

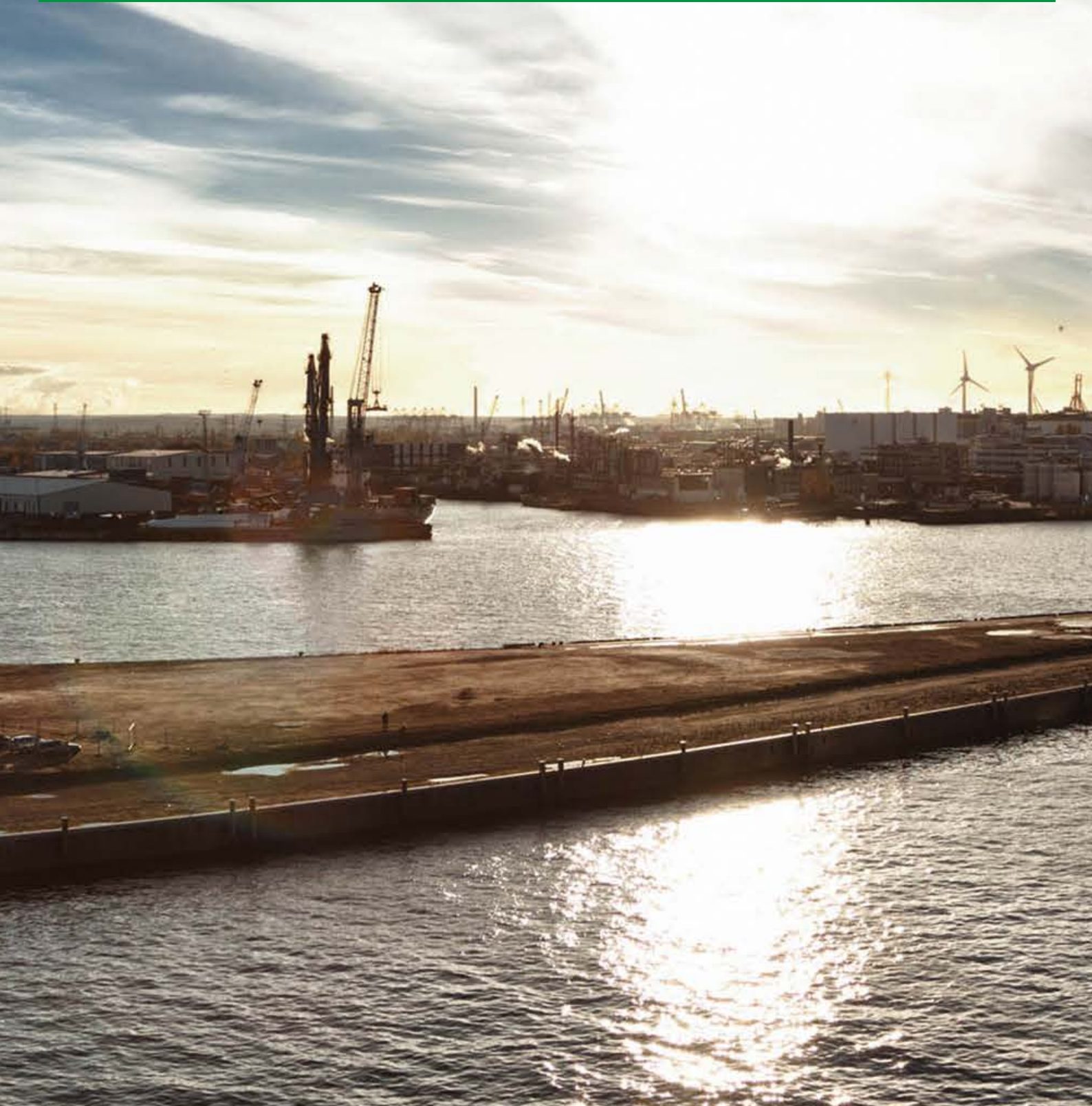


March 18 - 20

2013

European Climate Change Adaptation Conference

Integrating Climate into Action



SPONSORED BY THE



Federal Ministry
of Education
and Research



Hamburg

Science sessions	1	Climate vulnerability assessment	
	2	Risk assessment	
	3	Economics of adaptation	a) Methods including decision-making for adaptation b) Sectoral assessment of adaptation economic c) Instruments for adaptation
	4	Decision-making under uncertainty	a) Local water management b) Decision support tools c) Communication and perception of uncertainties d) Models and scenarios e) Improving resilience and stakeholder involvement
	5	Governance of adaptation	a) Barriers and opportunities to climate adaptation b) Adaptive water governance c) Institutional approaches to climate adaptation d) Regional and local climate adaptation governance
	6	Adaptation strategies and planning	a) On strategies b) On methods c) On national, regional d) Regional policies e) On cities f) On sectors
	7	Mainstreaming climate adaptation	a) Policy b) Implementation
	8	Adaptation cases studies: organisational, sectoral and regional	
	9	Monitoring and measuring adaptation	
	10	Impact and effectiveness studies	a) Impacts b) Adaptation
	11	Role of tools and knowledge in adaptation	a) Broad scale tools b) Adaptation tools and frameworks c) Climate information sharing and production d) Participatory methods
	12	Communicating impacts, vulnerability and adaptation	a) Communication via websites and portals b) Advisory services and participatory approaches c) Political and empowerment issues

Special science sessions	1	Climate vulnerability assessment	a) Regional climate change - impacts and vulnerabilities under 2°C-warming
	3	Economics of adaptation	a) Insurance and finance in climate change adaptation b) Institutional economics of climate change adaptation
	4	Decision-making under uncertainty	Climate vs. non-climate driven density of climate impact studies
	5	Governance of adaptation	a) Barriers to climate change adaptation: Cases and concepts b) Knowledge mismatches in governance of adaptation c) Organisational adaptation to climate change
	6	Adaptation strategies and planning	a) Transdisciplinary strategy development for adaptation in coastal protection b) Adaptive flood management
	11	Role of tools and knowledge in adaptation	a) MEDIATION (Methodology for Effective Decision-Making on Impacts and Adaptation) Cases and integrated methodology

Science-practice and practitioner sessions	1	climate vulnerability assessment	a) Risks from urban flooding - Interactive science and policy assessment b) Decision making for climate robust infrastructure
	3	Economics of adaptation	a) Challenges to respond to loss and damage of climate Change
	4	Decision-making under uncertainty	a) Decision making with incomplete data in forest adaptation to climate change b) Uncertainties in decision-making processes: Will guidelines help do the trick? c) Addressing uncertainties in national adaptation strategies e) From science and concepts to climate resilient development in developing countries
	5	Governance of adaptation	a) Local adaptation to flood risk. Lessons learned from Hamburg, Rotterdam and Dordrecht b) Climate adaption sciences meet stakeholders: Challenges of transdisciplinary research
	6	Adaptation strategies and planning	a) EU Cities Adapt – urban adaptation strategies b) Adaptive delta management and decisive points in climate change adaptation c) Building robust strategies for a climate proof fresh water supply d) Exploring biophysical and socio-economic perspectives for a robust ecological infrastructure
	7	Mainstreaming climate adaptation	a) Assessing options for governance in climate change adaptation from regional experiences b) From building capacity to taking action: lessons for an integrated approach c) Tapping Other Resources: of Practise d) Dealing with stormwater adaptation - lessons learned by water utilities
	11	Role of tools and knowledge in adaptation	a) Science-practice lab for decision support: the practice of 'serious gaming' b) How to create resilient storm surge protection using building eith nature concepts c) Planning climate adaptation in the energy sector
	I	Transnational cooperation	a) Share information on climate adaptation on a European and transnational scale b) Climate Change Adaptation in MOUNTain areas c) Lost in translation? Linkages between EU, macro-regional and national strategies
	IIa	Communication and Knowledge transfer	a) Bridging policies and local action: the 4-P Methodology for Climate Change Communication
	IIIa	Monitoring and evaluation	a) Monitoring of adaption At EU, national and local levels
	IV	Best Practices	a) Adaptation in Europe in practice: how did they do it? b) Adaptation of European Forests to Climate Change c) Designs boosting Urban Climate Change
	Va	Climate engineering	a) Climate Adaptation Engineering: Managing Climate Change by Engineering Solutions



ECCA

March 18 - 20

2013

European Climate Change Adaptation Conference

Integrating Climate into Action

Conference Programme

www.eccaconf.eu

Hosted by



Prof. Frans Berkhout
frans.berkhout@vu.nl

Florrie de Pater
florrie.de.pater@vu.nl



Gerlinde Löbkens
loebkens@tutech.de

Jürgen Becker
becker@tutech.de

TuTech Innovation GmbH
Harburger Schloßstrasse 6-12
21079 Hamburg, Germany

An initiative of four EU research projects:
RESPONSES, CLIMSAVE, MEDIATION and ClimateCost.

Table of Contents

Welcome	4
International Scientific Board	4
Local Organising Committee	4
Plenary Lectures	4
Exhibitors and Sponsors	5
General Information.....	6
Excursions.....	8
Extra Sessions	9
Timetable	10
Conference Programme.....	13
Conference Programme: Monday.....	13
Conference Programme: Tuesday.....	29
Conference Programme: Wednesday	55

Welcome

On behalf of the Steering Committee, it's a great pleasure to welcome you to the first European Climate Change Adaptation conference in Hamburg. ECCA2013 is an important new European arena for the exchange of scientific results about climate change adaptation and for debate about what this means for practical action on adaptation as a response to climate risks and opportunities. Science has played a key role in furthering our understanding of climate change and its many potential impacts. And people, civil society, companies and public authorities have begun to find ways of improving their resilience to climate change impacts. But we know that the dialogue between science and practice needs to be extended and deepened. The ECCA conference is all about encouraging a flow of ideas and about building and strengthening personal relationships which allows this flow of ideas. I invite you to play your full role in bringing new ideas and building relationships at ECCA. It's your conference!

Events like ECCA2013 rest on the goodwill and resources of many, many people and organizations. I'd like to thank the main sponsors of the conference: DG-Research and Innovation of the European Commission and the City of Hamburg; and for substantial financial support from the German Federal Ministry of Education and Research (BMBF). I'd also like to thank the other members of the Steering Committee: Jürgen Becker, Prof. Dr. Martin Claussen, Florrie de Pater, Dr. Benno Hain, Dr. Kirsten Holländer, Prof. Dr. Daniela Jacob, Gregor Laumann, Gerlinde Löbkens, Arne van Maydell, Helga Schenk and Dr. Wolfram Schimpf. Thanks also go to the International Scientific Board of ECCA, in particular Dr. Paula Harrison, Dr. Paul Watkiss and Dr. Rob Swart, and to the many reviewers of abstracts. Many members of the international board will be acting as convenors of sessions during ECCA and I want to thank them especially for their contribution.

Once again welcome, I really hope you have an enjoyable and inspiring experience at ECCA2013!

Prof. Frans Berkhout
 Chair, ECCA2013 Steering Committee

International Scientific Board

- Neil Adger, University of Exeter, United Kingdom
- Joe Alcamo, UNEP, Kenya
- Frans Berkhout, VU University Amsterdam, The Netherlands
- Guy Brasseur, Climate Service Center Hamburg, Germany
- Timothy Carter, SYKE, Helsinki, Finland
- Sergio Castellari, CMCC, Bologna, Italy
- Martin Claussen, Max-Planck-Institut und Universität Hamburg, Germany

- Joyeeta Gupta, VU University Amsterdam, The Netherlands
- Stéphane Hallegatte, World Bank, France
- Paula Harrison, University of Oxford, United Kingdom
- Ana Iglesias, Universidad Politecnica de Madrid, Spain
- Richard Klein, Stockholm Environment Institute, Sweden
- Zbigniew Kundzewicz, PIK, Germany
- Diana Liverman, University of Arizona, USA
- Jacqueline McGlade, EEA, Denmark
- Karen O'Brien, University of Oslo, Norway
- Claudia Pahl-Wostl, Universität Osnabrück, Germany
- Martin Parry, Imperial College London, United Kingdom
- Rob Swart, Wageningen University, The Netherlands
- Pier Vellinga, Wageningen University, The Netherlands
- Paul Watkiss, University of Oxford, United Kingdom

Local Organising Committee

- Frans Berkhout (chair), VU University Amsterdam, The Netherlands
- Jürgen Becker, TuTech Innovation GmbH, Hamburg, Germany
- Martin Claussen, Max-Planck-Institut und Universität Hamburg, Germany
- Gerlinde Löbkens, TuTech Innovation GmbH, Hamburg, Germany
- Arne von Maydell, TuTech Innovation GmbH, Hamburg, Germany
- Florrie de Pater, VU University Amsterdam, The Netherlands
- Helga Schenk, Behörde für Stadtentwicklung und Umwelt Hamburg, Germany
- Helmut Thamer, TuTech Innovation GmbH, Hamburg, Germany

Plenary Lectures

MAIN BUILDING Room 1

MONDAY, 18 MARCH, 11:30 - 12:00

Nigel Arnell, University of Reading - The scale of the challenge: uncertainty, the effects of mitigation policy, and the implications for adaptation

TUESDAY, 19 MARCH, 09:00 - 10:00

Christopher Field, Stanford University - How should extremes shape our approach to adaptation?

Holger Robrecht, ICLEI - Our future is not what it used to be: the role of knowledge in local climate adaptation

WEDNESDAY, 20 MARCH, 09:00 - 10:00

Diana Liverman, University of Arizona - Surviving and thriving in a warmer world: some challenges for adaptation

Stéphane Hallegatte, World Bank - Obstacles to adaptation: an economic perspective

Exhibitors



www.climate-service-center.de



www.klimzug.de



www.knowledgeforclimate.nl

RICARDO-AEA

www.ricardo-aea.com

Sponsors



www.bmbf.de



www.ec.europa.eu



www.english.hamburg.de



www.umweltbundesamt.de



www.uni-hamburg.de



www.unep.org/provia



www.knowledgeforclimate.nl



www.responsesproject.eu



www.climsave.eu



www.mediation-project.eu

ClimateCost

www.climatecost.cc

General Information

CONFERENCE VENUE

University of Hamburg
 Edmund-Siemers-Allee 1
 20146 Hamburg, Germany

The University is located 10 km from the airport and just 500 m from the train station of Hamburg-Dammtor, where most main lines stop.

THE BEST WAY

By subway

The subway (S-Bahn) line S1 operates every 10 min. between Hamburg Airport (Flughafen Hamburg) and central station (Hauptbahnhof) – a journey of only 25 min. The Hamburg Airport subway station is directly in front of the terminals and is easily reached by lift, escalator or stairs.

Central Station (Hauptbahnhof) ► Dammtor (Messe/CCH)
 Please change at central Station (Hauptbahnhof) from S1 to S11, S21 (direction: Elbgaustraße) or S31 (direction Altona). Trains are departing every 5-10 min. To “Dammtor” it takes about 3 min, from there it is a 5 min. walk to the conference venue.

Single trip ticket	Greater Hamburg Area	2,95 EUR
All-day ticket *	Greater Hamburg Area	7,10 EUR
9 am day ticket	Greater Hamburg Area	5,80 EUR
9 am group ticket	Greater Hamburg Area	10,40 EUR

* This ticket can be used for unlimited trips within one day

Buy single and day tickets from any bus driver or ticket machine.

A taxi from the airport to the University of Hamburg will cost approximately 25 EURO.





HOTELS

Participants staying at Elysée Hotel or Hotel Alster-Hof can walk to the University of Hamburg. This will take approximately 5-10 min. Most of the other hotels are located near the central station (Hauptbahnhof).

WEATHER

The weather in March is usually brisk. The expected temperatures are between 5-10° C during the day and near freezing point at night. Do not forget to bring a rain coat or umbrella. Please check weather forecasts in advance.

REGISTRATION

The registration desk is located in the main building right behind the main entrance and will open on Monday - Wednesday, 18 - 20 March from 08:00 to 18:00.

MESSAGE BOARD

A message board is located near the registration board.

PAYMENT

Participants who have not paid yet shall make their payment upon registration at the registration desk. We accept cash and credit cards.

NAME BADGE

A name badge will be provided to all participants. This badge will allow access to the sessions, lunches, coffee breaks and reception.

CERTIFICATE OF ATTENDANCE

A personal "certificate of attendance" will be provided to registered participants together with their conference registration package.

INTERNET ACCESS

WLAN Personal login data: The organising committee will provide you with an individual WLAN Internet access code if necessary. Please contact the registration office upon arrival at the conference.

ORAL PRESENTATIONS

Oral presentations in the parallel sessions start on Monday, 18 March, 13:00. Please hand over your presentation file to the responsible person in each room, at least 30 min. before your session starts. For the first sessions in the morning the presentation should be handed over at 8:30 am.

POSTER PRESENTATIONS

Posters will be displayed during the whole meeting. The poster discussion sessions will be held on Monday, 18 March and Tuesday, 19 March in the afternoon. The poster should be 90 cm wide and 130 cm high. Assistance and material for mounting the posters (tape etc.) will be provided at the registration desk.

OPENING CEREMONY

The opening ceremony will be held on Monday, 18 March, at 10:30 in room 1.

LUNCH

Monday ► Wednesday

Lunch/fingerfood will be served in the foyers in main building from 12:15 to 13:15.

RECEPTION

Monday, 18 March at 18:30 reception in the Town Hall hosted by the City of Hamburg.



Welcome address

Senator Jutta Blankau, Hamburg Ministry for Urban Development and Environment

You will find your personal invitation in your conference documents. Additionally keep your passport with you.

Town Hall doors open 18:00

Admission by presenting invitation only!

Bus transfer starts directly after the poster session.

CLOSING CEREMONY

The closing ceremony will take place in room 1 on Wednesday, 20 March from 13:15 to 14:45.

Excursions

Various excursions in Hamburg will be offered on Wednesday, 20 March after closing ceremony.

Due to the limited number of participants, all interested people are asked to register for the excursions on day one of the conference. Lists will be displayed at the registration.

TOUR 1: PUBLIC FLOOD PROTECTION IN HAMBURG

The guided tour Flood Protection in Hamburg takes visitors to selected places between the ancient buildings of Landungsbrücken and the areas of the Hafencity very recently built or being under construction. Different elements of the Hamburg flood protection will be explained. The excursion will provide insight in the challenge how to protect against flooding on a high safety level combined with the development of dense and attractive urban areas. It will be a walking tour.



Meeting point for transfer: 15:15 in front of the main building University of Hamburg, Edmund-Siemers-Allee 1

Start: in front of the U-/S-Bahn station Landungsbrücken at 15:45

End of tour: close to U-/S-Bahn station Landungsbrücken

Duration: round about two hours

Participants: max. 50

Important: The group will be divided: one tour will be guided in German and the other in English language!

