September

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High-level Expert Workshop on Climate Adaptation Modelling



September

08

Adaptation Policy

organised by the European Commission, DG Climate Action in cooperation with the Euro-Mediterranean Centre on Climate Change, Deltares, the Institute for Environmental Studies - Vrije Universiteit Amsterdam, and Paul Watkiss Associates

Building resilience to climate variability and change is a shared concern of the EU internal and external actions. The EU and Member States' committed to the 2030 Agenda for Sustainable Development and complementary multilateral frameworks, including the Paris Agreement on Climate Change and the Sendai Framework for Disaster Risk Reduction 2015-2030. The Paris Agreement is the first universal, legally binding global deal to combat climate change and adapt to its effects. The Paris Agreement embraced bold actions set to curb the global temperature rise. The adaptation goal focuses on ability to adapt to the adverse impacts of climate change and on climate resilience, so contributing to sustainable development

The Workshop offers an opportunity for modellers and experts from academia, public agencies, business enterprises and societal organisation to exchange knowledge and good practices on adaptation to climate change and strengthen professional networks.

The results of the study CLIMA.A3/ETU/2018/0010 Study on Adaptation Modelling will be presented during the workshop. The study aims at summarising the state-of-the-art across the adaptation modelling fields, identifying gaps and unused opportunities, and contributing to improving access to and uptake of climate data and open access/source modelling tools for the purpose of better-informed policy and decision making.

High Level Panel

16.00 - 17.30

Central European Summer Time (CEST)

Register https://bit.ly/2ELupQJ

Elena Višnar Malinovská, European Commission, DG CLIMA The revised EU Adaptation Strategy - challenges and priorities

Nacira Boulehouat, European Commission, DG ECHO Overview of natural and man-made disaster risks the EU may face

Philippe Tulkens, European Commission, DG RTD Mission Area on Adaptation to climate change and societal transformation

Adaptation Modelling

September

Community Workshop -

Sectoral
adaptation

A. Sánchez-Arcilla E. Borgomeo H. Sanderson F. Larosa V. Murray K. C. Kersebaum D. Perez Blanco

M.Pulido-Velazquez

Policy & planning

C.Giupponi M. Zebisch M. Ruiz-Ramos

R. Schwarze T. Carter

M. Máñez Costa

R. Wilby E. De Cian **Integrated** modelling

R. Pant T. Wagener J. Sillmann

F. McGovern P. Forster

J. Maire R. Street

B. van den Hurk

Climate extremes

B.Kalsnes H. Kreibich

M. Scholer L. M. Bouwer

F. Lefebre

O. M. Ferreira

J. Neal J. Mol

10.00 - 13.00

Central European Summer Time (CEST)

Only for invited participants

Hands-on tutorials-

A. Trabucco, CMCC, Forest fire vulnerability (https://bit.ly/34XfXjP)

D. Wagenaar, Deltares, Coastal flood risks (https://bit.ly/2YQdBiw)

P. Mercogliano, CMCC, Calculating heat stress (https://bit.ly/3hNLCHI)

K. van Ginkel, Deltares, Adaptation pathway generator (https://bit.ly/3gJHDur)

14.00 - 15.30

Central European Summer Time (CEST)

High Level Panel

Carlo Buontempo, ECMWF — European Centre for Medium-Range

Weather Forecasts

Copernicus Climate Change Service

Blaz Kurnik, EEA — European Environment Agency

Assessing climate risks and monitoring adaptation progress

Luc Feyen, JRC — Joint Research Centre

Adaptation study in PESETA and beyond

Zintis Hermansons, ESPON European Grouping of Territorial Cooperation

Climate change adaptation modelling at the ESPON

16.00 - 17.30

Central European Summer Time (CEST)

Register

https://bit.ly/32M0v78

September

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Adaptation SAM-PS Study

Study on Climate Adaptation Modelling

10.00 - 11.30

Central European Summer Time (CEST) Introduction

11.30 – 13.00 Central European Summer Time (CEST)

Only for invited participants

Detailed presentation

Project overview and key component

Desk review and gap analysis

Recommended approach to analysis

Use case and case studies and rapid assessment

EU policies & investments	Regional & urban adaptation	Private sector & insurance
K. van Ginkel	J. ter Maat	W. Botzen
U. Taner	D. Perez Blanco	C. Davies
R. Wilby	H. Goosen	N. Kroener
P. Ward	A.Markanday	G. Mulder

