including: corals, mollusks, speleothems and tree rings; together with global climate-model simulations and high-resolution simulations of the Indian, African and South American monsoons. PACMEDY provides improved understanding of monsoon dynamics and related interannual to multi decadal variability. The project assesses the credibility of climate projections and the likelihood of extreme events on decadal time scales. By bringing together the results of these three projects new insights are gained for adaptation and risk management.

These projects were designed with the aim to provide new resources for climate services. However, there is a need to fill the gap between academic outcomes and user needs. In this respect, the stakeholder forum will:

- Inform on the results in a way understandable and suitable for stakeholders, so as to enhance the impact of this research and improve result dissemination.
- Provide access to the latest results, and identify how they can lead to improved decision making or improved policies for adaptation to climate change and improvements to risk management.
- Phrase relevant “science for action” questions to be addressed in future projects in the context of climate predictability.

The 3-day meeting will be organized with morning session project presentations and stakeholder interest and requests; and breakout-group afternoon sessions on the design of targeted products, and key questions to be addressed in future projects.

Each day will cover a particular topic, with day 1 on water resources, day 2 on environment and agriculture, and day 3 dedicated to policy maker. For each topic sessions will:

- Explore the relevant issues, share ideas and best practice, generate new ideas and improve awareness of emerging issues.
- Identify cross-cutting issues and possible applications
- Co-design products of projects with stakeholders to provide clearer definition of desired outcomes
- Identify effective dissemination avenues and improve clarification of 'common' language.

For each topic expected outcomes of the meeting cover:

- Access to project results, data sets and dedicated sector-dependent syntheses: water, agriculture or policy makers (risks).
- Training / lecture/ mediation material for capacity building
- Possibility for directions and partnerships, funding

Summaries of the discussion will be provided for each topic at the end of the meeting in the form of synthetic note highlighting stakeholder interest, and which aspects would require further developments or serve as a basis for guiding future follow on programs