TOUR 2: HAFENCITY HAMBURG

The ECCA participants will join the Hafencity GmbH expert team for an exciting guided tour through Europe's largest inner city development project. After a short introduction at the 8x4 metre 1:500 scale urban planning model of the construction site the guests will get the chance on the basis of already established building projects of such in progress for about two hours to live experience how modern urban planning issues are dealt with as well as to get in touch with innovative strategies that appertain to ecological sustainable development.



Meeting point for transfer: 15:15 in front of University of Hamburg main building, Edmund-Siemers-Allee 1

Start: Hafencity InfoCenter Kesselhaus, Am Sandtorkai 30, 20457 Hamburg at 15:45

End of tour: Hafencity Sustainability Pavillion OSAKA9, Osakaallee 9, 20457 Hamburg (at the Magdeburger Hafen), 17:45, U-Bahn station is within the range of vision

Duration: round about two hours

Participants: max. 40

TOUR 3: IBA INTERNATIONAL BUILDING EXHIBITION HAMBURG

Cities and Climate Change - explore the projects of the International Building Exhibition Hamburg

Would you like to obtain specific information about the activities and projects of IBA Hamburg? Would you like to find out more about the social, technical, cultural and environmental impulses in urban development? On a guided tour you have the possibility to learn more about the IBA Hamburg in general and to have a special focus on the key theme cities and climate change with its projects in the fields of climate mitigation and climate adaptation. It will be a bus tour with some stops.



Meeting point for transfer: 15:15 in front of main building University of Hamburg, Edmund-Siemers-Allee 1
Start: IBA DOCK, Am Zollhafen 12, 15:45
End of tour: IBA DOCK, Am Zollhafen 12, S-Bahn station Veddel is within the range of vision, from here a few min. to main station.
Duration: round about two hours
Participants: max. 50

TOUR 4: DKRZ - HIGH PERFORMANCE COMPUTING FOR EARTH SYSTEM RESEARCH

After a brief introduction to the climate system and its numerical modelling, the German Climate Computing Center (DKRZ) and its computer systems are presented. On the basis of numerous visualizations, application results are shown - specifically of recent results from simulations carried out by MPI-M and DKRZ with respect to the next IPCC report and in the context of the international Climate Model Intercomparison Project CMIP5. After the talk, participants will have the opportunity to join for a guided tour of the data center.

DKRZ, the German high performance computing center for climate research, provides the tools and the associated services which are needed to investigate the processes in the climate system: Computer power, data management and guidance to use these tools efficiently.



Meeting point: 15:15 in front of main building University of Hamburg, Edmund-Siemers-Allee 1. From here, it's a walk of 15 min. to DKRZ.
Location: DKRZ, Seminar Room 034 (ground floor), Bundesstraße 45a, 20146 Hamburg, closest U-Bahn Station is called Schlump
Duration: about two hours
Participants: max. 50

Extra Sessions

TUESDAY, 19 MARCH 2013, 15:15 - 16:15
EAST BUILDING, ROOM 15

CONNECT4CLIMATE: I°CHANGE WORKSHOP

Organizer: Joana Lopes, The World Bank /External Affairs Operational Communication

Connect4Climate (C4C) is a campaign, a coalition, and a community that cares about climate change.

Launched by the World Bank, the Italian Ministry of Environment, and the Global Environment Facility (GEF) in collaboration with more than 150 knowledge partners in September 2011, Connect4Climate (C4C) is a global partnership program dedicated to climate change communication.

In this session, Connect4Climate will invite 15 students from the Macromedia University of Communication (MHMK) to a very exciting one hour workshop on climate change communication. The students, supported by facilitators and media specialists, will create and present a storyboard to a 30-second video about climate change.

www.facebook.com/Connect4Climate
www.twitter.com/connect4climate
www.connect4climate.org

WEDNESDAY, 20 MARCH 2013, 12:15 - 13:15
EAST BUILDING, ROOM 15

THE EUROPEAN CLIMATE CHANGE ADAPTATION PLATFORM (CLIMATE –ADAPT) – WHAT IT CAN DO FOR YOU

Organizer: Jonathan M Perks, RICARDO-AEA, United Kingdom

In this session the Climate Change Adaptation Platform (CLIMATE-ADAPT) will be presented using interactive sessions and examples to show, how it can help policy makers at EU, national, regional and local levels access a wide range of resources to develop practical adaptation measures and policies. These resources include:

- A toolset to develop adaptation approaches
- Case studies to facilitate learning from experiences across Europe
- A searchable database containing over 1000 items including reports, information, maps, graphs, data sets and indicators
- Up-to-date information on national, transnational, regional local adaptation policies and activities
- An area for researchers and practitioners to share their information and experiences.

Science sessions		Special Science Sessions		Science-practice and practitioner sessions			
1	18 March, 13:00-14:45, Room 4 1.4.1 - 1.4.5						
1	18 March, 15:15-17:00, Room 4 2.4.1 - 2.4.5	1a	20 March, 10:30-12:15, Room 10 6.14.1 - 6.14.5	1a	20 March, 10:30-12:15, Room 12 6.10.1 - 6.10.4	1a	18 March, 13:00-14:45, Room 10 1.10.1 - 1.10.5
1	19 March, 10:30-12:15, Room 4 3.4.1 - 3.4.5			1b	19 March, 10:30-12:15, Room 11 3.12.1 - 3.12.3	1b	18 March, 15:15-17:00, Room 10 2.10.1 - 2.10.4
1	19 March, 13:15-15:00, Room 4 4.4.1 - 4.4.4					1c	18 March, 15:15-17:00, Room 13 2.13.1 - 2.13.4
2	19 March, 15:30-17:15, Room 4 5.4.1 - 5.4.6					1la	20 March, 10:30-12:15, Room 13 6.12.1 - 6.12.3
2	20 March, 10:30-12:15, Room 2 6.2.1 - 6.2.5						
3a	18 March, 13:00-14:45, Room 7 1.7.2 - 1.7.5	3a	19 March, 13:15-15:00, Room 9 4.9.1 - 4.9.4	3a	18 March, 15:15-17:00, Room 14 2.14.1 - 2.14.7	1lla	18 March, 13:00-14:45, Room 12 1.13.1 - 1.13.7
3b	18 March, 15:15-17:00, Room 7 2.7.1 - 2.7.6	3b	19 March, 15:30-17:15, Room 8 5.8.1 - 5.8.5				
3c	19 March, 10:30-12:15, Room 7 3.7.1 - 3.7.5						
4a	18 March, 13:00-14:45, Room 2 1.2.1 - 1.2.4	4a	19 March, 13:15-15:00, Room 8 4.8.1 - 4.8.6	4a	19 March, 13:15-15:00, Room 13 4.13.1 - 4.13.4	IVa	20 March, 10:30-12:15, Room 8 6.8.1 - 6.8.6
4b	18 March, 15:15-17:00, Room 2 2.2.1 - 2.2.5			4b	18 March, 13:00-14:45, Room 11 1.14.1 - 1.14.4	IVb	19 March, 15:30-17:15, Room 13 5.13.1 - 5.13.5
4c	19 March, 10:30-12:15, Room 2 3.2.1 - 3.2.5			4c	19 March, 15:30-17:15, Room 14 5.14.1 - 5.14.6	IVc	19 March, 10:30-12:15, Room 13 3.13.1 - 3.13.5
4d	19 March, 13:15-15:00, Room 2 4.2.1 - 4.2.5						
4e	19 March, 15:30-17:15, Room 2 5.2.1 - 5.2.6			4e	19 March, 10:30-12:15, Room 14 3.14.1 - 3.14.3		
5a	18 March, 13:00-14:45, Room 5 1.5.1 - 1.5.5	5a	18 March, 15:15-17:00, Room 12 1.8.1 - 1.8.6	5a	18 March, 13:00-14:45, Room 14 1.11.1 - 1.11.5	Va	19 March, 13:15-15:00, Room 12 4.12.1 - 4.12.6
5b	18 March, 15:15-17:00, Room 5 2.5.1 - 2.5.5	5b	18 March, 15:15-17:00, Room 9 2.9.1 - 2.9.4	5b	18 March, 13:00-14:45, Room 13 1.12.1 - 1.12.5	Va	19 March, 15:30-17:15, Room 12 5.12.1 - 5.12.5
5c	19 March, 10:30-12:15, Room 5 3.5.1 - 3.5.5	5c	19 March, 10:30-12:15, Room 9 3.9.1 - 3.9.5				
5d	19 March, 13:15-15:00, Room 5 4.5.1 - 4.5.5						
6a	18 March, 13:00-14:45, Room 1 1.1.1 - 1.1.5	6a	18 March, 15:15-17:00, Room 8 2.8.1 - 2.8.5	6a	19 March, 10:30-12:15, Room 10 3.10.1 - 3.10.4		
6b	18 March, 15:15-17:00, Room 1 2.1.1 - 2.1.6	6b	19 March, 10:30-12:15, Room 8 3.8.1 - 3.8.6	6b	19 March, 15:30-17:15, Room 11 5.11.1 + 5.11.2		
6c	19 March, 10:30-12:15, Room 1 3.1.1 - 3.1.5			6c	19 March, 13:15-15:00, Room 11 4.11.1 - 4.11.4		
6d	19 March, 13:15-15:00, Room 1 4.1.2 - 4.1.5			6d	19 March, 13:15-15:00, Room 14 4.14.1 - 4.14.4		
6e	19 March, 15:30-17:15, Room 1 5.1.1 - 5.1.6						
6f	20 March, 10:30-12:15, Room 1 6.1.1 - 6.1.5						
7a	19 March, 15:30-17:15, Room 5 5.5.1 - 5.5.6			7a	19 March, 15:30-17:15, Room 9 5.9.1 - 5.9.4		
7b	20 March, 10:30-12:15, Room 3 6.3.1 - 6.3.6			7b	20 March, 10:30-12:15, Room 14 6.9.1 - 6.9.7		
8	18 March, 13:00-14:45, Room 3 1.3.1 - 1.3.5			7c	18 March, 15:15-17:00, Room 11 2.11.1 - 2.11.3		
8	18 March, 15:15-17:00, Room 3 2.3.1, 2.3.2, 3.3.6, 2.3.4, 2.3.5			7d	19 March, 10:30-12:15, Room 12 3.11.1 - 3.11.6		
8	19 March, 10:30-12:15, Room 3 3.3.1, 3.3.3 - 3.3.5						
8	19 March, 13:15-15:00, Room 3 4.3.1 - 4.3.5						
8	19 March, 15:30-17:00, Room 3 5.3.1 - 5.3.7						
9	19 March, 15:30-17:00, Room 6 5.6.1 - 5.6.5						
9	20 March, 10:30-12:15, Room 4 6.4.1 - 6.4.4						
10a	19 March, 13:15-15:00, Room 6 4.6.1 - 4.6.5						
10b	20 March, 10:30-12:15, Room 5 6.5.1 - 6.5.5			11a	19 March, 13:15-15:00, Room 10 4.10.1, 4.10.2, 4.10.4, 4.10.5		
11a	18 March, 13:00-14:45, Room 6 1.6.1 - 1.6.5	11a	18 March, 13:00-14:45, Room 9 1.9.1 - 1.9.4	11a	19 March, 15:30-17:15, Room 10 5.10.2 + 5.10.3		
11b	18 March, 15:15-17:00, Room 6 2.6.1 - 2.6.5			11b	20 March, 10:30-12:15, Room 11 6.11.1 - 6.11.3		
11c	19 March, 10:30-12:15, Room 6 3.6.2 - 3.6.5			11c	20 March, 10:30-12:15, Room 9 6.13.1 - 6.13.4		
11d	20 March, 10:30-12:15, Room 6 6.6.1 - 6.6.5						
12a	19 March, 13:15-15:00, Room 7 4.7.1 - 4.7.5						
12b	19 March, 15:30-17:15, Room 7 5.7.1 - 5.7.5						
12c	20 March, 10:30-12:15, Room 7 6.7.1 - 6.7.5						

18 March 2013

	08:00	08:30	09:00	09:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	19:00	19:30	20:00	20:30																				
Registration	Registration																																													
Exhibition	Exhibition/ all-day																																													
Poster Exhibition	Poster Exhibition/ all-day																																													
Room 1							Plenary Session		Lunch		6a	1.1.1 - 1.1.5		Break		6b	2.1.1 - 2.1.5		Poster Exhibition/ 1. Poster Discus.				Reception in Hamburg Town Hall																							
Room 2											4a	1.2.1 - 1.2.4				4b	2.2.1 - 2.2.5																													
Room 3											8	1.3.1 - 1.3.5				8	2.3.1, 2.3.2 3.3.6, 2.3.4, 2.3.5																													
Room 4											1	1.4.1 - 1.4.5				1	2.4.1 - 2.4.5																													
Room 5											5a	1.5.1 - 1.5.5				5b	2.5.1 - 2.5.5																													
Room 6											11a	1.6.1 - 1.6.5				11b	2.6.1 - 2.6.5																													
Room 7											3a	1.7.2 - 1.7.5				3b	2.7.1 - 2.7.6																													
Room 8																6a	2.8.1 - 2.8.5																													
Room 9											11a	1.9.1 - 1.9.4				5b	2.9.1 - 2.9.4																													
Room 10											1a	1.10.1 - 1.10.5				1b	2.10.1 - 2.10.4																													
Room 11											4b	1.14.1 - 1.14.4				7c	2.11.1 - 2.11.3																													
Room 12											11a	1.13.1 - 1.13.7				5a	1.8.1 - 1.8.6																													
Room 13											5b	1.12.1 - 1.12.5				1c	2.13.1 - 2.13.4																													
Room 14											5a	1.11.1 - 1.11.5				3a	2.14.1 - 2.14.7																													

19 March 2013

	08:00	08:30	09:00	09:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30																							
Exhibition	Exhibition/ all-day																																												
Poster Exhibition	Poster Exhibition/ all-day																																												
Room 1				Plenary Session	Break	6c	3.1.1 - 3.1.5		Lunch		6d	4.1.2 - 4.1.5		Break		6e	5.1.1 - 5.1.6		Poster Exhibition/ 2. Poster Discus.																										
Room 2						4c	3.2.1 - 3.2.5				4d	4.2.1 - 4.2.5				4e	5.2.1 - 5.2.6																												
Room 3						8	3.3.1, 3.3.3 - 3.3.5				8	4.3.1 - 4.3.5				8	5.3.1 - 5.3.7																												
Room 4						1	3.4.1 - 3.4.5				1	4.4.1 - 4.4.4				2	5.4.1 - 5.4.6																												
Room 5						5c	3.5.1 - 3.5.5				5d	4.5.1 - 4.5.5				7a	5.5.1 - 5.5.6																												
Room 6						11c	3.6.2 - 3.6.5				10a	4.6.1 - 4.6.5				9	5.6.1 - 5.6.5																												
Room 7						3c	3.7.1 - 3.7.5				12a	4.7.1 - 4.7.5				12b	5.7.1 - 5.7.5																												
Room 8						6b	3.8.1 - 3.8.6				4a	4.8.1 - 4.8.6				3b	5.8.1 - 5.8.5																												
Room 9						5c	3.9.1 - 3.9.5				3a	4.9.1 - 4.9.4				7a	5.9.1 - 5.9.4																												
Room 10						6a	3.10.1 - 3.10.4				11a	4.10.1, 4.10.2, 4.10.4, 4.10.5				11a	5.10.2 + 5.10.3																												
Room 11						1b	3.12.1 - 3.12.3				6c	4.11.1 - 4.11.4				6b	5.11.1 + 5.11.2																												
Room 12						7d	3.11.1 - 3.11.6				Va	4.12.1 - 4.12.6				Va	5.12.1 - 5.12.5																												
Room 13						IVc	3.13.1 - 3.13.5				4a	4.13.1 - 4.13.4				IVb	5.13.1 - 5.13.5																												
Room 14						4e	3.14.1 - 3.14.3				6d	4.14.1 - 4.14.4				4c	5.14.1 - 5.14.6																												

20 March 2013

	08:00	08:30	09:00	09:30	10:00	10:30	11:00	11:30	12:00	12:30	13:00	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00				
Room 1				Plenary Session	Break	6f	6.1.1 - 6.1.5		Lunch		Plenary Session		Break			Excursions									
Room 2						2	6.2.1 - 6.2.5																		
Room 3						7b	6.3.1 - 6.3.6																		
Room 4						9	6.4.1 - 6.4.4																		
Room 5						10b	6.5.1 - 6.5.5																		
Room 6						11d	6.6.1 - 6.6.5																		
Room 7						12c	6.7.1 - 6.7.5																		
Room 8						IVa	6.8.1 - 6.8.6																		
Room 9						11c	6.13.1 - 6.13.4																		
Room 10						1a	6.14.1 - 6.14.5																		
Room 11						11b	6.11.1 - 6.11.3																		
Room 12						1a	6.10.1 - 6.10.4																		
Room 13						IIa	6.12.1 - 6.12.3																		
Room 14						7b	6.9.1 - 6.9.7																		

MONDAY, 18 MARCH 2013

08:00 - 18:00	Registration
09:00 - 18:00	Exhibitor
09:00 - 18:00	Poster Exhibition
10:30 - 11:30	<ul style="list-style-type: none">• Welcome by Rosemarie Mielke, Vice President Universität Hamburg• Welcome by Olaf Scholz, Mayor of Hamburg• Welcome by Gisela Helbig, Federal Ministry of Education and Research (BMBF), Head of division Global Change• Andrea Tilche, Acting-Director, Dir. I - Environment, European Commission DG Research & Innovation• Jacqueline McGlade, Executive Director European Environment Agency (EEA)
11:30 - 12:00	Plenary lecture: Nigel Arnell, University of Reading "The scale of the challenge: uncertainty, the effects of mitigation policy, and the implications for adaptation"
12:00 - 13:00	Lunch
13:00 - 14:45	Parallel sessions A Science sessions Special science sessions Science-practice and practitioner sessions
14:45 - 15:15	Coffee Break
15:15 - 17:00	Parallel sessions B Science sessions Special science sessions Science-practice and practitioner sessions
17:00 - 17:45	1 st Poster session and Coffee Break
18:30 - 20:30	Reception in the Town Hall hosted by the City of Hamburg Welcome address: Senator Jutta Blankau, Hamburg Ministry for Urban Development and Environment