Hands-on tutorials

14.00 - 15.30 Central European Summer Time (CEST)

- A. Trabucco, CMCC, Forest fire vulnerability (https://bit.ly/3bhecz6)
- D. Wagenaar, Deltares, Coastal flood risks (https://bit.ly/34SM5os)
- P. Mercogliano, CMCC, Calculating heat stress (https://bit.ly/2YU8Cxl)
- K. van Ginkel, Deltares, Adaptation pathway generator (https://bit.ly/2QKWA57)

Summary and conclusions

16.00 - 17.30

Central European Summer Time (CEST)

Only for invited participants

Francesco Bosello, Euro-Mediterranean Centre on Climate Change Jeroen Aerts, Institute for Environmental Studies, Vrije Universiteit Enrico Scoccimarro, Euro-Mediterranean Centre on Climate Change Ad Jeuken. Deltares

Claus Kondrup, European Commission, DG CLIMA

Farewell talk and next steps

Sectoral adaptation 09/08/2020

Chair: Jaroslav Mysiak, Euro-Mediterranean Centre on Climate Change, and Ad Jeuken, Deltares

Detailed agenda Community workshop

10.05 - 10.20	Agustín Sánchez-Arcilla, University of Catalonia
	Hybrid modelling for coastal adaptation
10.20 - 10.35	Edoardo Borgomeo, University of Oxford
	Water resource system modelling for climate adaptation
10.35 - 10.50	Hans Sanderson, Aarhus University
	Cascading Transitional Climate Risks in the Private Sector — Risks and Opportunities
10.50 - 11.05	Francesca Larosa, Euro-Mediterranean Centre on Climate Change
	Making the business case for climate services
11.05 - 11.30	Coffee break
11.30 - 11.45	Virginia Murray, Public Health England
	Climate Change Adaptation and Societal Transformation — what are the public health challenges and opportunities?
11.45 - 12.00	Kurt Christian Kersebaum, Leibniz-Zentrum für Agrarlandschaftsforschung
	Modelling to evaluate climate resilience of crop rotations under climate change
12.00 - 12.15	Dionisio Perez Blanco, University of Salamanca and CMCC
	Navigating deep uncertainty in complex human-water systems
12.15 - 12.30	Manuel Pulido-Velazquez University of Valencia
	A top-down meets bottom-up approach for climate change adaptation in water resource systems

Adaptation policy & planning 09/08/2020

Chair: Bart van der Hurk, Deltares and Jeroen Aerts, Institute for Environmental Studies

10.05 - 10.20	Carlo Giupponi, University Ca' Foscari of Venice
	Operationalizing climate proofing in decision/policy making
10.20 - 10.35	Marc Zebisch, Eurac Research
	Climate impact chains - A conceptual modelling approach for climate risk assessment in the context of adaptation planning
10.35 - 10.50	Margarita Ruiz-Ramos, Universidad Politécnica de Madrid
	Reducing and managing uncertainty of adaptation recommendations to increase user's uptake
10.50 - 11.05	Reimund Schwarze, Helmholtz-Centre for Environmental Research
	Modelling the cost and benefits of adaptation
11.05 - 11.30	Coffee break
11.30 - 11.45	T. Carter, S. Fronzek, Finnish Environment Institute (SYKE)
	A model-based response surface approach for evaluating climate change risks and adaptation urgency
11.45 - 12.00	María Máñez Costa, Climate Service Center Germany — GERICS
	Weather and Climate services to support a risk sharing mechanism for adaptation of the agricultural sector
12.00 - 12.15	Robert Wilby, Loughborough University
	Stress-testing adaptation options
12.15 - 12.30	Enrica De Cian, Ca' Foscari University of Venice and CMCC
	Adaptation policy & planning. The blind spot of energy

09/08/2020 Integrated modelling

Chair: Francesco Bosello and Andrea Bigano, Euro-Mediterranean Centre on Climate Change

