

World Climate Research Programme My Climate Risk

42nd Session of the WCRP Joint Scientific Committee



Our ambition



Vision

The new science that is envisaged within MCR is not around models, or observations, or process understanding, but on how they are all used together within a context of deep uncertainty.

© Goal

To develop and mainstream a 'bottom-up' approach to regional climate risk, which starts from the decision context (and the decision scale) and enables relevant climate information to be brought into that context.

Purpose

By developing a new framework for assessing and explaining the physically plausible climate drivers of regional climate risk, climate information will be made meaningful at the local scale.





Science Plan

- ✓ The overall goal of *My Climate Risk* is to develop new paradigms for regional climate risk assessment studies, e.g., through distilling generic vs. context-specific aspects.
- ✓ The key to this is process understanding of the variability/change of regional climate and climate extremes on targeted timescales, within a particular local context.
- My Climate Risk will largely draw on existing stakeholder engagement studies that have already generated knowledge on stakeholder needs, working closely with locally grounded partners.
- A canonical activity would be to discuss current risk in a given situation, with proximate explanations, and then develop storylines of future climate-related risk based on those explanations. In this way, the past can be related to the future within a risk framing.



Original Members	Country	Rep.	Career Stage
Regina Rodrigues	Brazil	CLIVAR	EMCR
Ted Shepherd	UK	-	SCR
Lisa Alexander	Australia	JSC	SCR
Jens H. Christensen	Demark	JSC	SCR
Mat Collins	UK	CLIVAR	SCR
Francisco Doblas-Reyes	Spain	ESMOC	SCR
Francina Dominguez	USA	GEWEX	EMCR
Harry Hendon	Australia	SPARC	SCR
Daniela Jacob	Germany	RifS	SCR
Gaby Langendijk	Germany	ESMOC	EMCR
Douglas Maraun	Austria	ESMOC	EMCR
Ali Nazemi	Canada	GEWEX	EMCR
Susann Tegtmeier	Canada	ESMOC	EMCR
Lin Wang	China	SPARC	EMCR

Membership



Increasing the number of members and improving diversity

New Members	Country	Rep.	Career Stage
Hanne H. Christiansen	Norway	CliC	SCR
Amadou Gaye	Senegal	-	SCR
Paola A. Gomez	Colombia	GEWEX	EMCR
Kendra Gotangco	Philippines	-	EMCR
Sakshi Mankotia	India	CliC	EMCR
Somnath B. Roy	India	-	EMCR





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My Climate Risk

SRI 2021 – Round Table

- Designing new frameworks for using all the available sources of information on climate risk Dr Anna Sörensson, University Buenos Aires, Argentina
- ✓ Bridging knowledge gaps in transdisciplinary research Dr Chi Truong, Himalayan Univ. Consortium, Nepal
- Redressing the power imbalance between the Global North and Global South in the production of knowledge and use of information Dr Laura Pereira, Stellenbosch University, South Africa and Stockholm Resilience Centre, Sweden
- Developing scalable tools for understanding and addressing climate risk within a local and social context Dr Ros Cornforth, University of Reading, UK





Other Initiatives

- ✓ Workshop on Storying Climes of the Himalaya, Andes and Arctic
- ✓ Ocean Climate Risk UN Ocean Decade





Vision



Structure – Labs

A non-hierarchical ecosystem of labs/communities of practice; like a *mycorrhizal network*, sharing resources rather than competing for them, and anchored by 'mother trees' in the form of *regional hubs*



Vision







A Study of Economics as if People Mattered

Structure – Labs

From E.F. Schumacher's concept of "Intermediate Technologies" (a chapter in *Small is Beautiful*, 1973), production methods should be:

- ✓ used in workplaces located where people live now (rather than forcing them to migrate)
- ✓ cheap
- ✓ relatively simple
- \checkmark using local materials and mainly for local use

In our case, we are producing *information*, so can draw on the worldwide storehouse of information through the entire **WCRP**

Challenges



Lack of

Continuity

The project cycle mode of operation and the competitive nature of the science funding model

Stakeholder 😔

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Repeated engagement from researchers which serves only the researchers

Documenting Outcomes

Challenges in documenting outcomes and in publishing transdisciplinary work

Equity and Legitimacy

"...inequitable North–South partnerships [are] borne out of a paradigm of knowledge deficit and capacity development that runs the risk of entrenching existing inequalities....Creating frameworks that enable the establishment of equitable partnerships requires a shift in perspectives on, and processes related to, the design, implementation and evaluation of success." Vincent et al. (*Nature Climate Change*, 2020).

Next Steps



Network of regional hubs



Grow network of *regional hubs* based on and driven by existing institutions who share values with MCR

The *regional hubs* should support and connect local labs and would be represented on the MCR science team, providing the connection to the rest of the WCRP Connections to the *regional hubs* would be nurtured through a variety of mechanisms, including training, to develop trust and build long-term, equitable partnerships

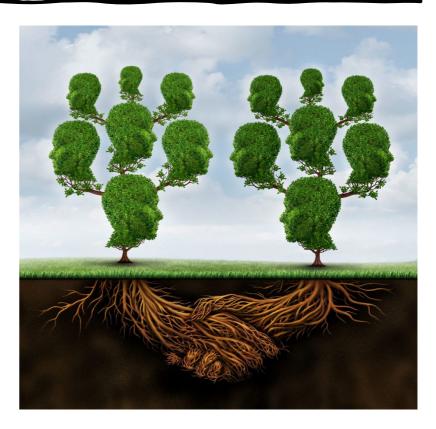
Next Steps

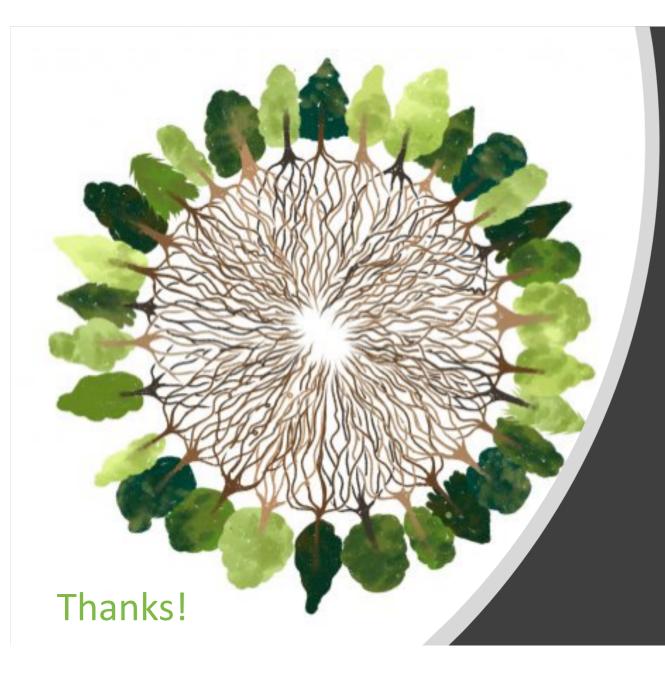




Evolution of Science Team

Delegated representatives of JSC and of other WCRP entities on science team should be 'ex officio' Regular members of science team should be willing to engage and help move things forward, with a good regional representation





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