



**May 13**  
**08:30 - 10.30**  
**Room 15**

**Topic: Economics**

## Economics of Adaptation – European Case Studies on the Costs and Benefits of Climate Change and Adaptation

### Programme

Chair: Sven Schulze

Time	Programme
08:30 – 08:45	<b>Malte Jahn (HWWI, Hamburg, Germany)</b> Regional costs and benefits of adaptation to extreme weather events: A SCGE framework
08:45 – 08:50	<b>Q&amp;A</b>
08:50 – 09:05	<b>Elco Kooks (VU University of Amsterdam, Amsterdam, Netherlands)</b> The economic-wide consequences of large-scale floods. How resilient is the European economy?
09:05 – 09:10	<b>Q&amp;A</b>
09:10 – 09:25	<b>Thomas Drosdowski (GWS, Osnabrück, Germany)</b> Germany and extreme weather events: Do investments in adaptation measures pay off?
09:25 – 09:30	<b>Q&amp;A</b>
09:30 – 09:45	<b>Birgit Bednar-Friedl (University of Graz, Austria)</b> Direct and indirect effects of climate change on public budgets: A CGE analysis for Austria
09:45 – 09:50	<b>Q&amp;A</b>
09:50 – 10:05	<b>Adrian Perrels (Finnish Meteorological Institute (FMI), Helsinki, Finland)</b> The economic impacts of climate change on critical infrastructure in Europe
10:05 – 10:10	<b>Q&amp;A</b>
10:10 – 10:25	<b>Gabriele Standardi (FEEM, Venice, Italy)</b> Assessing the economic equilibrium effects of sea level rise in the Italian regions
10:25 – 10:30	<b>Q&amp;A</b>

**Poster:**



Adapting to climate change: the costs and benefits of incremental and transformative changes	Dr Wreford Ms, Anita, Edinburgh
An economically sound supply level for freshwater in the Netherlands? The results of 35 years of economic analyses to protect the Dutch fresh water supply.	MSc Schasfoort F.E. Schasfoort, Femke, Utrecht
The costs of climate change related damage at city level: a rapid assessment tool for Dutch municipalities	MSc Van Bijsterveldt Mr, Menno, Wageningen
Nearly zero energy in existing built environments. Socio-economical evaluation of possible retrofitting strategies	Prof. Ferrante Ms, Annarita, Bologna
Soil Moisture as an Estimator for Crop Yield in Germany	Peichl Mr, Michael, Leipzig
Costs and Benefits of Adaptation Options – How Scale Levels and Normative Assumptions Can Change the Ranking of Alternatives	Dr. Hirschfeld Mr, Jesko, Berlin
Do We Need to Adapt to Heat Waves? Ascertaining General Equilibrium Impacts of Heat Waves and Adaptation to them in Switzerland	Erb Ms, Christin, Bern
Cost-benefit analysis in climate change: the use of participatory methodologies	ALVES Mr, FILIPE, LISBOA

## SESSION OUTLINE

The session deals with different economic models to assess the impacts of climate change and adaptation measures. Specifically, different regional scales and model types are presented to exemplify the richness of economic assessments and the variety of approaches and results. In terms of regional focus we start at the European level then show some national results before zooming into a few chosen regional examples. Most presentations concentrate on the effects of extreme weather events. Nevertheless, also incremental changes to the climate and their impacts will be discussed as well as issues beyond flooding as the main example for an extreme weather event.