Raghav Pant, University of Oxford Advances in climate adaptation modelling of infrastructure networks	10.05 - 10.20
Thorsten Wagener, University of Bristol	10.20 - 10.35
On the evaluation of climate change impact models for adaptation decisions	
Jana Sillmann, Center for International Climate Research	10.35 - 10.50
Cross-sectoral challenges for adaptation modelling	10 50 11 05
Frank McGovern, JPI Climate Adaptation modelling: a JPI Climate perspective	10.50 - 11.05
Coffee break	11.05 - 11.30
Piers Forster, University of Leeds	11.30 - 11.45
Relationship Between Net Zero Emissions and Adaptation Policy	
P. Alexander, A. Arneth, J. Maire, University of Edinburgh	11.45 - 12.00
A new modelling approach to adaptation-mitigation in the land system	
Roger Street, University of Oxford	12.00 - 12.15
Climate services supporting adaptation modelling	
Bart van den Hurk, Deltares	12.15 - 12.30
Impact oriented climate information selection	

09/08/2020 Adaptation to climate extremes

Chair: Wouter Botzen, Institute for Environmental Studies and Enrico Scoccimarro, Euro-Mediterranean Centre on Climate Change

Bjørn Kalsnes, Norwegian Geotechnical Institute Use of vegetation for landslide risk mitigation	10.05 - 10.20
Heidi Kreibich, Deutsches GeoForschungsZentrum (GFZ)	10.20 - 10.35
Dynamic flood risk modelling in human-flood systems	
Marie Scholer, European Insurance and Ocupational Pensions Authority	10.35 - 10.50
Climate change adaptation in insurance Laurens M. Bouwer, Climate Service Center Germany	10.50 - 11.05
The roles of climate risk dynamics and adaptation limits in adaptation assessment	10.30 - 11.03
Coffee break	11.05 - 11.30
Filip Lefebre, Flemish Institute for Technological Research	11.30 - 11.45
Climate-fit City: urban climate data and services	
Óscar Manuel Ferreira, Universidade do Algarve	11.45 - 12.00
Modelling risk reduction measures to minimise future impacts of storms at coastal areas	40.00 40.45
Jeffrey Neal, University of Bristol	12.00 - 12.15
Recent innovations in flood hazard modelling over large data sparse regions Jantsje Mol, Institute for Environmental Studies, VU University	12.15 - 12.30
Climate adaptation by homeowners	12.10 - 12.30

Detailed agenda SAM-PS presentation 10/08/2020

Adaptation modelling for European

	policies and investments		private sector and insurance
11.45 — 11.55	Moderator: Paul Watkiss, Paul Watkiss Associates Session introduction	11.45 — 11.55	Moderator: Ad Jeuken, Deltares Session introduction
11.55 — 12.10	Kees van Ginkel, Deltares Climate impact on Road networks	11.55 — 12.10	Wouter Botzen, Institute for Environmental Studies Flood Insurance models
12.10 — 12.25	Umit Taner, Deltares World Bank decision tree framework	12.10 — 12.25	Craig Davies, EBRD - Integrating physical climate risk into the supervision of financial markets
12.25 — 12.40	Rob Wilby, University of Loughborough Tools for climate resilient investments	12.25 — 12.40	Nico Kroener, South Pole Application of climate risk tools for companies
12.40 — 12.55	Philip Ward, Institute for Environmental Studies Acqueduct tools for global analyses	12.40 — 12.55	Gerhard Mulder, Climate Risk Services Applications of climate risk tools in the financial sector
12.55 — 13.00	Wrap up	12.55 — 13.00	Wrap up

Adaptation modelling for

Adaptation modelling for regional and urban adaptation

11.45 — 11.55	Moderator: Robert Mc Call, Deltares Session introduction
11.55 — 12.10	Judith ter Maat, Deltares Water allocation and distribution for the Rhine
12.10 — 12.25	Dionisio Perez Blanco, University of Salamanca and CMCC Hydro micro-macroeconomic modeling for agricultural decision making
12.25 — 12.40	Hasse Goosen, Climate Adaptation Services Tools for climate stress testing in the Netherlands
12.40 — 12.55	Ambika Markanday, Basque Centre for Climate Change RESIN tools: the adaptation options library
12.55 — 13.00	· · · · · · · · · · · · · · · · · · ·