PARALLEL SESSIONS A MONDAY, 13:00 - 14:45

1	ROOM 4	CLIMATE VULNERABILITY ASSESSMENT	
	Chair	Daniela Jacob, Climate Service Center (CSC), Hamburg, Germany / Tobias Lung, Joint Research Centre, European Commission, Ispra (VA), Italia	
		Author	Title
	1.4.1	Jan-Olaf Meynecke, Griffith University / Australian Rivers Institute, Australia	Ocean acidification – impacts and opportunities for shell fish aquaculture
	1.4.2	Yaron Hershkovitz, Universität Duisburg-Essen / Aquatische Ökologie, Germany	Vulnerability of European aquatic ecosystems to climate change: the use of biological indicators as an assessment tool
	1.4.3	Martin Potthoff, University of Göttingen / Centre of Biodiversity and sustainable Land use, Germany	Challenges for dairy farming under climate change in Central Europe – Results from the Lower-Saxony KLIFF-research framework
	1.4.4	Natalie Trapp, University of Hamburg / Research Unit Sustainability and Global Change, Germany	Climate Effects on the Technical Efficiency in European Farming
	1.4.5	João Rolim, School of Agronomy (ISA), Technical University of Lisbon / Department of Sciences and Biosystems Engineering, Portugal	Assessment of climate change impacts on irrigation systems in southern Portugal

3a	ROOM 7	ECONOMICS OF ADAPTATION - METHODS INCLUDING DECISION-MAKING FOR ADAPTATION	
	Chair	Stéphane Hallegatte, World Bank Group, France/Paul Watkiss, Paul Watkiss Associates, Oxford, United Kingdom	
		Author	Title
	1.7.2	Alistair Hunt, Paul Watkiss Associates, Great Britain	The use of new economic decision support tools for adaptation assessment: review, application and case study examples towards guidance on applicability
	1.7.3	Michalis Skourtos, University of Aegean/ Environment, Greece	Internalizing cross sectoral effects into cost-effectiveness adaptation analysis
	1.7.4	Clemens Heuson, Helmholtz Centre for Environmental Research – UFZ / Economics, Germany	Efficient public adaptation to climate change – An investigation of drivers and barriers from a Public Choice perspective [Special Session on Barriers of Adaptation]
	1.7.5	Daniel Lincke, Global Climate Forum / Adaptation and Social Learning, Germany	Global coastal flood risk and adaptation cost under sea-level rise: an uncertainty analysis

4a	ROOM 2	DECISION-MAKING UNDER UNCERTAINTY - LOCAL WATER MANAGEMENT	
	Chair	Andries Hof, PBL, The Netherlands Environmental Assessment Agency, Bilthoven, The Netherlands / Tony Patt, IIASA - International Institute for Applied Systems Analysis, Wien, Austria	
		Author	Title
	1.2.1	Carlo Giupponi, Ca' Foscari University and CMCC / Economics, Italy	Multi-agent integrated agro-economic simulation of irrigation water demand with climate services for adaptation and water saving
	1.2.2	Peter M. Rudberg, Stockholm Environment Institute, Sweden	Beyond generic adaptive capacity: exploring the adaptation space of the water supply and wastewater sector of the Stockholm region, Sweden
	1.2.3	Marjolijn Haasnoot, Deltares, The Netherlands	Exploring adaptation pathways for decision making under uncertainty: a Dutch water management example
	1.2.4	Jeroen Kluck, Amsterdam University of Applied Sciences / Civil Engineering, The Netherlands	Anticipating extreme showers in urban areas, dealing with uncertainties

5a	ROOM 5	GOVERNANCE OF ADAPTATION - BARRIERS AND OPPORTUNITIES TO CLIMATE ADAPTATION	
	Chair	Dave Huitema, Vrije Universiteit Amsterdam, The Netherlands / Peter Driessen, Utrecht University, The Netherlands	
		Author	Title
	1.5.1	Frans Berkhout, VU University / Institute for Environmental Studies (IVM), The Netherlands	Limits to adaptation
	1.5.2	Sandy Bisaro, Global Climate Forum / Adaptation and Social Learning, Germany	Adaptation governance: identifying and addressing institutional and behavioral barriers to adaptation
	1.5.3	Grit Martinez, Ecologic Institute, Germany	The influence of local cultural values on the governance of adaptation
	1.5.4	Swenja Surminski, London School of Economics / Centre for Climate Change Economics and Policy, Great Britain	Evidence of private sector adaptation? The case of the insurance industry
	1.5.5	Julie Snorek, United Nations University / Institute for Environment and Human Security, Germany	Divergent adaptation to climate change and changes in ecosystem services: A pastoral-agricultural case study of Niger

6a	ROOM 1	ADAPTATION STRATEGIES AND PLANNING - ON STRATEGIES	
	Chair	Jill Jäger, Martin-Luther-Universität Halle-Wittenberg, Halle, Germany / Martin Parry, Imperial College London, United Kingdom	
		Author	Title
	1.1.1	Emma Tompkins, University of Southampton / Geography & Environment, Great Britain	Climate change 'triple wins': mapping the linkages between climate change adaptation, mitigation and development
	1.1.2	Ian Holman, Cranfield University / Environmental Science and Technology Department, Great Britain	Evaluation of the potential for adaptation to offset the cross-sectoral impacts of climate change on European natural resource sectors

1.1.3	Karen O'Brien, University of Oslo / Dept. of Sociology and Human Geography, Norway	Do we have the courage to change? Adapting to climate change from the "inside-out"
1.1.4	Asuncion Lera St. Clair, CICERO, Norway	Transformational Communities
1.1.5	Friedrich Krebs, Centre for Environmental Systems Research, Germany	Modelling the provision of adaptation public goods: The case of neighbourhood support during heat waves

8 ROOM 3 ADAPTATION CASES STUDIES: ORGANISATIONAL, SECTORAL AND REGIONAL

Chair	Martina Floerke, Universität Kassel, Germany / Karl-Heinz Simon, Wissenschaftliches Zentrum für Umweltsystemforschung, Kassel, Germany	
	Author	Title
1.3.1	Tsung-Ting Ko, Helmholtz-Zentrum Geesthacht / Institute of Coastal Research, Germany	Lessons from relocating coastal villages: An example from Taiwan
1.3.2	Jürgen Scheffran, University of Hamburg / Institute of Geography, KlimaCampus Hamburg, Germany	Migration and Climate Adaptation: Cases in Northwestern Africa
1.3.3	Hartmut Fünfgeld, RMIT University / School of Global, Urban and Social Studies, Australia	Social learning and organisational adaptation to climate change in the non-governmental sector: preliminary findings from an Australian study
1.3.4	Ines Omann, Sustainable Europe Research Institute / Quality of Life, Austria	Human and Social Capital for Climate Change Adaptation in Austrian communities
1.3.5	Chizoba Chinweze, Chemtek Associates / Environment/Research & Development, Nigeria	Traditional Knowledge in Climate Change Adaptation - Anambra State, Nigeria Case Study

11a ROOM 6 ROLE OF TOOLS AND KNOWLEDGE IN ADAPTATION - BROAD SCALE TOOLS

Chair	Paula Harrison, University of Oxford, Great Britain	
	Author	Title
1.6.1	Rob Lokers, Wageningen University and Research / Alterra, The Netherlands	The European Climate Adaptation Platform (CLIMATE-ADAPT)
1.6.2	Paula Harrison, University of Oxford / Environmental Change Institute, Great Britain	Participatory Integrated Assessment Tools for Exploring Cross-sectoral Climate Change Impacts, Adaptation and Vulnerability: The CLIMSAVE Integrated Assessment Platform
1.6.3	Markus Wrobel, Potsdam Institute for Climate Impact Research (PIK) / Research Domain II: Climate Impacts & Vulnerabilities, Germany	The MEDIATION Common Platform: towards systematic interactive access to information on climate change adaptation related tasks, methods, tools, and case studies
1.6.4	Cynthia Rosenzweig, Columbia University / Center for Climate Systems Research, USA	Cities as 'First Responders': The First UCCRN Assessment Report on Climate Change and Cities (ARC3), and the Process Towards the Second Assessment Report, ARC3-2
1.6.5	Carlo Giupponi, Ca' Foscari University and CMCC / Economics, Italy	Stand alone and web based decision support systems for climate change adaptation: the ClimWatAdapt Project (Climate Adaptation – modelling water scenarios and sectoral impacts)

11a ROOM 9 ROLE OF TOOLS AND KNOWLEDGE IN ADAPTATION - MEDIATION (METHODOLOGY FOR EFFECTIVE DECISION-MAKING ON IMPACTS AND ADAPTATION) CASES AND INTEGRATED METHODOLOGY

The heterogeneity of adaptation situations implies a variety of different tasks to be addressed by researchers and policy-makers, depending on the situation, and the specifics of a particular case. Adaptation and related concepts such as vulnerability and adaptive capacity provide little guidance as to how the diverse tasks relate to one and other, how to prioritise between tasks, and to evaluate results. Mediation (Methodology for Effective Decision-Making on Impacts and Adaptation) develops an integrated methodology that identifies adaptation tasks and maps them. Important questions addressed in the project are: i) what are salient tasks to be addressed to advance adaptation, and how can they be identified? ii) What research methods are appropriate to address adaptation tasks? iii) how can the match between research methods and adaptation tasks be improved? We will discuss and reflect on experiences in case studies on appropriateness of methods applied, e.g. cost-benefit analysis, social-institutional analysis, to addressing problems in advancing adaptation.

Organizer	Sandy Bisaro, Global Climate Forum (GCF), Berlin, Germany	
Chair	Sandy Bisaro, Global Climate Forum (GCF), Berlin, Germany	
	Author	Title
1.9.1	Consuelo Varela-Ortega, Universidad Politécnica de Madrid / Department of Agricultural Economics and Social Sciences, Spain	Analysing adaptation to climate change in the water and the agricultural sectors in the Spanish Guadiana basin
1.9.2	Erik van Slobbe, Wageningen University and Research / Earth System Science Group, The Netherlands	Adaptation turning points in the Rhine
1.9.3	Miro Migliavacca, European Commission DG-JRC / Institute for Environment and Sustainability, Italy	Forest Fires and Adaptation Options in Europe
1.9.4	Anna Tainio, Finnish Environment Institute (SYKE) / Environmental Policy Centre, Finland	Biodiversity conservation for Finnish semi-natural grasslands in a changing climate

4b ROOM 11 DECISION-MAKING UNDER UNCERTAINTY - UNCERTAINTIES IN DECISION-MAKING PROCESSES: WILL GUIDELINES HELP DO THE TRICK?

The CIRCLE-2 – Joint Initiative on Climate Uncertainties is dealing with climate change uncertainties in support of adaptation decision-making and communicating about this. One of the main goals of the initiative is to develop and publish a ‘Guidance’ on uncertainty in adaptation decision-making, supported by practical case-studies where dealing with uncertainties was successful. The case-studies include projects in the field of infrastructure, water management, disaster risk reduction, finance, biodiversity, marine and fisheries, health, coastal areas, agriculture and forestry. In this session a draft version of the ‘Guide’ will be presented and discussed. The outcome of the discussion will serve to improve the guidance in order to ensure that it is tailored to meet the goals of decision and policy-makers. The main goal of the session is to engage scientists and practitioners in the development of the guidance to ensure that the guide is tailored to meet their needs!

Organizer	Ana Rovisco, University of Lisbon, Portugal	
Chair	Tiago Capela Lourenço, University of Lisbon, Portugal	
	Author	Title
	Tiago Capela Lourenço / Ana Rovisco, University of Lisbon, Portugal	
	Annemarie Groot, Wageningen UR, The Netherlands	
	Roger Street, UKCIP, United Kingdom	
	Leendert van Bree, The Netherlands Environmental Assessment Agency	

5a ROOM 14 GOVERNANCE OF ADAPTATION - LOCAL ADAPTATION TO FLOOD RISK. LESSONS LEARNED FROM HAMBURG, ROTTERDAM AND DORDRECHT

Urban regions in the EU face increasing flood risks due to urbanization and the effects of climate change. In national, regional and local policies, attempts are made to diversify and align different flood risk strategies, including risk prevention, flood defence, mitigation, preparation and recovery. Front-runners in the implementation of these strategies are Hamburg, Rotterdam and Dordrecht. Hamburg has an impressive tradition with integrated flood risk management in HafenCity. Rotterdam developed a strategy to reduce flood risk of the existing flood prone urban areas by integrating flood risk management with urban redevelopment processes. Dordrecht developed a multi-layered strategy for flood risk management. These cases are used for a discussion with the audience about best practices and remaining challenges regarding integrating flood risk management strategies in urban development. The discussion will focus on how to link short-term area development with long-term flood risk safety, considering aspects such as the distribution of responsibility between public and private parties, financing and legislation. The remaining questions related to flood risk governance will be further investigated in the STAR-FLOOD project.

Organizer	Tom Raadgever, Grontmij, The Netherlands / Peter van Veelen, Rotterdam/TU-Delft, The Netherlands / Jan Moritz Müller, LSBG Hamburg, Germany	
Chair	Peter Driessen, University of Utrecht, The Netherlands	
	Author	Title
	Han Meyer, TU Delft, The Netherlands	Common challenges of the Elbe and Rijnmond estuary, results of the IPDD project. WP6 comparing deltas
	Jan Moritz Müller, LSBG Hamburg	Experiences with flood protection based on private responsibility and public safety at the example of the HafenCity in Hamburg
	Peter van Veelen, Municipality Rotterdam / TU Delft, The Netherlands	Governance aspects of local adaptation as a future flood risk strategy in urban redevelopment processes in Rotterdam
	Ellen Kelder, Municipality Dordrecht	Self reliant Island of Dordrecht
	Tom Raadgever, Grontmij, The Netherlands	STAR-FLOOD: Addressing flood risk governance challenges

5b ROOM 13 GOVERNANCE OF ADAPTATION - CLIMATE ADAPTION SCIENCES MEET STAKEHOLDERS: CHALLENGES OF TRANSDISCIPLINARY RESEARCH

Transdisciplinary research refers to co-creation of knowledge; scientists and stakeholders working together on producing knowledge. Transdisciplinarity includes aspects of organising the research structure, the process and specific forms of actor participation. How can the different logics of research and practice be brought together and produce synergies by developing a joint research process, organising knowledge transfer, and reflecting all this in a jointly organised monitoring and evaluation procedure? The session focuses on transdisciplinarity as a methodological challenge for climate adaptation related research, thereby examining potentials and restrictions as well as good practices and possible problem solutions. We would like to share experiences with scientists and practitioners who have experimented with new forms of science-practice interrelations in climate adaptation research or neighbouring fields. Aims of this session are: raising awareness about potentials, restrictions and needs of transdisciplinary research on climate adaptation and identifying cutting-edge practices and related experiences regarding conceptual approaches and methods.

Organizer	Jörg Knieling, HafenCity University Hamburg, Germany	
Chair	Jörg Knieling, HafenCity University Hamburg, Germany	
	Author	Title
	Matthias Bergmann, ISOE Institute for Social-Ecological Research, Frankfurt, Germany	Methods and Reflections on Transdisciplinary Research
	Hetty Klavers, Director of Deltaprogram IJsselmeer, The Netherlands	Perception of transdisciplinary research in Knowledge for Climate from a Practitioners View
	Jörg Knieling, HafenCity University Hamburg, Germany	Transdisciplinary Research in Climate Adaptation: Perception of transdisciplinary research in KLIMZUG-NORD from a Researchers View
	Helga Schenk, Ministry of Urban Development and Environment Hamburg, Germany	Perception of transdisciplinary research in KLIMZUG-NORD from a Practitioners View
	Katrien Termeer, Wageningen UR, The Netherlands	Perception of transdisciplinary research in Knowledge for Climate from a Researchers View

1a ROOM 10 TRANSNATIONAL COOPERATION - SHARE INFORMATION ON CLIMATE ADAPTATION ON A EUROPEAN AND TRANSNATIONAL SCALE

After publication by the EU White Paper on climate change adaptation, mainstreaming of adaptation in EU policies has gained even more momentum and is set for further attention with the upcoming publication of the EU Adaptation Strategy. Thirteen member countries of the European Environment Agency (EEA) adopted national adaptation strategies and some have national action plans in place. CIRCLE-2 has been focusing on transnational knowledge and information sharing in relation to national and regional strategies, plans and diverse adaptation efforts. The European Climate Adaptation Platform (Climate-ADAPT) was developed and launched in March 2012 as a joint activity between the European Commission and the EEA. It is a publicly accessible, web-based platform, designed to support policy-makers at EU, national, regional and local levels in the development of climate change adaptation measures and policies. The aim of this session is to explore how sharing of information on climate change impacts, vulnerability and adaptation strategies across Europe can be improved by involving researchers ('providers'), boundary organisations (e.g. EEA), networks (e.g. CIRCLE-2) and policymakers.

Organizer	Marcus Leitner, Environment Agency Austria / André Jol, European Environment Agency (EEA), Denmark	
Chair	Sabine McCallum / André Jol, European Environment Agency (EEA)	
	Author	Title
	Stéphane Isoard, European Environment Agency (EEA), Denmark	
	Markus Leitner, Environment Agency Austria, EAA /CIRCLE-2	
	Andrea Prutsch, Environment Agency Austria, EAA, Austria	
	Szymon Tumielewicz, Ministry of the Environment, Poland	
	Sergio Castellari, Centro Euro-Mediterraneo sui Cambiamenti Climatici, CMCC, Italy	

IIIa ROOM 12 MONITORING AND EVALUATION - MONITORING OF ADAPTION AT EU, NATIONAL AND LOCAL LEVELS

A number of countries are taking action to assess their progress on adaptation through structured evaluation and the development of adaptation indicators. For example, in the United Kingdom, the Committee for Climate Change has a statutory obligation to assess national exposure to climate change impacts. Monitoring of adaptation is a new field, with a number of challenges including: how to reconcile short term monitoring possibilities with long term goals; and how to deal with future uncertainties and potential regime shifts. A number of frameworks for monitoring of adaptation have been developed, but they are hardly applied yet and there is no common ground for monitoring of adaptation. In this session we will introduce several frameworks. Next we will expand on the identification of indicators. Finally we will discuss the main challenges of monitoring of adaptation. A panel will discuss the monitoring needs at different levels from the EU to the local. Aims of the session are to discuss the main challenges of monitoring of adaptation and to identify the monitoring needs at different levels from EU to local.

