



Programme

Climate Science2Policy workshop

17-18 November 2020

Organised by the Executive Agency for Small and Medium-sized enterprises (EASME), European Commission, in collaboration with a cluster of H2020 Earth System Science projects:



The workshop will take place using the **Zoom** platform (details are provided for each day separately).

Joining instructions:

- It is recommended that you attend the meeting via the Zoom app downloaded to your desktop or your mobile phone. This will allow for a better meeting experience.
- If you can only access the event via the browser, Chrome is the recommended browser.
- Zoom platform is kindly provided by CRESCENDO and EUCP projects. Please contact hazel.jeffery@metoffice.gov.uk or paula.newton@metoffice.gov.uk if you have any questions or problems with the Zoom meeting.

We will use **Slido** to collect feedback from the participants. One the day of the event, please go to [Slido website](#) and enter code **#CS2P2020**. Questions will be asked throughout the event.

DAY 1: 17 November 2020, 09:00 – 16:15 (CET)

Climate sensitivity and emerging findings on the physical science of climate change relevant for climate policies

Join Zoom Meeting

<https://ncas.zoom.us/j/99854074349?pwd=dkpRbGhHLzRKYTl2ZjdxdEpoTXpwUT09>

Meeting ID: 998 5407 4349

Passcode: 542798

09:00-09:15 S0: WELCOME and INTRODUCTION

- **Patrik Kolar**, Head of Department LIFE and H2020 Energy, Environment, Resources (EASME)
- **Franz Immler**, Head of Sector Climate Action (EASME)

09:15-10:30 S1: EVALUATIONS OF CLIMATE MODELS

Chairs: **Malcolm Roberts** (PRIMAVERA) and **Roland Séférian** (CRESCENDO)

Rapporteur: **Alexander Askew** (UK Met Office)

- Quantifying progress of climate models across different CMIP phases (**Lisa Bock**, CRESCENDO, DLR)
- The role of model resolution in climate simulation: Lessons from H2020 PRIMAVERA (**Malcolm Roberts** (UK Met Office) and **Pier Luigi Vidale** (NCAS-Climate, University of Reading))
- Emergent Constraints on Earth System Sensitivities (**Peter Cox**, CRESCENDO, University of Exeter)
- Research and Policy Recommendations
- Panel discussion with **Lisa Bock**, **Malcolm Roberts**, **Pier Luigi Vidale**, **Peter Cox** and **Len Shaffrey** (University of Reading)

10:30-10:45 BREAK

10:45 - 12:00 S2: PROJECTIONS, PREDICTIONS and EXTREME EVENTS

Chairs: **Jason Lowe** (EUCP) and **Tatiana Ilyina** (CRESCENDO)

Rapporteur: **Carol McSweeney** (EUCP, UK Met Office)

- Recent improvements in initialised decadal predictions (**Francisco Doblas-Reyes**, EUCP, BSC)
 - Latest news on assessment of CMIP6 future projection (**Chris Jones**, CRESCENDO, UK Met Office)
 - The benefits and risks of weighting future projections (**Ruth Lorenz**, CRESCENDO, ETHZ)
 - Demonstrating the value of high resolution convective permitting simulations for European extremes (**Danijel Belusic**, EUCP, SMHI)
 - Panel discussion 1: Research gaps
 - Panel discussion 2: Policy implications
- Panellists: **Francisco Doblas-Reyes**, **Chris Jones**, **Ruth Lorenz**, **Danijel Belusic**, **Lukas Brunner** (EUCP, ETHZ)

12:00 – 13:30 LUNCH BREAK

PARALLEL SESSION A

(details on PARALLEL SESSION B are on page 4)

Join Zoom Meeting

<https://ncas.zoom.us/j/99854074349?pwd=dkpRbGhHLzRKYTl2ZjdxdEpoTXpwUT09>

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13:30 - 14:45 **S3-A: CARBON BUDGETS, including climate factors in the Covid-19 pandemics**

Chairs: **Philippe Peylin** (VERIFY) and **Kasia Tokarska** (CONSTRAIN and 4C projects)

Rapporteur: **Philippe Peylin** (VERIFY, LSCE)

- CO2 emissions and earth system response in the Covid-19 pandemics (**Pierre Friedlingstein**, 4C, University of Exeter)
- Global carbon budget, tailoring to next global stocktake and importance of net zero dates (**Kasia Tokarska**, CONSTRAIN, ETHZ)
- Towards a regular synthesis of carbon budgets at national scale (**Han Dolman**, VERIFY, VU Amsterdam)
- Presentation of policy and research recommendations (**Philippe Peylin**, VERIFY) and discussion with panellist (**Philippe Peylin, Kasia Tokarska, Pierre Friedlingstein, Han Dolman**)

14:45 - 15:00 BREAK

15:00 - 16:15 **S4-A: CLOUDS and AEROSOLS**

Chairs: **Ilona Riipinen** (FORCeS) and **Johannes Quaas** (CONSTRAIN)

Rapporteur: **Johannes Quaas** (CONSTRAIN, University of Leipzig)

