

Democratising climate science: how climate model emulators add robustness and relevance to IPCC AR6

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Website: <https://apps.ipcc.ch/outreach/programme.php?q=38&e=1>

Description (max 250 words)

Democratising climate science: how climate model emulators add robustness and relevance to IPCC AR6

Agenda

It may surprise delegates that several of the IPCC AR6 headline results relating to Paris targets, net zero and some climate impacts are underpinned by climate model emulators: reduced complexity climate models based on physics developed 50 years ago. The same physics that won this year's Nobel Prize. This event will shed light on the future climate evidence needed for effective mitigation and adaptation policy. It will also showcase the success of these emulators for translating science into policy, using IPCC AR6 as a prime example. It looks to the future where these simple modelling can be better democratised and made more relevant to adaptation needs. It will provide bang up-to-date evidence on how COP26 ambitions will benefit future climate and also launch a democratic online platform allowing anyone to do their own climate modelling.

Elements:

- 1) Introduction and quiz with Nobel Prize winner interviews;
- 2) Round table of user needs,
- 4) How emulators have helped set mitigation goals from AR5 to SR1.5 and AR6;
- 5) IPCC AR6 evidence for mitigation needs;
- 7) The future of climate model emulators;
- 8) Demonstration of online climate emulator tools

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Speakers/Panelists

- Professor Klaus Hasselmann (MPI, 2021 Nobel Prize for Physics co-recipient, Germany)
- Professor Piers Forster (IPCC WGI AR6 Coordinating Lead Author, UK)
- Marion Ferrat (UN Sustainable Development Solutions Network)
- Rueanna Haynes (Trinidad and Tobago delegate)
- Rex Barrer (Institute for Climate and Sustainable Cities, Philippines)
- Dhanush Dinesh (CCAFS - Alliance Biodiversity-CIAT)
- Dr Anna Pirani (IPCC WGI head of TSU, Italy)
- Dr Jan Fuglesvedt (IPCC WGI vice chair ,Norway)
- Dr Joeri Rogelj (IPCC WGI Lead author, Belgium)
- Professor Malte Meinshausen (IPCC WGI Lead Author, Australia)
- Dr Zebedee Nicholls (IPCC WGI Contributing Lead Author, Australia)
- Dr Chris Smith (IPCC WGI Contributing Lead Author, UK)
- Ms Harriet Forster (Glasgow School of Art Student)

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