Organizer	Judith Klostermann, Wageningen UR, The Netherlands / Jelle van Minnen, PBL, The Netherlands	
Chair	Judith Klostermann, Wageningen UR, The Netherlands	
	Author	Title
	Kaj van de Sandt, Wageningen UR, The Netherlands	Main challenges for monitoring adaptation and overview of frameworks
	Mike Harley, Climate Resilience Limited, United Kingdom	Process- and outcome-based indicators
	Jean Palutikof, Griffith University, Australia	Indicators of adaptive capacity, resilience and vulnerability
	Hans-Martin Füssel, European Environment Agency	panel
	Rob Schoonman, Ministry of Infrastructure and Environment, The Netherlands	panel
	Sebastian Catovsky, United Kingdom Committee on Climate Change, United Kingdom	panel
	Manfred Born, Metropolitan Region Bremen-Oldenburg, Germany	panel

Parallel sessions B MONDAY, 15:15 - 17:00

1	ROOM 4	CLIMATE VULNERABILITY ASSESSMENT	
	Chair	Daniela Jacob, Climate Service Center (CSC), Hamburg, Germany / Tobias Lung, Joint Research Centre, European Commission, Ispra (VA), Italia	
		Author	Title
	2.4.1	Frans van de Ven, Deltares / Urban Water Management, The Netherlands	Climate vulnerability assessment for urban areas in The Netherlands
	2.4.2	Stefan Fronzek, Finnish Environment Institute (SYKE) / Climate Change Programme, Finland	Mapping cold and heat excess mortality in Finland under future climate
	2.4.3	Nishit Pandya, Center for Environmental Planning and Technology (CEPT) University / Faculty of Sustainable Environment & Climate Change, India	A Climate Vulnerability and Risk Assessment for the city of Rajkot
	2.4.4	Julia Kowalewski, Hamburg Institute of International Economics / Environment and Climate, Germany	Developing an index for the economic susceptibility to climate change: the example of the Hamburg Metropolitan Region
	2.4.5	Martin Dubrovsky, Mendel University / Institute for Agrosystems and Bioclimatology, Czech Republic	Developing Reduced-form Climate Scenario Ensembles for the use in a Participative Climate Change Impact/Adaptation Study

3b	ROOM 7	ECONOMICS OF ADAPTATION - SECTORAL ASSESSMENT OF ADAPTATION ECONOMIC	
	Chair	Stéphane Hallegatte, World Bank Group, France / Paul Watkiss, Paul Watkiss Associates, Oxford, United Kingdom	
		Author	Title
	2.7.1	Sally Brown, University of Southampton and Tyndall Centre for Climate Change Research / Faculty of Engineering and the Environment, Great Britain	Costs and benefits of adaptation to rising sea levels in the EU throughout the 21st century
	2.7.2	Anita Wreford, SRUC / Land Economy and Environment, Great Britain	Exploring the cost-effectiveness of adaptation decisions in agriculture
	2.7.3	Väinö Nurmi, Finnish Meteorological Institute / Research unit on socioeconomic impacts of climate change, Finland	Green roofs as an urban adaptation measure: Cost-benefit analysis
	2.7.4	Athanasios Votsis, Finnish Meteorological Institute / Research group on socioeconomic impacts of climate change, Finland	Spatial effects of ecosystem service variation on urban real estate values under a changing climate
	2.7.5	Chethika Abenayake, Lecturer / University of Moratuwa, Sri Lanka	Climate change adaptation as a tool to improve eco-system services; a case of Green Belt re-designs in Batticaloa City, Sri Lanka
	2.7.6	Alistair Hunt, University of Bath / Economics, Great Britain	Cost-Benefit Analysis and Adaptation: An Health Sector Application in the Context of Heat-waves

4b	ROOM 2	DECISION-MAKING UNDER UNCERTAINTY - DECISION SUPPORT TOOLS	
	Chair	Andries Hof, PBL, The Netherlands Environmental Assessment Agency, Bilthoven, The Netherlands / Tony Patt, IIASA - International Institute for Applied Systems Analysis, Wien, Austria	
		Author	Title
	2.2.1	Suzy Mc Ennis, CETaqua, Water Technology Center, Spain	Evaluation of adaptation options under global change uncertainty: an integrated tool for water resources management
	2.2.2	Yingjiu Bai, Graduate School of Media and Governance / Keio University, Japan	A GIS-based approach to adaptation to regional climate change for decision-making by local government: Case study of Okutama-machi in Tokyo, Japan
	2.2.3	Nana Karlstetter, Carl von Ossietzky University of Oldenburg / Business Administration, Economics and Law, Germany	Climate adapted transition in land use – a GIS-based adaptive management approach
	2.2.4	Oliver Gebhardt, Helmholtz Centre for Environmental Research - UFZ / Department of Economics, Germany	Decision support for climate change adaptation under uncertainty
	2.2.5	Enno Eiben, Chamber of Agriculture Lower Saxony / District Office Uelzen, Germany	A farm advisory system model

5b	ROOM 5	GOVERNANCE OF ADAPTATION - ADAPTIVE WATER GOVERNANCE	
	Chair	Dave Huitema, Vrije Universiteit Amsterdam, The Netherlands / Peter Driessen, Utrecht University, The Netherlands	
		Author	Title
	2.5.1	Patrick Huntjens, Water Partner Foundation, The Netherlands	The Governance of Climate Adaptation in the Mekong and Rhine deltas
	2.5.2	Elke Herrfahrdt-Pähle, German Development Institute / Environmental Policy and Management of Natural Resources, Germany	Governing water resources adaptively: strengths and weaknesses of current water governance concepts
	2.5.3	Art Dewulf, Wageningen University / Public Administration and Policy group, The Netherlands	The governance implications of adaptive delta management
	2.5.4	Chang Ching-Cheng, National Central University / Center for Environmental Studies, Taiwan	Local experience on living with floods: Evidence from a Taiwanese fishing village
	2.5.5	Wiebren Kuindersma, WUR / Alterra, The Netherlands	Participatory monitoring as a tool for adaptive water governance

6b	ROOM 1	ADAPTATION STRATEGIES AND PLANNING - ON METHODS	
	Chair	Jill Jäger, Martin-Luther-Universität Halle-Wittenberg, Halle, Germany / Martin Parry, Imperial College London, United Kingdom	
		Author	Title
	2.1.1	Michael Morecroft, Natural England / Science Team, Great Britain	Resilience of ecosystems in theory and practice
	2.1.2	Iain Brown, James Hutton Institute, Great Britain	Ecosystem-based adaptation: overcoming barriers to implementation

2.1.3	Diana Sietz, Wageningen University / Rural Development Sociology, The Netherlands	Socio-ecological niches for soil and water conservation to adapt smallholder agriculture to climate variability
2.1.4	Kimberly Nicholas, Lund University / Lund University Centre for Sustainability Studies, Sweden	Two new frameworks for acceptable, generalizable climate adaptation: case studies from agriculture
2.1.5	Lili Ilieva, University Ca'Foscari / Department of Economics, Italy	Integrating ecosystem-based adaptation in Guyana's national adaptation policy: rationale and pathways

8 ROOM 3 ADAPTATION CASES STUDIES: ORGANISATIONAL, SECTORAL AND REGIONAL

Chair	Martina Floerke, Universität Kassel, Germany / Karl-Heinz Simon, Wissenschaftliches Zentrum für Umweltsystemforschung, Kassel, Germany	
	Author	Title
2.3.1	Isabel Seifert, Norwegian Institute for Water Research, Norway	CCSL - Climate Resilient Action Plans for coastal urban areas, Sri Lanka
2.3.2	Harry Storch, Brandenburg University of Technology Cottbus / Environmental Planning, Germany	Balancing urban growth and climate adaptation? Land-use Planning lessons from Ho Chi Minh City
3.3.6	Nadine Salzmann, University of Zurich / Physical Geography, Switzerland	PACC – lessons learnt from a Swiss - Peruvian Climate Change Adaptation Program
2.3.4	Manuel Gottschick, University of Hamburg / Research Center of Biotechnology, Society and Environment, Germany	Embedding Climate Change Adaptation in Reflexive Governance Procedures for Sustainable development. Coping with Complexity and Heterogeneous Perspectives
2.3.5	Julia Kotzebue, University of Twente / MB/CSTM, The Netherlands	Implementing the EU policy on climate change – Spatial misfits in the small Island state of Malta

11b ROOM 6 ROLE OF TOOLS AND KNOWLEDGE IN ADAPTATION - ADAPTATION TOOLS AND FRAMEWORKS

Chair	Ian Holman, Cranfield University, Bedford, United Kingdom	
	Author	Title
2.6.1	Christian Huggel, University of Zurich / Department of Geography, Switzerland	Developing multi-disciplinary methodologies to generate the scientific basis for adaptation projects
2.6.2	Fuad Ali, University of Greenwich / School of Architecture, Design and Construction, Great Britain	Adapting the UK's Social Housing: Impacts, the Translation Barrier and Backcasting
2.6.3	Jan Benden, RWTH Aachen / Institute of Urban and Transport Planning, Germany	Climate Adaptation and Industrial Areas - Guidelines and Tools for Business Companies and Disseminators
2.6.4	Lilly Lim-Camacho, CSIRO / Earth Sciences and Resource Engineering, Australia	Communicating climate risk: Applications of the Climate Futures tourism adaptation tool
2.6.5	Keith Williges, IIASA / RPV, Austria	Iterative Risk Management and Climate Adaptation: insights from European cases studies in Mediation

5a ROOM 12 GOVERNANCE OF ADAPTATION - BARRIERS TO CLIMATE CHANGE ADAPTATION: CASES AND CONCEPTS

Although the need for adaptation is generally accepted in scientific and policy debates on climate change, developing and implementing adaptation strategies remains difficult. Adaptation processes and decision making are challenged by cultural, social, institutional, technological, physical and economic factors. Science and research increasingly address questions of barriers, limits and constraints in adaptation to climate change. These barriers are diverse, heterogeneous and differently framed, calling for research from different perspectives, but also for their comparison and synthesis. The session will give an overview of the current state-of-the-art in research on barriers to adaptation. We will discuss conceptual approaches to research barriers, case studies on barriers to and enablers of adaptation, barriers in the governance of adaptation, barriers related to uncertainty and the science-policy interface, how different barriers interact, as well as strategies to overcome climate change adaptation barriers.

Organizer	Maja Rotter, Chameleon Research Group /Institute of Ecological Economy Research (IÖW), Berlin, Germany	
Chair	Carolina Adler, ETH Zurich, Switzerland / Maja Rotter, Institute of Ecological Economy Research, Berlin, Germany	
	Author	Title
1.8.1	Klaus Eisenack, Carl von Ossietzky University Oldenburg / Department of Economics, Germany	Barriers to adaptation: taking stock and looking ahead
1.8.2	Jochen Hinkel, Global Climate Forum / Adaptation and Social Learning, Germany	A diagnostic framework for problem-oriented adaptation research
1.8.3	Robbert Biesbroek, Earth System Science group / Environmental Sciences, The Netherlands	'Barriers' as concepts in the governance of climate change adaptation
1.8.4	Kerstin Krellenberg, Helmholtz Centre for Environmental Research - UFZ / Urban and Environmental Sociology, Germany	What hinders or benefits climate adaptation processes? Linking theory and practice
1.8.5	Johannes Klein, Aalto University / Department of Real Estate, Planning and Geoinformatics; Land Use Planning and Urban Studies Group, Finland	A three metre flood protection in view of climate change adaptation

5b ROOM 9 GOVERNANCE OF ADAPTATION - KNOWLEDGE MISMATCHES IN GOVERNANCE OF ADAPTATION

Scientists from various disciplines generate knowledge about climate change impacts, the vulnerability of society and about responses. This knowledge is often not requested by practitioners or policy makers. Many stakeholders find it difficult to extract the relevant knowledge for a specific decision or planning process. Practitioners request local information. But this local perspective is often not interesting for science due to missing transferability of results. Another mismatch is related to diverging views about the role of knowledge in decision making. Scientists have high expectations about the role of scientific knowledge in decision making. Practitioners, however, use scientific knowledge selectively, sometimes even manipulate or ignore it as they reconcile political interests. In this session we will address knowledge mismatches in governance of adaptation, jointly work on science-practice solutions to overcome these mismatches and identify the chances, governance processes can offer for these solutions. We will approach these mismatches from different scientific perspectives.

Organizer	Maria Hagemeier-Klose / Bart Jan Davidse, HafenCity University Hamburg, Germany	
Chair	Maria Hagemeier-Klose, HafenCity University Hamburg, Germany	
	Author	Title
2.9.1	Maria Hagemeier-Klose, HafenCity University Hamburg; plan B:altic / Urban Planning and Regional Development, Germany	The Dynamic Knowledge Loop – Inter- and Transdisciplinary Cooperation and Adaptation of Climate Change Knowledge
2.9.2	Martijn Duineveld, Wageningen UR / Cultural Geography, The Netherlands	Power/Knowledge in Climate Change Governance. A couple of arguments to move beyond the ‘we need more knowledge and more effective knowledge implementation’ thinking
2.9.3	Åsa Gerger Swarling, Stockholm University / Stockholm Environment Institute, Sweden	Exploring diverse knowledge systems for adaptation: the case of the Swedish Mistra-SWECIA programme
2.9.4	Katrien Termeer, Wageningen University Public Administration and Policy group, The Netherlands	Reconciling innovative knowledge partnerships into existing institutions: the case of the Dutch Knowledge for Climate program

6a ROOM 8 ADAPTATION STRATEGIES AND PLANNING - TRANSDISCIPLINARY STRATEGY DEVELOPMENT FOR ADAPTATION IN COASTAL PROTECTION

The five year research project A-KÜST – “Changes in the Coastal Climate: Evaluation of Alternative Strategies in Coastal Protection” – was launched in 2009 in the context of the Climate Impact Research Programme (KLIFF) of Lower Saxony, Germany. This transdisciplinary project is structured in six nature and engineering and one social science based subproject. The main objective is to identify a long term adaptation strategy that is both flexible and robust. In this session, inter- and transdisciplinary collaboration will be presented together with the results of subprojects that link climatic and hydro-numeric models to social reality. The transdisciplinary process fosters a comprehensive, transparent and integrative strategy development process for climate change adaptation in coastal protection.

Organizer	Andreas Wurpts, Gesa Lüdecke, Defence and Nature Conservation Agency, Germany	
Chair	Andreas Wurpts, Coastal Research Station of Lower Saxony Water Management, Coastal Defence and Nature Conservation Agency, Germany	
	Author	Title
2.8.1	Iris Grabemann, Helmholtz-Zentrum Geesthacht / Institute for Coastal Research, Germany	Extreme marine events in the North Sea and their changes due to expected anthropogenic climate change
2.8.2	Heiko Knaack, Lower Saxony Water Management, Coastal Defence and Nature Conservation Agency / Coastal Research Station, Germany	Modeling of design water levels and design wave conditions in the Ems estuary in the context of climate change
2.8.3	Cordula Berkenbrink, Lower Saxony Water Management, Coastal Defence and Nature Conservation Agency / Coastal Research Station, Germany	Evaluation of Coastal Protection Strategies with Respect to Climate Change
2.8.4	Anke Schmidt, Leuphana University of Lueneburg / Sustainability, Germany	Reflexive Multi-Criteria Evaluation as a Tool to Integrate Multiple Values of Scientists and Stakeholders
2.8.5	Gerard A. Beaufort, Delta Engineering Bureau, The Netherlands	Dutch adaptation strategy to climate change through Plan Beaufort

4c ROOM 14 DECISION-MAKING UNDER UNCERTAINTY - ADDRESSING UNCERTAINTIES IN NATIONAL ADAPTATION STRATEGIES

Fourteen European countries have adopted national strategies (NAS) and some have national action plans in place. One of the challenges is how governments deal with uncertainties in these adaptation strategies and plans. This session will investigate evidence from a Environmental Agency (EEA) project and then focus on the example of the National Adaptation programme (NAP) of the United Kingdom, currently being developed. Representatives from the EEA and CIRCLE2 project will present results from a survey sent to EEA member countries (in collaboration with the network of Environmental Protection Agencies) on how they deal with uncertainties in developing and implementing their NAS. Speakers will also reflect on how the upcoming EEA report on climate change adaptation in Europe, due early 2013, addresses the challenge of dealing with uncertainty. The second part of the session will discuss the case of the UK'S NAP. Scientists from the London School of Economics and policy-makers from national and local government will share their experience on developing adaptation strategies. The guiding question for their presentations will be 'How do we make progress without over-interpreting the scientific information or becoming locked in to uncertain methodologies too early?'

Organizer	Swenja Surminski , London School of Economics, United Kingdom / Andre Jol, EEA, Denmark	
Chair	Swenja Surminski, London School of Economics, United Kingdom / Andre Jol, EEA, Denmark	
	Author	Title
	Hans-Martin Füssel, European Environmental Agency	overview on how countries are dealing with uncertainties
	Tiago Capello Lourenço, CIRCLE2	Short presentation on CIRCLE-2 joint initiative on uncertainties
	Dave Stainforth, London School of Economics, United Kingdom	panel
	Nicola Ranger, London School of Economics	panel
	Sebastian Catovsky, Adaptation Sub-Committee Dagmar Droogsma, Department for the Environment, Farming and Rural Affairs	panel
	Tiago Capello Lourenço, CIRCLE2	panel

7c ROOM 11 MAINSTREAMING CLIMATE ADAPTATION - TAPPING OTHER RESOURCES: OF PRACTISE

Professionals in climate change adaptation and hazard mitigation operate with similar approaches and some common tools, yet with important differences – especially with respect to time frames and institutions. Recent trends in extreme weather events and advances in climate change science have highlighted important connections and gaps between the hazard mitigation and adaptation communities. Projected climate change impacts will likely tap the skills, tax the resources, and broaden the time horizons of hazard mitigation experts. Climate scientists and adaptation experts need improved understanding of local needs for regionally-relevant technical assistance and data, while adaptation practitioners can benefit greatly from best practices in hazard mitigation and evaluation. This session seeks to discuss the merits of fostering connections between hazard mitigation and adaptation communities. The presenters will highlight gaps and overlaps between the two communities as well as combined needs to better address climate change impacts. The subsequent dialogue will discuss tangible ways to build new and strengthen existing connections between hazard mitigation and adaptation professionals.

Organizer	Kelly Klima, Natural Hazard Mitigation Association, USA	
Chair	Ed Thomas, Natural Hazard Mitigation Association, USA	
	Author	Title
	Sergio Castellari, The Euro Mediterranean Centre on Climate Change, Italy	
	Ed Thomas, Natural Hazard Mitigation Association, USA	
	Jean Palutikof, Griffith University, Australia	

1b ROOM 10 TRANSNATIONAL COOPERATION - CLIMATE CHANGE ADAPTATION IN MOUNTAIN AREAS

Mountains cover 36% of Europe’s area and are home to 17% of the continent’s population. Climate change in particular may change the capacity of mountain landscapes to generate wealth and to provide a good livelihood. Such impacts will add further pressure to both social and natural systems in these regions, stressing the need to promptly conduct proactive climate adaptation plans. Due to its transnational relevance, climate change response policies in mountain areas must prioritise multilateral research efforts that are able to include the biophysical, social, cultural and economic aspects of these regions. Research on climate adaptation in these areas, including its socio-economic aspects, are thus of prime interest for several European countries with relevant mountainous systems. This session will highlight and bring together knowledge gained over past years and give insights into ongoing adaptation efforts (e.g. CIRCLE-2 MOUNTain). It will also highlight why transnational efforts are necessary and what role was played in the last years in the field of climate change adaptation in mountain areas across Europe. We aim to reflect on the role of transnational collaboration (eg. In CIRCLE-2 MOUNTain) and added value to national efforts focussing on mountain areas.