- Is there a conflict between the clean air goals of the European Green Deal and climate neutrality? ([FORCeS policy brief](#)) (**Erik Kjellström**, FORCeS, SMHI)
- Cloud Feedbacks (**Bjorn Stevens**, CONSTRAIN, MPI)
- Presentation of policy and research recommendations (**Johannes Quaas** (CONSTRAIN) and discussion with panellists (**Ilona Riipinen, Johannes Quaas, Erik Kjellström, Bjorn Stevens**)

16:15 END OF DAY 1

PARALLEL SESSION B

(details on PARALLEL SESSION A are on page 3)

Join Zoom Meeting

<https://us02web.zoom.us/j/86778464707?pwd=Ti9BOVR5REV3SUFMR09GVkxmYVc0dz09>

Meeting ID: 867 7846 4707

Passcode: 675436

13:30 - 14:45 **S3-B: OCEAN and POLAR PROCESSES**

Chairs: **Thomas Jung** (APPLICATE) and **Steffen M. Olsen** (Blue-Action)

Rapporteurs: **Sara Pasqualetto** (APPLICATE, AWI) and **Marta Terrado** (APPLICATE, BSC)

- Welcome and introduction by the *Chairs*
- Polar climate change and remote impacts (**Thomas Jung**, APPLICATE, AWI)
- Permafrost thaw, a feedback to the physical, social and cultural Earth (**Hugues Lantuit**, Nunataryuk, AWI)
- Southern Ocean: the thermostat of our planet (**Jean-Baptiste Sallée**, SO-CHIC, LOCEAN-IPSL)
- AMOC and its regional components (**Steffen M. Olsen**, Blue-Action, DMI)

- Presentation of policy and research recommendations
- Panel discussion (**Thomas Jung, Steffen M. Olsen, Hugues Lantuit, Jean-Baptiste Sallée**)

14:45 - 15:00 BREAK

15:00 - 16:15 **S4-B: TIPPING POINTS**

Chairs: **Christoph Heinze** (COMFORT) and **Petra Langebroek** (TiPACCs)

Rapporteur: **Lola Rodriguez** (NORCE)

- Recent results from the TiPES project: a 66-million-year climate record, anthropogenic CO₂ release is unprecedented, and how to determine if tipping elements are approaching transitions (**Niklas Boers**, TiPES, PIK)
- Tipping points within the Antarctic Ice Sheet (**Hilmar Gudmundsson**, TiPACCs, University of Northumbria)
- Marine tipping points and novel environmental conditions – insights for future management (**Thorsten Blenckner**, COMFORT, Stockholm University)
- Presentation of recommendations for policy and research (towards white paper) (**Christoph Heinze**, COMFORT, University of Bergen)

- Discussion with the panellists (**Niklas Boers, Hilmar Gudmundsson, Thorsten Blenckner, Svein Østerhus**) and audience concerning the recommendations

16:15 END OF DAY 1

DAY 2: 18 November 2020, 09:00 – 13:00 (CET)

Cross-cutting topics on H2020 project implementation

Join Zoom Meeting

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09:00-10:00 S1: HIGHLIGHTS of DAY 1 and POLICY BACKGROUND

Moderator: **Franz Immler** (EASME)

- Highlights of Day 1: Report on recommendations (**Alexander Askew, Carol McSweeney, Johannes Quaas, Philippe Peylin, Sara Pasqualetto, Marta Terrado** and **Lola Rodriguez**)
- Presentation of the European Green Deal, the New Adaptation Strategy and the Climate 2030 Target Plan (**Miles Perry**, DG CLIMA)
- Presentation of Missions on Climate Resilient Europe and Starfish 2030, and Horizon Europe (**Philippe Tulkens**, DG RTD)

10:00-10:15 BREAK

10:15 – 11:15 S2: COMMUNICATING and DISSEMINATING RESULTS in H2020

Moderators: **Saša Zavadlav** and **Erwin Goor** (EASME)

- Experience in organizing science to policy briefs (**Chiara Bearzotti** and **Hannah Grist**, Blue-Action project)
- Experiences in networking from the Climateurope project (**Tyrone Dunbar** and **Stacey New**, Climateurope)
- ScienceBrief: a new web platform to help keep up with (climate) science and make sense of peer-reviewed publications (**Corinne Le Quéré**, 4C)
- Panel discussion (Moderator: **Philippe Tulkens**, DG RTD); Panellists: H2020 projects

11:15 - 11:30 BREAK

11:30 - 12:30 S3: COMPUTING and DATA INFRASTRUCTURE

Moderators: **Richard Tavares** and **Alberto Zocchi** (EASME)

- Exploiting Petascale for CMIP6-HighResMIP (**Pier Luigi Vidale**, PRIMAVERA)
- Climate modelling: computing and data infrastructure needs (**Sylvie Joussaume**, IS-ENES3)
- The EuroHPC Supercomputing Infrastructure (**Evangelos Floros**, EuroHPC)
- PRACE serving Science (**Florian Berberich**, PRACE)
- Panel discussion; Panellists: H2020 projects

12:30 – 13:00 WRAP-UP and NEXT STEPS

Franz Immler (EASME), **Philippe Tulkens** (DG RTD), **Liviu Stirbat** (DG CLIMA)

13:00 END of DAY 2