Organizer	Marcus Leitner, Environment Agency Austria	
Chair	Stephane Isoard, European Environment Agency (EEA), Copenhagen, Denmark	
	Author	Title
	Markus Leitner, Environment Agency Austria-EAA	CIRCLE-2 Mountain Initiative/MRI Europe efforts
	Susanne Menzel, Swiss Federal Institute for Forest, Snow and Landscape Research - WSL	C3-Alps - capitalising climate change knowledge in the Alpine Space
	Sandor Szalai, Szent István University, Hungary	CARPATCLIM - Climate change and adaptation in the Carpathian mountains
	Ingeborg Auer, Austrian Met Service – ZAMG	HistAlp - Historical instrumental Climatological surface time series of the greater Alpine Region

Ic ROOM 13 TRANSNATIONAL COOPERATION - LOST IN TRANSLATION? LINKAGES BETWEEN EU, MACRO-REGIONAL AND NATIONAL STRATEGIES

The European Union (EU) strategy for climate adaptation will be adopted in 2013. It has to interact with national and macro-regional adaptation strategies. With regard to national strategies, all EU countries are at some level developing and implementing national policy. The first macro-regional climate adaptation strategy will be launched by the Baltadapt project (HYPERLINK "<http://www.baltadapt.eu>"www.baltadapt.eu) in 2013 and is foreseen to be incorporated as a horizontal action within the EU Strategy for the Baltic Sea Region (EUSBR), which is the first comprehensive macro-regional EU strategy, covering several EU policies. This workshop will assess opportunities and constraints related to the interaction of strategies and action plans on the national, regional and EU-level and their role for implementation of actions. The main focus on the specific role of regional strategies – questioning how such strategies can facilitate adaptation to climate change from the perspective of local implementation, development of national strategies, as well as in facilitating implementation of the EU strategy. The workshop will be initiated by four speakers, followed by a moderated world-café session aiming to identify if and how strategies on different levels should interplay to ensure adaptation to climate change.

Organizer	Lotta Andersson, Swedish Meteorological and Hydrological Institute (SMHI), Sweden	
Chair	Krista Kampus, Council of the Baltic Sea Region, CBSS, Sweden	
	Author	Title
	Lotta Andersson, SMHI, Sweden	Development of a macro-regional strategy for the Baltic Sea Region
	Sabine McCallum, Environment Agency, Austria	Linking between the EU, national and the macro-regional perspectives
	Björn Grönholm, Environmental and Sustainable Development Secretariat, Finland	Linking local and macro-regional perspectives
	Carin Nilsson, SMHI, Sweden & Markus Leitner, EAA	Possible linkages between work on climate adaptation on all levels – experiences from the CIRCLE-2 network

TUESDAY, 19 MARCH 2013

08:00 - 18:00	Registration
09:00 - 18:00	Exhibition
09:00 - 18:00	Poster Exhibition
09:00 - 10:00	Plenary session Plenary lecture: Christopher Field, Stanford University, "How should extremes shape our approach to adaptation?" Plenary lecture: Holger Robrecht, ICLEI - Local Governments for Sustainability "Our future is not what it used to be: the role of knowledge in local climate adaptation"
10:00 - 10:30	Coffee Break
10:30 - 12:15	Parallel sessions C Science sessions Special science sessions Science-practice and practitioner sessions
12:15 - 13:15	Lunch
13:15 - 15:00	Parallel sessions D Science sessions Special science sessions Science-practice and practitioner sessions
15:00 - 15:30	Coffee Break
15:30 - 17:15	Parallel sessions E Science sessions Special science sessions Science-practice and practitioner sessions
15:30 - 17:15	Extra session: Connect4Climate / "i°Change"
17:15 - 18:45	2 nd Poster session and get together

PARALLEL SESSIONS C THURSDAY, 10:30 - 12:15

1	ROOM 4	CLIMATE VULNERABILITY ASSESSMENT	
	Chair	Daniela Jacob, Climate Service Center (CSC), Hamburg, Germany / Tobias Lung, Joint Research Centre, European Commission, Ispra (VA), Italy	
		Author	Title
	3.4.1	Audil Rashid, PMAS Arid Agriculture University / EcoHealth Research Lab, Department of Environmental Sciences, Pakistan	Vulnerability assessment for extreme climate events: case of 2010 floods in northwest Pakistan
	3.4.2	Michael Ruben Anker Larsen, Researcher / Danish Road Directorate, Denmark	GIS-Based Mapping of Road Sections Vulnerable to Flooding
	3.4.3	Mike Harley, Climate Resilience Limited / Director, Great Britain	Assessing the vulnerability of biodiversity to climate change
	3.4.4	Petra Tschakert, Pennsylvania State University / Geography, USA	Conceptual and Methodological Reflections on Vulnerability Assessments: A Comprehensive Focus on Inequality and Capacity for Change
	3.4.5	Klaus Rehda, Landesamt für Umweltschutz Sachsen-Anhalt, Germany	Climate change impact assessment as a basis for adaptation in Saxony-Anhalt
3c	ROOM 7	ECONOMICS OF ADAPTATION - INSTRUMENTS FOR ADAPTATION	
	Chair	Stéphane Hallegatte, World Bank Group, France / Paul Watkiss, Paul Watkiss Associates, Oxford, United Kingdom	
		Author	Title
	3.7.1	Alexia Leseur, CDC Climat / Research, France	What financial tools for adapting our infrastructures to climate change?
	3.7.2	Pier Vellinga, Wageningen UR, The Netherlands	Innovation as a way to reduce the cost of adaptation to climate change
	3.7.3	Reinhard Mechler, IIASA, Austria	Managing fiscal risks induced by extreme events under climate change
	3.7.4	Malte Jahn, Hamburg Institute of International Economics, Germany	Impacts of Climate Change Adaptation Policies at City Scale
	3.7.5	Klaus Eisenack, Carl von Ossietzky University Oldenburg / Department of Economics, Germany	The incentives for long-term adaptation investment in regulated network industries
4c	ROOM 2	DECISION-MAKING UNDER UNCERTAINTY - COMMUNICATION AND PERCEPTION OF UNCERTAINTIES	
	Chair	Andries Hof, PBL, The Netherlands Environmental Assessment Agency, Bilthoven, The Netherlands / Tony Patt, IIASA - International Institute for Applied Systems Analysis, Wien, Austria	
		Author	Title
	3.2.1	Monique de Groot - Reichwein, Wageningen University / Earth System Science - Climate Change and Adaptive Land and Water Management Group, The Netherlands	An Information Visualisation Framework for knowledge transfer of climate change impacts

3.2.2	Ramune Pansa, Center for Environmental Systems Research (CESR) Universität Kassel, Germany	Relevant psychological factors for behavioral adaptation to climate change
3.2.3	Irit Eguavo, University of Bonn / Center for Development Research, Germany	Farmers' perception of climate variability in West Africa. Findings from the WASCAL research project
3.2.4	Kristie Ebi, Stanford University / Medicine, USA	Health in New Socioeconomic Pathways for Climate Change Adaptation Research
3.2.5	Elisabeth Suessbauer, Helmholtz Centre for Environmental Research - UFZ / Urban and Environmental Sociology, Germany	Urban climate adaptation as a "wicked problem" – Understanding the adaptive capacity of public organizations from a neo-institutional perspective

5c ROOM 5 GOVERNANCE OF ADAPTATION - INSTITUTIONAL APPROACHES TO CLIMATE ADAPTATION

Chair	Dave Huitema, Vrije Universiteit Amsterdam, The Netherlands / Peter Driessen, Utrecht University, The Netherlands	
	Author	Title
3.5.1	Karen Anderton, University of Oxford / Transport Studies Unit, School of Geography and the Environment, Great Britain	AdMit it: climate change responses can be systematic and successful; but require more collaborative governance systems
3.5.2	Anja Wejs, Aalborg University / The Danish Centre for Environmental Assessment, Denmark	Constructing Legitimacy for Climate Change Planning: A Study of Local Government in Denmark
3.5.3	Andrea Keessen, Utrecht University / Institute for Constitutional and Administrative Law, The Netherlands	Embedding Adaptive Management into the Legal Framework: Examples from The Netherlands
3.5.4	Liz Root, Radboud University Nijmegen / Institute for Management Research Geography, Planning and Environment, The Netherlands	Bridging the Financial Gap in Climate Adaptation: Dutch Planning and Land Development Through a New Institutional Lens
3.5.5	Ingrid Sælensminde, Western Norway Research Institute, Norway	The role of institutions in initiating adaptation policies. A comparison of two municipalities

6c ROOM 1 ADAPTATION STRATEGIES AND PLANNING - ON NATIONAL, REGIONAL

Chair	Jill Jäger, Martin-Luther-Universität Halle-Wittenberg, Halle, Germany / Martin Parry, Imperial College London, United Kingdom	
	Author	Title
3.1.1	Astrid van Teeffelen, University of Helsinki, Metapopulation Research Group / Dept. of Biosciences, Finland	Matches and gaps between impacts of climate change on biodiversity, adaptation options and EU policy
3.1.2	Eric Massey, Free University Amsterdam / Environmental Policy Analysis, The Netherlands	The diffusion of policy innovations: climate change adaptation in EU Member States
3.1.3	Martina Zoller, Swiss Federal Office for the Environment / Climate Adaptation, Switzerland	The Swiss adaptation strategy: goals, challenges and fields of action in adapting to climate change
3.1.4	Sergio Castellari, CMCC / Institutional Relations and Adaptation Policies, Italy	Italian approach to develop a National Adaptation Strategy – lessons learnt from other European efforts
3.1.5	Salvador Samitier, Government of Catalonia / Catalan Office for Climate Change, Spain	Catalan Climate Change Action: A sub national case in Europe

8 ROOM 3 ADAPTATION CASES STUDIES: ORGANISATIONAL, SECTORAL AND REGIONAL		
Chair	Martina Flörke, Universität Kassel, Germany / Karl-Heinz Simon, Wissenschaftliches Zentrum für Umweltsystemforschung, Kassel, Germany	
	Author	Title
3.3.1	Maïté Fournier, EPAMA, France	The AMICE project : Adaptation of the Meuse to the Impacts of Climate Evolutions
3.3.3	Valentine van Gameren, Université Libre de Bruxelles / IGEAT- Center for Studies on Sustainable Development, Belgium	The practice of private adaptation in the forestry sector in Wallonia
3.3.4	Maria Chiara Trabacchi, Climate Policy Initiative, Italy	Private sector engagement in climate resilient development: an empirical analysis of public sector strategies
3.3.5	Tina Schneider, PhD Student / Economics and law, Germany	Corporate pioneers response to climate change impacts

11c ROOM 6 ROLE OF TOOLS AND KNOWLEDGE IN ADAPTATION - CLIMATE INFORMATION SHARING AND PRODUCTION		
Chair	André Jol, European Environment Agency, Copenhagen, Denmark / Ian Holman, Cranfield University, Bedford, United Kingdom	
	Author	Title
3.6.2	Chethika Abenayake, Lecturer / University of Moratuwa, Sri Lanka	Local Knowledge on Climate Variation; A Case of Batticaloa, Sri Lanka
3.6.3	Sergio Fava, Anglia Ruskin University / Cambridge School of Art, Great Britain	Critical Mass for Distributed Adaptation: The Visual Arts as Knowledge-sharing Vehicles and Catalysts for Action
3.6.4	Fen-Fang Tsai, National Central University / Graduate Institute of Hakka Social and Cultural Studies, Taiwan	Exploring cultural changes toward climate adaptation: Learning from the Taiwanese ethnic group Hakka
3.6.5	Elina Vaara, University of Helsinki / Finnish Museum of Natural History, Finland	The Conceptualization and Legal Framework of Assisted Migration

5c ROOM 9 GOVERNANCE OF ADAPTATION - ORGANISATIONAL ADAPTATION TO CLIMATE CHANGE

Climate change impacts cause risks and opportunities for public and private actors. Private companies are confronted with risks resulting from extreme weather events that might endanger their supply chains and production processes. Similarly public organisations have to prepare for increasing public health and safety risks that threaten the population. The session will provide an overview of current research on organisational adaptation. Different cases will be presented, which focus on how organisations develop understanding of climate change and how they engage in decision-making and change processes. The research presented identifies which factors hamper or support organisational decision-making on adaptation. We want to create a discussion forum on organisational adaptation and different theoretical framings and their suitability to explain organisational adaptation. We would like to encourage networking among researchers on organisational adaptation.

Organizer	Maja Rotter, Institute for Ecological Economy Research, Berlin, Germany	
Chair	Maja Rotter, Institute for Ecological Economy Research, Berlin, Germany	
	Author	Title
3.9.1	Frans Berkhout, VU University Institute for Environmental Studies (IVM), The Netherlands	Adaptation to climate change by organisations
3.9.2	Maja Rotter, Institute for Ecological Economy Research, Germany	Making sense of climate risks – organizational adaptation to climate change
3.9.3	Martina Linnenlücke, The University of Queensland / UQ Business School, Australia	Variations in Decision Makers' Use of Climate Change Information Sources and Impacts on Business Adaptation Choices
3.9.5	Maya van den Berg, University of Twente / Twente Centre for Studies in Technology and Sustainable Development, The Netherlands	Municipal approaches to climate adaptation from an organisational change perspective

6b ROOM 8 ADAPTATION STRATEGIES AND PLANNING - ADAPTIVE FLOOD MANAGEMENT

Climate change is forcing Governments in Europe to reconsider their policies for flood risk management. This requires an assessment of which strategic alternatives are to be preferred, not only from a risk reduction point of view, but also from the point of view of social equity, economic efficiency and ecological integrity. To support such an assessment and the design of long-term robust flood risk management policies, the Dutch Knowledge for Climate project “Climate-proof flood risk management” develops methods to assess the effectiveness of technical measures and policy instruments. It investigates the implications of their implementation, and assesses the robustness (resilience and resistance) of comprehensive flood risk management strategies in view of uncertainty about climate change. We will present and discuss results from various disciplines on the effectiveness, implementation and robustness of individual adaptation measures, such as flexible structures, measures to reduce wave attack, innovative embankments, and measures to reduce flood consequences.

Organizer	Heidi Kreibich, German Research Centre for Geosciences GFZ, Potsdam, Germany	
Chair	Heidi Kreibich, German Research Centre for Geosciences, Potsdam, Germany	
	Author	Title
3.8.1	Jantsje M. van Loon-Steenma, Wageningen University & Researchcentre / Earth System Sciences Group, The Netherlands	In search for more robust flood protection concepts in the Dutch Wadden area
3.8.2	Sally Priest, Middlesex University / FHRC, Great Britain	Flood insurance: navigating the minefields
3.8.3	Hans de Moel, VU University Amsterdam / Institute for Environmental Studies, The Netherlands	Spatial cost-benefit analysis to optimize effective use of flood-risk reducing measures in unembanked areas
3.8.4	Philip Bubeck, German Research Centre for Geosciences / Hydrology, Germany	What influences the decision of households to undertake flood mitigation measures?
3.8.5	Frans Klijn, Deltares, The Netherlands	Enhancing the robustness of river flood risk systems in view of climate change
3.8.6	Vana Tsimopoulou, PhD student / Hydraulic Engineering, Delft University of Technology, The Netherlands	Cost-optimization of multi-layer safety systems

1b ROOM 11 CLIMATE VULNERABILITY ASSESSMENT - DECISION MAKING FOR CLIMATE ROBUST INFRASTRUCTURE

Long term infrastructure investments (new roads, bridges, tunnels, maintenance programmes) are often solely based on cost-benefit analysis, with not much consideration of uncertain events, such as effects of climate change. In this collaborative session, practitioners will present hands-on techniques for incorporating uncertainty and climate change considerations into the decision making process for this type of investments. The session will use lessons learned from a pilot process used to address vulnerability and risk in the San Francisco Bay Area and a role-play simulation exercise developed through the Dutch project Infrastructure, Climate Adaptation and Hotspots (INCAH) to help decision-makers around the world grapple with the use of scenarios and multi-stakeholder engagement. We will address important institutional questions, such as Who will be assessing climate change-related risks and incorporating into management and decision-making? What are some of the barriers and drivers in this process? How should stakeholders collaborate to ensure a robust network? What tools are available to these groups to enhance their decision-making capacities? Exercises will provide participants a shared frame of reference for subsequent reflection and discussion and will equip practitioners and decision makers with necessary tools to manage uncertainty in relationship to climate change.

Organizer	Nienke Maas, TNO, The Netherlands / Yanna Badet, AECOM, San Francisco, USA	
Chair	Yanna Badet, AECOM, USA	
	Author	Title
	Nienke Maas, TNO, The Netherlands	The challenge: adapting infrastructure to climate change impacts
	Todd Schenk, MIT, USA	A role-play simulation exercise to deal with uncertainty: review of a game
	Yanna Badet, AECOM, USA	Vulnerability and risk assessment in San Francisco Bay Area to support decision making

4e ROOM 14 DECISION-MAKING UNDER UNCERTAINTY - FROM SCIENCE AND CONCEPTS TO CLIMATE RESILIENT DEVELOPMENT IN DEVELOPING COUNTRIES

The challenge of dealing with medium-to-long-term changes brings the added dimension of uncertainty in climate change and in development scenarios. This session will bring together researchers, practitioners and decision-makers and staff from the World Bank and from ministries/thinktanks in developing countries. It will highlight: Effective institutional structures (such as multi-sectoral and multi-stakeholder coordination mechanisms) to define priorities and manage trade-offs; Importance of entry point and the role of a lead ministry (so moving from environment to finance/planning, including economic costs/damages from climate variability and change into national development plans to move to climate resilient development); Sustainability of effort and finance (such as donor coordination and move to national budget commitment or budgetary support for managing risks of climate change to development). The difficulty of making decisions under uncertainty, and methodologies that are available and have been used. We want to show that progress is being made in bringing together science and practice in terms of adaptation, and that doing so require innovation in institutional and technical terms.

Organizer	Habiba Gitay / Stéphane Hallegatte, World Bank, France	
Chair	Stéphane Hallegatte, World Bank, France	
	Author	Title
	Dickson Ndhlovu, Road Development Agency, Lusaka, Zambia	
	Hamed Assaf, American University of Sharjah, United Arab Emirates,	

	Amal Aldababseh, Estidama for Environment, Amman, Jordan	
	Stéphane Hallegatte to present a Vietnamese project managed by Christophe Crépin and Thu Thi Le Nguyen, World Bank staff	

6a ROOM 10 ADAPTATION STRATEGIES AND PLANNING - EU CITIES ADAPT – URBAN ADAPTATION STRATEGIES

EU Cities Adapt is a project carried out for DG Climate Action that aims to develop capacity on climate change adaptation in urban Europe. Through peer exchange and tailor-made training and coaching 21 European cities will be supported for a period of nine months to strengthen their urban adaptation processes and to develop adaptation strategies. The vision of the project is that cities across Europe will be better equipped to adapt to climate change through expanding and making existing knowledge and experiences on adaptation available and suitable for the European urban context. The session will present and discuss the outcomes of the training so far and provide lessons learnt in setting up urban adaptation processes including sharing encountered challenges and opportunities with regard to carrying out vulnerability assessments, sourcing adaptation financing, ensuring political commitment and identifying suitable adaptation measures. Cities that are participating in the project will present their adaptation journeys and discuss valuable insights into their ongoing adaptation work. Emphasis of the session will be on interactive discussions by encouraging exchange between presenters and the audience on adaptation challenges and opportunities in urban Europe.

Organizer	Astrid Westerlind-Wigström, ICLEI, Germany	
Chair	Astrid Westerlind-Wigström, ICLEI, Germany	
	Author	Title
	Lisa Horrocks, Ricardo-AEA	
	Lissy Nijhuis, City of Rotterdam, The Netherlands	
	Maaïke Breugelmans, City of Ghent, Belgium	
	Catarina Freitas, City of Almada, Portugal	
	European Commission, DG Climate Adaptation Unit - representative / tbc	
	UNISDR Europe - representative / tbc	

7d ROOM 12 MAINSTREAMING CLIMATE ADAPTATION - DEALING WITH STORMWATER ADAPTATION - LESSONS LEARNED BY WATER UTILITIES

Climate change will affect European cities. Extreme showers can more often cause serious damage. Uncertainties surround this issue, which makes it impossible to define a technical best solution. Water utilities are responsible for managing the sewer and stormwater networks and waste water treatment plants. This infrastructure lasts for decades and is expensive to replace. In dealing with stormwater adaptation challenges water utilities have to cooperate closely with other city stakeholders. What role can water utilities play in the climate adaptation agendas in these different cities? How can this challenge be linked to other urban dynamics like streets renewal, restructuring of buildings or local sustainability initiatives? What is the potential for smart combinations of grey and green infrastructures? Who should pay? In this session representatives of four public water utilities from North(west) European metropolitan cities will share lessons learned in dealing with extreme stormwater events. This will be placed in a framework of the research of Universities of Sheffield and Amsterdam. The session aims to match theory and practice in dealing with extreme events. Sharing lessons between cities and water utilities helps them to be more successful in adaptation in the built environment.

Organizer	Paulien Hartog, Waternet Amsterdam, The Netherlands / Jeroen Kluck, Amsterdam University of Applied Sciences, The Netherlands	
Chair	Clive Harward, EUREAU and Anglian Water, United Kingdom	
	Author	Title
	Jeroen Kluck, Amsterdam University of Applied Sciences, The Netherlands	Dealing with uncertainties in stormwater management
	Axel Waldhoff, Hamburg Wasser, Germany	Case of Hamburg
	Joakim Pramsten, Stockholm Vatten, Sweden	Case of Stockholm
	Jes Clauson-Kaas, HOFOR, Greater Copenhagen Water Company, Denmark	Case of Copenhagen
	Paulien Hartog, Waternet Amsterdam, The Netherlands	Case of Amsterdam
	John Blanksby, University of Sheffield, United Kingdom	Approach for Flood Risk Management with focus on stakeholders and capacity building

IVc ROOM 13 BEST PRACTICES - DESIGNS BOOSTING URBAN CLIMATE CHANGE

Various gaps between science and practice have to be overcome to adapt the city to climate issues. There are various ways to bridge these 'utility gaps'. One of them has proven to be specifically promising as a tool: using concrete climate-responsive design and planning proposals that are based on climate science insights. In this session, we will show various cases where design proposals for concrete locations have brought about such 'climate changes.' The concrete, often three-dimensional design proposals illustrate the change in the spatial structure and atmosphere of a place, making effects tangible and trigger people's imagination and identification with these proposals. In various climate adaptation projects, design as a method to firstly bring about a 'climate change' in citizen's minds and secondly to implement climate-responsive design has proven successful. We will first show projects that help to put 'climate adaptation' on the agenda and then projects that have helped implementation. After each part, we will include lively discussions with the audience. The main aim of this session is to show the value of designs to raise awareness and to eventually achieve implementation of climate responsive design

Organizer	Sanda Lenzholzer, Wageningen University, The Netherlands	
Chair	Sanda Lenzholzer, Wageningen University, The Netherlands	
	Author	Title
	Hans van Ammers, Arnhem municipality, The Netherlands	
	Annemieke Spit, Tiel municipality, The Netherlands	
	Shady Attia, Swiss Federal Institute of Technology, EPFL, Switzerland	
	Olaf Schroth, University of Sheffield, United Kingdom	
	Heide Schuster, WS green Technologies, Germany	

PARALLEL SESSIONS D TUESDAY, 13:15 - 15:00

1	ROOM 4	CLIMATE VULNERABILITY ASSESSMENT	
	Chair	Daniela Jacob, Climate Service Center (CSC), Hamburg, Germany / Tobias Lung, Joint Research Centre, European Commission, Ispra (VA), Italy	
		Author	Title
	4.4.1	Hermine Mitter, University of Natural Resources and Life Sciences, Vienna / Department of Economics and Social Sciences, Austria	Knowledge integration of local stakeholders, experts and scientists into bio-physical modelling for regional vulnerability assessment
	4.4.2	Jokastah Kalungu, International Crops Research Institute for Semi-Arid Tropics, Kenya	Smallholder farmers' perception of the impacts of climate change and variability on rainfed agricultural practices in semi-arid and sub-humid regions of Kenya
	4.4.3	Kevin Hanna, Wilfrid Laurier University / Geography and Environmental Studies, Canada	Policy uncertainty and planning for adaptation: Canadian local government experiences
	4.4.4	Stefan Goessling-Reisemann, University of Bremen / Production Engineering, Germany	Vulnerability assessment extended: from climate change to structural weaknesses

4d	ROOM 2	DECISION-MAKING UNDER UNCERTAINTY - MODELS AND SCENARIOS	
	Chair	Andries Hof, PBL, The Netherlands Environmental Assessment Agency, Bilthoven, The Netherlands / Tony Patt, IIASA - International Institute for Applied Systems Analysis, Wien, Austria	
		Author	Title
	4.2.1	Mark Rounsevell, University of Edinburgh / School of GeoSciences, Great Britain	Evaluating uncertainty in a multi-sectoral, climate change impacts and adaptation assessment in Europe
	4.2.2	Nicole Glanemann, University of Hamburg / Department of Economics, Germany	The Optimal Climate Policy of Mitigation and Adaptation: A Real Options Theory Perspective
	4.2.3	Karianne de Bruin, CICERO, Norway	Investment in flood protection under climate change uncertainty in the Eastern Brahmaputra Plains, Assam, India
	4.2.4	Jana Bürger, University of Rostock / Crop Health, Germany	Uncertainty in modelling distribution of arable weeds under climate change conditions
	4.2.5	Jochen Schanze, Leibniz Institute of Ecological Urban and Regional Development / Environmental Risks in Urban and Regional Development, Germany	Integrating modelbased climate change projections and impact assessment in enhanced scenario planning of regional actors – a new methodology

5d	ROOM 5	GOVERNANCE OF ADAPTATION - REGIONAL AND LOCAL CLIMATE ADAPTATION GOVERNANCE	
	Chair	Dave Huitema, Vrije Universiteit Amsterdam, The Netherlands / Peter Driessen, Utrecht University, The Netherlands	
		Author	Title
	4.5.1	Belinda McFadgen, Institute for Environment Studies / Environmental Policy Analysis, The Netherlands	What is the Value of “Twisting the Lion’s Tail”? Evaluating the use of Policy Experiments in Adaptation Governance and how they can facilitate Learning
	4.5.2	Rebecca Stecker, Carl von Ossietzky University Oldenburg / Department of Economics, Germany	A framework for analyzing climate change adaptations as actions
	4.5.3	Torsten Grothmann, Carl von Ossietzky University of Oldenburg / Ecological Economics, Germany	Three steps to build a regional governance roadmap for adaptation – results and experiences from Northwest Germany
	4.5.4	Marco Pütz, Swiss Federal Institute for Forest, Snow and Landscape Research / Economics and Social Sciences, Switzerland	Re-Scaling Environmental Governance: The Politics of Climate Change Adaptation in Switzerland
	4.5.5	Fen-Fang Tsai, National Central University / Center for Environmental Studies, Taiwan	Meet the interface of climate adaptation governance: A case study on water management from Taiwan

6d	ROOM 1	ADAPTATION STRATEGIES AND PLANNING - REGIONAL POLICIES	
	Chair	Jill Jäger, Martin-Luther-Universität Halle-Wittenberg, Halle, Germany / Martin Parry, Imperial College London, United Kingdom	
		Author	Title
	4.1.2	Klaus Wagner, Technische Universität München / Chair of Forest and Environmental Policy, Germany	Business as usual or fundamental change? Analysis of the climate change adaptation plans of three alpine countries with a focus on the natural hazards
	4.1.3	Elisabeth Rudolph, Bundesanstalt für Wasserbau (BAW), Germany	Protecting German North Sea Estuaries in Times of Climate Change
	4.1.4	Carlo Giupponi, Ca' Foscari University and CMCC / Economics, Italy	Local development and climate change adaptation in the Alps: a case study on sustainable winter tourism in the Dolomites
	4.1.5	Oskar Wallgren, Stockholm Environment Institute, Sweden	Adaptation without borders: perspectives on indirect climate impacts

8	ROOM 3	ADAPTATION CASES STUDIES: ORGANISATIONAL, SECTORAL AND REGIONAL	
	Chair	Martina Floerke, Universität Kassel, Germany / Karl-Heinz Simon, Wissenschaftliches Zentrum für Umweltsystemforschung, Kassel, Germany	
		Author	Title
	4.3.1	Debora de Block, Wageningen University / Earth System Science, The Netherlands	Ecosystem-based Adaptation in European water management projects
	4.3.2	Marjolein Sterk, ARK / Coalition Naturel Climate Buffers, The Netherlands	Naturally safe: using ecosystem processes to develop resilient living environments with climate change

4.3.3	Martin Kernan, University College London / Geography, Great Britain	Adaptive strategies to Mitigate the Impacts of Climate Change on European Freshwater Ecosystems
4.3.4	Kristine Skarbø, Western Norway Research Institute / Environmental Department, Norway	The role of crop diversity in climate change adaptation: A case study from the Ecuadorian Andes
4.3.5	Nicholas Cradock-Henry, Landcare Research / Governance and Policy, New Zealand	"From the ground up": farm-level vulnerability to climate and other stressors in eastern New Zealand

10a ROOM 6 IMPACT AND EFFECTIVENESS STUDIES - IMPACTS

Chair	Paul Hunter, University of East Anglia, Norwich, United Kingdom / Rob Swart, Wageningen University, The Netherlands	
	Author	Title
4.6.1	Veit Blauhut, University of Freiburg / Institute of Hydrology, Germany	Linking Drought Indices to Impacts of the 2003 drought event
4.6.2	Laura Meller, University of Helsinki / Department of Biosciences, Finland	Global scenarios as tools for regional policy planning: the case of climate change, bioenergy, and conservation of European birds.
4.6.3	Climate Change Impacts Study Committee, Bank of Greece / Climate Change Impacts Study Committee, Greece	The environmental, economic and social impact of climate change in Greece.
4.6.4	Felipe De Jesús Colón-González, Postdoctoral Fellow / The Abdus Salam International Centre for Theoretical Physics, Earth System Physics Section, Italy	Dengue and climate change in Mexico
4.6.5	Michel Köhler, Perspectives GmbH / Climate Policy Advice, Germany	Indicators for Quantifying the Adaptive Effect of Adaptation Activities

12a ROOM 7 COMMUNICATING IMPACTS, VULNERABILITY AND ADAPTATION - COMMUNICATION VIA WEBSITES AND PORTALS

Chair	Pier Vellinga, Wageningen University and Research Centre, The Netherlands	
	Author	Title
4.7.1	Hartmut Fünfgeld, RMIT University / School of Global, Urban and Social Studies, Australia	The Climate Change Adaptation Navigator: a process-based visualisation tool for adaptation
4.7.2	Yaron Hershkovitz, Universität Duisburg-Essen / Aquatische Ökologie, Germany	Climate-and-freshwater.info: Crisp information on how Climate Change affects freshwater ecosystems
4.7.3	Wilfried Ten Brinke, Blueland Consultancy, The Netherlands	Climateadaptation.eu, a new initiative for communicating impacts, vulnerabilities and adaptation strategies across Europe
4.7.4	Markus Wrobel, Potsdam Institute for Climate Impact Research (PIK) / Research Domain II: Climate Impacts & Vulnerabilities, Germany	How usable is the current landscape of web-based climate change and adaptation information portals?
4.7.5	Torsten Grothmann, Carl von Ossietzky University of Oldenburg / Ecological Economics, Germany	Communication of climate change adaptation – where do we stand?

3a ROOM 9 ECONOMICS OF ADAPTATION - INSURANCE AND FINANCE IN CLIMATE CHANGE ADAPTATION

The EU White Paper on adaptation notes that there is a need to explore the potential for insurance and other financial products to complement adaptation measures and to serve as risk-sharing mechanisms. Climate change is also likely to impact the insurance industry's ability to assess risks. This session discusses the role that insurance and finance in the Nordic context can play in adapting to climate change, including decision-making tools that can help inform individual house owners about climate risk and insurance opportunities. We will also discuss the interface between regulation and insurance and present case studies exploring the adaptive capacity of the insurance sector, and how they deal with the long-term perspective of climate change.

Organizer	Richard J.T. Klein, Stockholm Environment Institute, Sweden / Sirkku Juhola, University of Helsinki and Aalto University, Finland	
Chair	Richard J.T. Klein, Environment Institute, Stockholm, Sweden	
	Author	Title
4.9.1	Tina-Simone Neset, Linköping University / Centre for Climate Science and Policy Research, Sweden	VisAdapt: a decision-making tool for homeowners and insurance professionals
4.9.2	Anne Gammelgaard, Aarhus University / Business and Social Sciences, AU Herning, Denmark	How do ICT-based visualizations affect private stakeholders' sense-making of climate impacts, vulnerability and adaptation responses?
4.9.3	E. Carina H. Keskitalo, Umeå University / Department of Geography and Economic History, Sweden	Insurance sector responses to climate change in different countries: a comparative perspective
4.9.4	Lára Jóhannsdóttir, University of Iceland / School of Business, Iceland	Climate adaptation challenges of small and medium sized insurance companies

4a ROOM 8 DECISION-MAKING UNDER UNCERTAINTY - CLIMATE VS. NON-CLIMATE DRIVEN DENSITY OF CLIMATE IMPACT STUDIES

The design of optimal climate adaptation strategies in any sector requires reliable information on climate impacts. Climate impact models are an important tool to quantify potential impacts of climate change and to help decision makers with planning adaptation measures. The accuracy of impact models depends both on climate input parameters and on non-climate key parameters, such as land surface properties, vegetation distribution or soil characteristics, each with its own uncertainty range. Moreover, the effectiveness of adaptation strategies depend strongly on the interplay with other policies such as energy security, forest management or water availability, which might play a larger role than direct climate driven changes. We will compare the climate and non-climate driven sensitivities of impact studies to find out the balance between uncertainties in climate models and the uncertainty of non-climatic parameters in impact models.

Organizer	Oleg Panferov, Georg-August University, Göttingen, Germany	
Chair	Diana Rehid, Max-Planck-Institut für Meteorologie, Hamburg, Germany / Oleg Panferov, Georg-August University, Göttingen, Germany	
	Author	Title
4.8.1	Jörg Dietrich, Leibniz Universität Hannover / Hydrologie, Wasserwirtschaft und landwirtschaftlicher Wasserbau, Germany	A Review of the State of Art in Uncertainty Consideration in Hydrological Climate Impact Studies

4.8.2	Claus Döring, Universität Göttingen / PGZ, Germany	Why it is necessary to identify and communicate the major sources for uncertainty in climate impact studies when giving advice to the Praxis?
4.8.3	Frank Herrmann, Forschungszentrum Jülich / IBG-3, Germany	Modelling of future groundwater recharge in the metropolitan area of Hamburg (Germany) under changed climate conditions
4.8.4	Juliane Petersen, Max Planck Institute for Meteorology / Atmosphere in the Earth System, Germany	Feedback of forest conversion on the simulated climate of the metropolitan region of Hamburg
4.8.5	Robert Schoetter, KlimaCampus, University of Hamburg / Meteorological Institute, Germany	Impact of urban development scenarios and orography on summer heavy precipitation in Hamburg
4.8.6	Manuel Gottschick, University of Hamburg / Research Center of Biotechnology, Society and Environment, Germany	How sensitive are decisions and behavior to climate change knowledge and impacts studies? Qualitative Interview Findings from Regional Governance Networks

4a ROOM 13 DECISION-MAKING UNDER UNCERTAINTY - DECISION MAKING WITH INCOMPLETE DATA IN FOREST ADAPTATION TO CLIMATE CHANGE

Is there enough evidence to justify the translocation of forest populations to compensate for climate change? Sustainable Forest Management generally aims to increase system resilience and adaptability to new climates, while maintaining the forest productivity. Under a changing climate the adaptation of managed forests relies on migration, on the adaptability of species and on other local mechanisms, but above all on smart decisions from ecosystem managers. Forest management is now characterized by a classical decision-making dilemma. On the one hand, waiting for a complete scientific understanding of forests adaptation to climate change leads to paralysis by analysis. On the other hand, not changing management practices in time may lead many forests to extinction. Assisted migration of tree populations --translocation-- is increasingly considered as a feasible adaptation option in northern temperate ecosystems. While it has risks, it can be seen as a way to increase the genetic diversity of forest ecosystems. The decision-making dilemma arises, because experimental translocation trials are expensive, long-term international projects. The session aims to explore the practice of decision making with incomplete data in the case of assisted migration of populations, integrating stakeholders and the problems that they found in adapting forests to climate change.

Organizer	Minh Ha Duong, Centre International de Recherche sur l'Environnement et le Développement - CIRED – CNRS, France	
Chair	Minh Ha Duong, Centre International de Recherche sur l'Environnement et le Développement - CIRED – CNRS, France	
	Author	Title
	Marta Benito, Centre International de Recherche sur l'Environnement et le Développement -CIRED - CNRS, France	science perspective
	Joelle Schmitt, Montaraz Group, and the OECD working group on Forest Reproductive Material Regulation	industry perspective
	Pierre Bouillon, Forest Genetic Resources, French Ministry of Agriculture	administration perspective
	Martina Temunovic, Faculty of Forestry in Zagreb, Croatia	management perspective

6c ROOM 11 ADAPTATION STRATEGIES AND PLANNING - BUILDING ROBUST STRATEGIES FOR A CLIMATE PROOF FRESH WATER SUPPLY.

Hydrological patterns will change across Europe due to climate change. Socio-economic development will cause increasing water demand. In many countries, these changes cause water supply and demand to be out of equilibrium, asking for adaptation at several scales. In deciding for adaptation measures, some fundamental questions need to be addressed, such as: what is the role of the government and what of the individual water user (Public versus private adaptation)? How to fine-tune public and private adaptation? Which arrangements can we use to govern this - markets, voluntary agreements? Other questions touch upon scales: national scale versus local scale. What are strategies to increase the self-reliance of regions, sectors, companies, etc.? What are possible consequences at EU level? Combining these adaptation actions at several scales into a coherent and robust fresh water adaptation strategy is a challenging task for policy-makers. This is further complicated by several types of uncertainty raising the question what sort of strategies are most successful in coping with an uncertain future? In this session we want to learn from international case study comparison on the planning and management of adaptation strategies for fresh water supply.

Organizer	Ad Jeuken, Deltares, The Netherlands	
Chair	Eelco van Beek, University Twente, The Netherlands	
	Author	Title
	Ana Iglesias, Universidad Politécnica de Madrid, Spain	
	Rolph Johnsen, Central Denmark Region, Denmark	
	Pierre Strosser, Action, France	
	Willem Oosterberg, Ministry of Infrastructure and Environment, The Netherlands	

6d ROOM 14 ADAPTATION STRATEGIES AND PLANNING - EXPLORING BIOPHYSICAL AND SOCIO-ECONOMIC PERSPECTIVES FOR A ROBUST ECOLOGICAL INFRASTRUCTURE

Achieving a strong ecological infrastructure is an important way to safeguard biodiversity under conditions of climate change. The challenge for climate adaptation in rural areas is to combine this goal with other governmental and societal demands such as meeting EU nature conservation targets and maintaining a competitive agricultural sector. Two main topics will be addressed in this session: To what extent are current EU nature conservation targets realistic under conditions of climate change? Is current connectivity of nature areas sufficient to facilitate migration of species? Will additional adaptation measures such as water retention affect biodiversity and/or EU nature conservation targets? How can the expansion of nature areas to improve connectivity also meet aims of other land users? Are surrounding farmers hindering or facilitating nature targets? Are traditional zoning plans still functional? Climate Adaptation for Rural arEas (CARE) aims to develop a participatory approach to climate change adaptation strategies for rural areas by applying an agent-based model (ABM) that focuses on land exchange between nature managers and farmers at the regional level. This session will present and discuss a multidisciplinary approach to investigate the feasibility, from both a biophysical and socio-economic perspective, of achieving a climate-robust ecological infrastructure.

Organizer	Adri van den Brink, Wageningen UR, The Netherlands	
Chair	Adri van den Brink, Wageningen UR, The Netherlands	
	Author	Title
	Flip Witte, KWR Watercycle Research Institute and VU University, The Netherlands/Claire Vos, Wageningen UR, The Netherlands	The feasibility of EU nature targets under conditions of climate change
	Martha Bakker, Wageningen UR, The Netherlands	Perspectives on multifunctional land use for improving connectivity of nature
	Teun Spek, Province of Gelderland, The Netherlands	Implementing a climate-robust ecological infrastructure in the rural development project Baakse Beek
	Mark Rounsevell, University of Edinburgh, United Kingdom	Reflection on climate adaptive rural areas

11a ROOM 10 ROLE OF TOOLS AND KNOWLEDGE IN ADAPTATION - SCIENCE-PRACTICE LAB FOR DECISION SUPPORT: THE PRACTICE OF 'SERIOUS GAMING' (PART 1)

Many tools have been developed to support decision making under the uncertainty of climate change. However, when applying the tools in actual policy-making situations, limitations surface. The most appropriate tools can be developed by a continuous dialogue between scientists and practitioners in a recurrent process of testing and improving. This session will be exploring the concept of science-practice labs and other tools and mechanisms for implementing this and to co-create new knowledge relevant for decision-making. In the first part of the session, participants can actively engage in the Sustainable Delta Game, a tool successfully used to support decision-making processes in integrated and adaptive water management in The Netherlands. In the second part of the session, a number of additional experiences in Europe with decision-support tools for flood risk management and delta development will be presented and discussed. The main objectives of the session are to strengthen the emerging European network of researchers and practitioners involved in assessment of risks and opportunities and to identify research needs on decision support tools by practitioners. The results will be used in the programming of JPI Climate, a collaborative programme of national research funding agencies in Europe.

Organizer	Rob Swart, Wageningen UR, The Netherlands / Cees van de Guchte, Deltares, The Netherlands / Ingrid de Koning, Alterra / Deltares, The Netherlands	
Chair	Marjolijn Haasnoot, Deltares and Annemarie Groot, Alterra, The Netherlands	
	Author	Title
	Rob Swart, Alterra, The Netherlands	Introduction of session objective and JPI Climate
	Marjolijn Haasnoot, Deltares, The Netherlands	Playing the Sustainable Delta Game - introduced and managed by Marjolijn Haasnoot
	The second part of the workshop follows at 15:30 (page 51)	

Va ROOM 12 CLIMATE ENGINEERING - CLIMATE ADAPTATION ENGINEERING: MANAGING CLIMATE CHANGE BY ENGINEERING SOLUTIONS (PART 1)

While applications of traditional engineering ensure the safety, serviceability, durability of current built environment, the integration of climate change science and engineering provides broader opportunities to ensure urban and coastal built environment adaptation strategies are harmonised for maximum benefit under a changing climate in the future. There have been some researches to apply traditional engineering concepts to accommodate the impact of future changing climate, but lack of a platform to systematically identify efficient and cost-effective engineering solutions for climate adaptation. An attempt is being made to create a platform for scientists, engineers, public policy decision-makers, and other stakeholders, by linking engineering practices to climate change research and providing adaptation options particularly relevant to built assets. It advocates the engineering concepts that take into account the risks of changing climate into technological and engineering solutions, and that increase the adaptive capacity of built environments. The platform will also facilitate the development of decision pathways adapting to changes through planning, design, construction, maintenance and renewal over the lifecycle of the built environment. The overall goal of the session is to enhance the international research interests and collaboration through this platform in the emerging research area of climate adaption engineering.

Organizer	Xiaoming Wang, CSIRO, Australia / Marc G. Stewart, The University of Newcastle, Australia	
Chair	Xiaoming Wang, CSIRO, Australia / Mark G. Stewart, University of Newcastle, Australia	
	Author	Title
	Prof. Xiaoming Wang, CSIRO	Understanding of Climate Change Impact and Adaptation through Developing Engineering Knowledge
	Emilio Bastidas-Arteaga, University of Nantes, France	Cost-effectiveness of Climate Change Adaptation Strategies for RC Structures Exposed to Chloride Ingress: Application to Existing Structures in France
	Boulent Imam, University of Surrey, Guildford, Surrey, United Kingdom	The Impact of Climate Change on Bridge Assets
	Mark A. Bradford, University of New South Wales, Sydney, Australia	Heat waves and thermal-induced pavement uplift
	Mike van der Heijden, Eindhoven University, The Netherlands	Climate change adaptation measures at the building scale to reduce indoor overheating during heat waves
	Andy van den Dobbelsteen, Delft University of Technology, The Netherlands	
	The second part of the workshop follows at 15:30 (page 53)	

PARALLEL SESSIONS E TUESDAY, 15:30 - 17:15

2	ROOM 4	RISK ASSESSMENT	
	Chair	Paula Harrison, University of Oxford, United Kingdom / Jochen Hinkel, Global Climate Forum, Berlin, Germany	
		Author	Title
	5.4.1	Erika Palin, Met Office Hadley Centre, Great Britain	Assessing the potential impacts of climate change on the railway network of Great Britain
	5.4.2	Irina Stipanovic Oslakovic, University of Twente / Construction Management and Engineering, The Netherlands	Risk assessment of climate change impact on railway infrastructure – Dutch case study
	5.4.3	Sotiris Vardoulakis, Health Protection Agency / Centre for Radiation, Chemical & Environmental Hazards, Great Britain	Health Effects of Climate Change and Adaptation Measures in the United Kingdom
	5.4.4	Maha Bouzid, University of East Anglia / Norwich School of Medicine, Great Britain	Estimation of the potential impact of climate change on Dengue fever risk in Europe
	5.4.5	Maria Triviño, National Museum of Natural Sciences / Biogeography and Global Change, Spain	Risk assessment for Iberian birds under global change
	5.4.6	Karoliina Pilli-Sihvola, Finnish Meteorological Institute / Climate change, Finland	Optimal forest management under storm risk in current and future climate in Finland

4e	ROOM 2	DECISION-MAKING UNDER UNCERTAINTY - IMPROVING RESILIENCE AND STAKEHOLDER INVOLVEMENT	
	Chair	Andries Hof, PBL, The Netherlands Environmental Assessment Agency, Bilthoven, The Netherlands / Tony Patt, IIASA - International Institute for Applied Systems Analysis, Wien, Austria	
		Author	Title
	5.2.1	Carlo Aall, Western Norway Research Institute / Environment, Norway	The need to move from mastering to coping with climate uncertainties
	5.2.2	Ines Omann, Sustainable Europe Research Institute, Austria	Assessment of robust policy responses for adaptation to the impacts of climate change
	5.2.3	Tiago Capela Lourenço, Faculdade de Ciências da Universidade de Lisboa, Portugal	Looking up or staring down? Bottom-up vs. top-down approaches to uncertainty in adaptation decision-making processes
	5.2.4	Sönke Stührmann, University of Bremen / Technological Design and Development, Germany	Overcoming Barriers to Climate Adaptation in the Energy Sector with the Resilience Approach
	5.2.5	Ros Cornforth, Reading University / Geography and Environmental Science, Great Britain	Weathering the drought: Resilience strategies for local adaptation under extreme risk and uncertainty
	5.2.6	Anna Timonina, International Institute for Applied System Analysis / Risk, Policy and Vulnerability, Austria	Optimal Strategies for Risk-Management of Catastrophic Events

6e	ROOM 1	ADAPTATION STRATEGIES AND PLANNING - ON CITIES	
	Chair	Jill Jäger, Martin-Luther-Universität Halle-Wittenberg, Halle, Germany / Martin Parry, Imperial College London, United Kingdom	
		Author	Title
	5.1.1	Sonja Deppisch, HafenCity University / urban planning - plan B:altic, Germany	Dealing with climate change impacts in urban regions: Ethical implications for land-use planning
	5.1.2	Kerstin Krellenberg, Helmholtz Centre for Environmental Research - UFZ / Urban and Environmental Sociology, Germany	Cities and Climate Change Adaptation - From Planning to Implementation
	5.1.3	Heidi Kreibich, German Research Centre for Geosciences (GFZ) / Section Hydrology, Germany	Private building precautionary measures contribute to integrated flood risk management and support climate change adaptation
	5.1.4	Christine Wamsler, LUCSUS (Lund University Centre for Sustainability Studies), Sweden	Distributed Urban Risk Governance and Planning
	5.1.5	Marie-Edith Ploteau, Lipperverband / Strategic Affairs - European Cooperation Projects, Germany	Computer-aided guidance to adaptation in European cities
	5.1.6	L. Andrew Bollinger, Delft University of Technology / Section Energy & Industry, The Netherlands	Evolving a climate change resilient electricity infrastructure in The Netherlands

7a	ROOM 5	MAINSTREAMING CLIMATE ADAPTATION - POLICY	
	Chair	Richard Klein, Stockholm Environment Institute, The Netherlands / Frans Berkhout, VU University Amsterdam, The Netherlands	
		Author	Title
	5.5.1	Tim Rayner, Tyndall Centre for Climate Change Research / School of Environmental Sciences, University of East Anglia, Great Britain	Climate policy mainstreaming in the EU: origins, opportunities and limits
	5.5.2	Susanne Hanger, International Institute for Applied Systems Analysis / Risk, Policy and Vulnerability Program, Austria	Supporting adaptation through European cohesion policy
	5.5.3	Axel Volkery, Institute for European Environmental Policy, Belgium	Supporting Europe's adaptation to climate change: climate-proofing investments and measures under the future EU Cohesion and Regional Policy.
	5.5.4	Julian Wright, Environment Agency, Great Britain	Mainstreaming climate change concerns into the EU Water Framework Directive: progress to date and barriers to further implementation
	5.5.5	Caroline Uittenbroek, Utrecht University / Geosciences / Urban Planning, The Netherlands	Identifying and explaining differences and similarities in climate adaptation beliefs within Dutch municipalities: using Q methodology
	5.5.6	Dave Huitema, VU Amsterdam / IVM, The Netherlands	Mainstreaming EU climate policy. A comparative analysis of progress in the water and cohesion policy 'sectors'.

8	ROOM 3 ADAPTATION CASES STUDIES: ORGANISATIONAL, SECTORAL AND REGIONAL	
Chair	Martina Floerke, Universität Kassel, Germany / Karl-Heinz Simon, Wissenschaftliches Zentrum für Umweltsystemforschung, Kassel, Germany	
	Author	Title
5.3.1	Anna Pechan, Institute for Ecological Economy Research / Corporate Environmental Management, Germany	Limiting Factors for a Robust Railway System – the Case of Germany
5.3.2	Christian Bogmans, VU University Amsterdam / Department of Spatial Economics, The Netherlands	Optimal Adaptation of Thermal Power Plants
5.3.3	Gregor Vulturius, Umeå University / Geography and Economic History, Sweden	Climate Change Adaptation and the Swedish Insurance Industry
5.3.4	Marco Pütz, Swiss Federal Institute for Forest, Snow and Landscape Research / Economics and Social Sciences, Switzerland	Assessing the climate change fitness of spatial planning in the Alpine space
5.3.5	Bernd Eggen, Health Protection Agency / Air Pollution and Climate Change Group, Great Britain	Adaptation to Changes in Ambient Temperature and Implications for Public Health
5.3.6	Winfried Osthorst, University of Applied Science Bremen / Social Sciences, Germany	Climate adaptation versus sustainability? Strategies emerging within the port and logistics sector of Northwest Germany
5.3.7	Ana Nikezić, PhD student / Faculty of Architecture, Serbia and Montenegro	Belgrade shipyard as a potential resource in the process of adaptation to climate change

9	ROOM 6 MONITORING AND MEASURING ADAPTATION	
Chair	Rob Tinch, University of Anglia, Norwich, United Kingdom / Tim Rayner, University of East Anglia, Norwich, United Kingdom	
	Author	Title
5.6.1	Frans van de Ven, Deltares / Urban Water Management, The Netherlands	Evapotranspiration and the Urban Heat Island
5.6.2	Hartmut Hein, German Federal Institute of Hydrology, Germany	The long way from uncertain data and knowledge to adaptive management of coastal waterways
5.6.3	John Gardner, CSIRO / Ecosystem Sciences, Australia	Longitudinal monitoring of adaptation activities in Australian organisations
5.6.4	Romain Weikmans, Université Libre de Bruxelles / Centre for Studies on Sustainable Development, Belgium	What do adaptation aid actions look like? The Adaptation Fund as a case study
5.6.5	Lucy Faulkner, ICCCAD (International Centre for Climate Change and Development) / ARCAB (Action Research for Community Adaptation in Bangladesh), Bangladesh	Moving Towards Transformed Resilience Monitoring and Evaluating Community-Based Adaptation

12b	ROOM 7	COMMUNICATING IMPACTS, VULNERABILITY AND ADAPTATION - ADVISORY SERVICES AND PARTICIPATORY APPROACHES	
	Chair	Pier Vellinga, Wageningen University and Research Centre, The Netherlands	
		Author	Title
	5.7.1	Julian Wright, Environment Agency / Climate Ready Support Service, Great Britain	Adaptation advice and delivery in England: The Environment Agency Climate Ready Support Service
	5.7.2	Jean Palutikof, Griffith University / NCCARF, Australia	NCCARF's Adaptation Conversation: Delivering evidence for policy making to achieve effective adaptation
	5.7.3	Fanny Frick, Humboldt-University of Berlin / Geography, Germany	The socio-cultural construction of willingness to adapt in coastal communities in the USA with reference to coastal communities in Europe
	5.7.4	Thomas Zimmermann, HafenCity Universität Hamburg, Germany	Assessing participatory planning approaches in climate change adaptation: The case of scenario-based landscape planning in Gartow
	5.7.5	Maja Rotter, Institute for Ecological Economy Research, Germany	Stakeholder Participation in Adaptation to Climate Change – Lessons and Experience from German Dialogue Processes

3b	ROOM 8	ECONOMICS OF ADAPTATION - INSTITUTIONAL ECONOMICS OF CLIMATE CHANGE ADAPTATION	
-----------	---------------	---	--

Adaptation is being framed in standard economic terms as the decision about efficiently allocating resources to manage risks within given markets. In many cases, this standard framing is unsuitable. It disregards the wider social and institutional dimensions which are particularly relevant as adaptation involves public and private decisions and institutional change at multiple levels. Promising alternative approaches, such as institutional economics, are offered for which there are at present few applications. In this session we want to explore those aspects of adaptation processes where institutional economics provides useful insights. We point at co-ordination issues, where the interplay between multiple actors depends on the “transaction costs” for different governance arrangements. The following questions will be addressed: governance challenges in the context of climate change adaptation, necessary institutional change to increase the ability of current institutions, approaches to institutional economics.

Organizer	Jochen Hinkel, Global Climate Forum (GCF), Berlin, Germany	
Chair	Jochen Hinkel, Global Climate Forum (GCF), Berlin, Germany	
	Author	Title
5.8.1	Matteo Roggero, Humboldt Universität zu Berlin / Ressourcenökonomie / Umweltgovernance, Germany	Institutional (Climate) Change - Exploring climate adaptation through institutional analysis
5.8.2	Sandy Bisaro, Global Climate Forum / Adaptation and Social Learning, Germany	Ecosystems and institutional fit: governing ecosystem service provision for climate adaptation
5.8.3	Christoph Oberlack, University of Freiburg / Department of Economic Policy, Germany	Towards an institutional economics programme of climate change adaptation: What can we learn from existing empirical case-study evidence?
5.8.4	Sergio Villamayor Tomas, Indiana University / Workshop in Political Theory and Policy Analysis, USA	Coping with climate change through the commons: A statistical analysis of robustness to droughts in Spanish irrigation systems
5.8.5	Anna-Katharina Topp, Helmholtz Centre for Environmental Research – UFZ / Economics, Germany	Which mode of funding developing countries' climate policies under the post-Kyoto framework?

3a ROOM 14 ECONOMICS OF ADAPTATION - CHALLENGES TO RESPOND TO LOSS AND DAMAGE OF CLIMATE CHANGE

The 'Loss and Damage' work programme, established under the UNFCCC framework, is considering approaches to address loss and damage associated with climate change impacts in developing countries that are particularly vulnerable to climate change. This concept has started occupying a particular niche within the international adaptation debate, with views and definitions varying widely across stakeholders. Some of the key challenges mentioned in the context of this work programme, such as framing loss and damage concepts, the use of science, climate attribution, the role of the private sector and suitability of risk transfer are relevant beyond the loss and damage debate, and feature in the current European adaptation discourse. This session will bring together scientists and practitioners with on-the-ground experience of loss and damage projects to discuss challenges and identify how to work together to achieve the best adaptation outcomes. This session aims at opening up the "Loss and Damage" discussion to the wider European adaptation community, instigating a 'two way' dialogue about concepts, challenges and future questions.

Organizer	Swenja Surminski, London School of Economics, United Kingdom	
Chair	Swenja Surminski, London School of Economics, United Kingdom	
	Author	Title
	Joern Brinkmann, United Nations University	the concept
	Reinhard Mechler, IIASA, Austria	the economics
	Ana Lopez, London School of Economics, United Kingdom	the science
	Miwa Kato, UNFCCC	policy making at UN level
	Roda Verheyen, Rechtsanwälte Günther	legal aspects for policy makers
	Koko Warner or Soenke Kreft, MCII/German-watch	insurance
	Kashmala Kakakhel or Tom Mitchell, Climate and Development Knowledge Network CDKN	case expertise

6b ROOM 11 ADAPTATION STRATEGIES AND PLANNING - ADAPTIVE DELTA MANAGEMENT AND DECISIVE POINTS IN CLIMATE CHANGE ADAPTATION

To warrant long-term water safety and fresh water supply, and to capitalise new opportunities in water management, The Netherlands has embarked on the so-called Delta Programme. The programme deals with uncertainties in future climate, but also in population, economy and society. This requires a new way of planning, adaptive delta planning: to develop adaptation pathways over time, to value flexibility, and to avoid 'lock-in'. In the session we share experience with adaptive delta planning in Europe and Asia. In particular, the session will discuss the question of how much longer current policies and management practices are expected to suffice and when adjustments will be required. How to determine the right moment for action? How do thresholds in the physical domain relate to those in the policy domain? The session will offer examples of how the assessment of critical thresholds, adaptation tipping points and turning points allows to identify decisive moments in climate change adaptation and plan for adaptive action. The session builds on the experience of the Dutch Network Adaptive Delta Management and the European research project MEDIATION (Methodology for Effective Decision-making on Impacts and AdaptATION).

Organizer	Saskia Werners, Wageningen UR, The Netherlands / Ad Jeuken, Deltares, The Netherlands	
Chair	Wil Thissen, TU Delft, The Netherlands	
	Author	Title
	Pieter Bloemen, Delta Programme, The Netherlands	
	Maarten van der Vlist, Dutch Ministry of Infrastructure and the Environment, Wageningen UR, The Netherlands	

7a ROOM 9 MAINSTREAMING CLIMATE ADAPTATION - ASSESSING OPTIONS FOR GOVERNANCE IN CLIMATE CHANGE ADAPTATION FROM REGIONAL EXPERIENCES

Adapting to climate adaptation means: don't talk but act. However, in this session we talk about action. In many European countries experience has been gained about climate change adaptation at a regional level. Regional networks have been developed to pool scientific, entrepreneurial and administrative competence of regional stakeholders and to jointly develop solutions and strategies. Good examples are the seven KLIMZUG model regions in Germany. There is a great interest to learn from other regional experiences and to identify success and constraints of the governance of climate change adaptation. The session intends to stimulate (i) a dialogue with people from public authorities, scientists and entrepreneurs and (ii) the creation of a network of KLIMZUG model regions, Climate-KIC Partners and other interested institutions to disseminate experiences and the scale them up to a European level. Governance tools related to participatory governance, adaptation of the regulatory framework, science-policy interaction, climate adaptation communication and strategy building will be introduced and good practices will be presented. We aim to provide a venue for dialogue between scientist and practitioners about opportunities, success factors and barriers for regional climate change adaptation and about scaling up and dissemination of good practice at a European level.

Organizer	Anna Bratt, Länsstyrelsen Östergötland, Sweden / Marcus Steffens, University of Kassel, Germany	
Chair	Anna Bratt, County Administrative Board Östergötland, Sweden	
	Author	Title
	Alexander Roßnagel, University of Kassel/ KLIMZUG-Nordhessen, Germany	Legal aspects of the governance of climate change adaptation
	Manuel Gottschick, University of Hamburg/ KLIMZUG-NORD, Germany	Embedding Climate Change Governance of Climate Change Adaptation: the role of interests, conflicts and annoying societal plurality
	Susanna Kankaanpää, Helsinki Regional Environmental Services, Finland	Helsinki Regional adaptation strategy
	Jens Hasse, Forschungsinstitut für Wasser und Abfallwirtschaft an der RWTH Aachen (FIW) e.V., Germany/dynaklim	Roadmap 2020: Towards a regional strategy for climate change adaptation

11a ROOM 10 ROLE OF TOOLS AND KNOWLEDGE IN ADAPTATION - SCIENCE-PRACTICE LAB FOR DECISION SUPPORT: THE PRACTICE OF 'SERIOUS GAMING' (PART 2)

Many tools have been developed to support decision making under the uncertainty of climate change. However, when applying the tools in actual policy-making situations, limitations surface. The most appropriate tools can be developed by a continuous dialogue between scientists and practitioners in a recurrent process of testing and improving. This session will be exploring the concept of science-practice labs and other tools and mechanisms for implementing this and to co-create new knowledge relevant for decision-making. In the first part of the session, participants can actively engage in the Sustainable Delta Game, a tool successfully used to support decision-making processes in integrated and adaptive water management in The Netherlands. In the second part of the session, a number of additional experiences in Europe with decision-support tools for flood risk management and delta development will be presented and discussed. The main objectives of the session are to strengthen the emerging European network of researchers and practitioners involved in assessment of risks and opportunities and to identify research needs on decision support tools by practitioners. The results will be used in the programming of JPI Climate, a collaborative programme of national research funding agencies in Europe.

Organizer	Rob Swart, Wageningen UR, The Netherlands / Cees van de Guchte, Deltares, The Netherlands / Ingrid de Koning, Alterra/Deltares, The Netherlands	
Chair	Rick Heikoop, Rotterdam University of Applied Sciences, The Netherlands	
	Author	Title
	Carlo Giupponi, University of Venice, Italy	Venice
	Bert Hooijer, Rotterdam University of Applied Sciences, The Netherlands	Delta Centres
	Mark Stratton, Havant Borough Council, United Kingdom	The PUSH Strategic Flood Risk Assessment/ funding decision support tool
	Annemarie Groot, Alterra, The Netherlands	Towards a climate change adaptation science-practice research agenda and science-practice community for JPI climate, discussion and brainstorm with the audience

IVb ROOM 13 BEST PRACTICES - ADAPTATION OF EUROPEAN FORESTS TO CLIMATE CHANGE

MOTIVE assessed the impacts of climate change on major European forest services and developed adaptation strategies jointly with regional stakeholders. INKA BB and Klimzug Nordhessen adopted two complementary approaches: (a) development and initiation of site-specific adaptation options, and (b) scientific work on a regional scale aimed at sharing current research results and knowledge. Key results from the projects are presented, focusing on successful adaptation strategies for forest management. Key stakeholders are invited to discuss suitable adaptive management strategies for Europe's forests in the face of uncertainty. Discussion topics include climatic and socio-economic trends, state-of-the-art models, advanced adaptation strategies for forest management, socio-economic aspects of adaptation, improved decision support and communication tools. The session aims to improve the understanding of practitioners of the impacts of climate change on ecosystems, goods and services of European forests. The applicability of key adaptation measures in space and time (not every strategy is applicable everywhere and anytime) will get attention. Participants will learn about adaptation strategies based on advanced models. These strategies will be discussed from a practical point of view. Scientists gain better understanding of needs and challenges faced by forestry practitioners. A decision support toolbox will be presented.

Organizer	Ulla Vanttinen, European Forest Institute; Martin Guericke / Jens Schröder, University of Applied Sciences Eberswalde, Germany	
Chair	Marcus Lindner, European Forest Institute, Joensuu, Finland	
	Author	Title
	Marc Hanewinkel, Swiss Federal Research Institute WSL, Birmensdorf, Switzerland, MOTIVE	
	Martin Guericke, University of Applied Sciences, Eberswalde, Germany, INKA BB	
	Johannes Eichhorn, North-West German Forest Research Institute, Germany, Klimzug Nordhessen	
	Thomas Hauck, Stadtverwaltung Baden-Baden, Germany	
	Sander Wijdeven, Dutch State Forestry Agency, Sweden	

Va ROOM 12 CLIMATE ENGINEERING - CLIMATE ADAPTATION ENGINEERING: MANAGING CLIMATE CHANGE BY ENGINEERING SOLUTIONS (PART 2)

While applications of traditional engineering ensure the safety, serviceability, durability of current built environment, the integration of climate change science and engineering provides broader opportunities to ensure urban and coastal built environment adaptation strategies are harmonised for maximum benefit under a changing climate in the future. There have been some researches to apply traditional engineering concepts to accommodate the impact of future changing climate, but lack of a platform to systematically identify efficient and cost-effective engineering solutions for climate adaptation. An attempt is being made to create a platform for scientists, engineers, public policy decision-makers, and other stakeholders, by linking engineering practices to climate change research and providing adaptation options particularly relevant to built assets. It advocates the engineering concepts that take into account the risks of changing climate into technological and engineering solutions, and that increase the adaptive capacity of built environments. The platform will also facilitate the development of decision pathways adapting to changes through planning, design, construction, maintenance and renewal over the lifecycle of the built environment. The overall goal of the session is to enhance the international research interests and collaboration through this platform in the emerging research area of climate adaption engineering.

Organizer	Xiaoming Wang, CSIRO, Australia / Marc G. Stewart, The University of Newcastle, Australia	
Chair	Xiaoming Wang, CSIRO, Australia / Mark G. Stewart, The University of Newcastle, Australia	
	Author	Title
	Kazuyoshi Nishijima, University of Denmark	Adaptation efficiency in climate change for typhoon induced wind risk of residential buildings in Japan
	Glenn Schrader, University of Arizona Tucson, USA/ Frank Princiotta EPA, USA	Socio-Technological Approaches for Water, Energy, and Materials Utilization
	Kevin Lansey, University of Arizona Tucson, USA	Sustainable, Resilient, Robust Water Infrastructure Planning Under an Uncertain Future
	Mark G Stewart, University of Newcastle, Australia	Risk and Cost-Benefit Assessment of Climate Adaptation Strategies for Built Infrastructure
	John Dora, J.D. Consulting Limited, United Kingdom	Business Change - turning Science into Steady State Delivery

WEDNESDAY, 20 MARCH 2013

08:00 - 15:00	Registration
09:00 - 15:00	Poster Exhibition
09:00 - 15:00	Exhibition
09:00 - 10:00	Plenary session Plenary lecture: Diana Liverman, University of Arizona, "Surviving and thriving in a warmer world: some challenges for adaptation" Plenary lecture: Stéphane Hallegatte, World Bank, "Obstacles to adaptation: an economic perspective"
10:00 - 10:30	Coffee Break
10:30 - 12:15	Parallel sessions F Science sessions Special science sessions Science-practice and practitioner sessions
12:15 - 13:15	Lunch
12:15 - 13:15	Extra session: "The European Climate Change Adaptation Platform (CLIMATE -ADAPT) - what it can do for you"
13:15 - 14:45	Plenary session Round Table discussion: Facilitator: Marc Gramberger, Prospex, Keerbergen • Rosário Bento Pais, European Commission, DG Climate Action • Frans Berkhout, VU University Amsterdam • Paulien Hartog, Waternet Amsterdam • Daniela Jacob, Climate Service Center Hamburg • Alex Nickson, Greater London Authority Best poster and Best PhD Award Closing remarks
14:45 - 15:15	Coffee Break
15:15 - 18:00	Tour 1: Public flood protection in Hamburg Tour 2: HafenCity Hamburg Tour 3: IBA International Building Exhibition Hamburg Tour 4: DKRZ - High Performance Computing for Earth System Research

PARALLEL SESSIONS F WEDNESDAY, 10:30 - 12:15

2	ROOM 2	RISK ASSESSMENT	
	Chair	Paula Harrison, University of Oxford, United Kingdom / Jochen Hinkel, Global Climate Forum, Berlin, Germany	
		Author	Title
	6.2.1	Liang Yang, Research Group of Climate Change & Security / Institute of Geography and KlimaCampus, University of Hamburg, Germany	Flood risks and urban responses under a changing climate: Application of a multi-agent model in Shenzhen, China
	6.2.2	Nina Pirttioja, Finnish Environment Institute (SYKE) / Climate Change Programme, Finland	Using impact response surfaces to map yield likelihoods under probabilistic future climates
	6.2.3	Kumbirai Musiyiwa, Hamburg University of Applied Sciences / Faculty of Life Sciences, Germany	An assessment of maize yield response to climatic and non-climatic variables and perceptions of crop production constraints of Zimbabwean smallholder farmers
	6.2.4	Tobias Lung, European Commission Joint Research Centre (JRC) / Institute for Environment and Sustainability, Italy	Assessment of the influence of climate model uncertainty on EU-wide climate change impact indicators
	6.2.5	Paul Hunter, University of East Anglia / Norwich School of Medicine, Great Britain	Risk of waterborne disease with climate change

6f	ROOM 1	ADAPTATION STRATEGIES AND PLANNING - ON SECTORS	
	Chair	Jill Jäger, Martin-Luther-Universität Halle-Wittenberg, Halle, Germany / Martin Parry, Imperial College London, United Kingdom	
		Author	Title
	6.1.1	Arie de Jong, Utrecht University / Copernicus Institute of Sustainable Development, The Netherlands	Resilience as a strategy for adaptation of fresh water systems to uncertain future changes in the climate
	6.1.2	Frans Klijn, PBL The Netherlands Environmental Assessment Agency, The Netherlands	Governmental responsibilities in relation to the new Dutch flood risk management policy
	6.1.3	Maria Falaleeva, University College Cork / Coastal and Marine Research Centre, Ireland	Adaptive Co-Management for mainstreaming climate adaptation into coastal governance in Ireland. CLAD Tool-Kit for coastal resilience and climate adaptation.
	6.1.4	Darja Tretjakova, Rotterdam University of Applied Sciences / Watermanagement, The Netherlands	Ports and climate adaptation: Managing flood risk in international harbors
	6.1.5	Ron Franken, PBL, The Netherlands Environmental Assessment Agency, The Netherlands	Options for climate-proofing Dutch freshwater supplies

7b	ROOM 3	MAINSTREAMING CLIMATE ADAPTATION - IMPLEMENTATION	
	Chair	Richard Klein, Stockholm Environment Institute, The Netherlands / Frans Berkhout, VU University Amsterdam, The Netherlands	
		Author	Title
	6.3.1	Pam Berry, University of Oxford / Environmental Change Institute, Great Britain	Opportunities for cross-sectoral mainstreaming of adaptation
	6.3.2	Simon Duffield, Natural England / Evidence & Analysis, Great Britain	Delivering adaptation for the natural environment through agri-environment schemes
	6.3.3	Sandra Naumann, Ecologic Institute, Germany	The use of ecosystem-based approaches to climate change adaptation and mitigation: barriers and success factors
	6.3.4	Nadia Koukoui, Utrecht University / Geosciences, The Netherlands	Adaptation Tipping Points for the Management of Urban Flood Risk - Case Study in Dordrecht, The Netherlands
	6.3.5	Patrick Driscoll, Aalborg University / Department of Planning, Denmark	Synergies, Conflicts, and Trade-offs of C40 Cities Adaptation Strategies
	6.3.6	Chang Ching-Cheng, National Central University / Center for Environmental Studies, Taiwan	Do we really need to address "climate" adaptation? A lesson from a low-lying coastal village of Taiwan

9	ROOM 4	MONITORING AND MEASURING ADAPTATION	
	Chair	Rob Tinch, University of Anglia, Norwich, United Kingdom / Tim Rayner, University of East Anglia, Norwich, United Kingdom	
		Author	Title
	6.4.1	Mike Harley, Climate Resilience Limited / Director, Great Britain	A conceptual framework for developing adaptation indicators
	6.4.2	Johann Jacob, École nationale d'administration publique (ENAP) / Centre de recherche et d'expertise en évaluation (CREXE), Canada	Evaluating adaptation to climate change: Analytical conceptualization and application in cost-benefit analysis
	6.4.3	Kaj van de Sandt, Wageningen UR / ESS, The Netherlands	Framework for monitoring and evaluation of adaptation policies
	6.4.4	Timo Leiter, German Development Cooperation / Competence Centre for Climate Change, Germany	Comparing the evaluation frameworks of European National Adaptation Strategies

10b	ROOM 5	IMPACT AND EFFECTIVENESS STUDIES - ADAPTATION	
	Chair	Paul Hunter, University of East Anglia, Norwich, United Kingdom / Rob Swart, Wageningen University, The Netherlands	
		Author	Title
	6.5.1	Wim de Vries, Alterra, Wageningen University and Research centre / Alterra, The Netherlands	Agricultural adaptation to climate change under different policy environments in the European Union – An integrated assessment of the impacts
	6.5.2	Robert J. Nicholls, University of Southampton / Faculty of Engineering and the Environment and Tyndall Centre for Climate Change Research, Great Britain	Socio-economic impacts of future changes in flooding and the implications of adaptation in Europe

6.5.3	Hilaria Badival, Department of Agriculture-Cordillera Administrative Region / Department of Agriculture, Philippines	Indigenous Farmers' Practices and Innovations in Response to Climate Change in the Cordilleras, Philippines
6.5.4	Stephen Hutton, World Bank Group / Independent Evaluation Group, USA	Assessment of the World Bank Group experience with climate change adaptation
6.5.5	Stelios Grafakos, Erasmus University Rotterdam / Institute for Housing and Urban Development (IHS), The Netherlands	Towards an integrated Evaluation framework of Climate Change Adaptation projects

11d ROOM 6 ROLE OF TOOLS AND KNOWLEDGE IN ADAPTATION - PARTICIPATORY METHODS

Chair	André Jol, European Environment Agency, Copenhagen, Denmark / Ian Holman, Cranfield University, Bedford, United Kingdom	
	Author	Title
6.6.1	Ben Schaap, Wageningen UR / Plant Research International - Agrosystems Research, The Netherlands	Participatory design of farm level adaptation to climate risks in an arable region in The Netherlands
6.6.2	Armando Lamadrid, CICERO (Center for International Climate and Environmental Research - Oslo), Norway	Participatory Mapping for Drought Resilience in Jalna District, Maharashtra, India
6.6.3	Amila Jayasinghe, Lecturer / Town & Country Planning, Sri Lanka	Participatory GIS as a tool for Flood Mapping in climate change adaptation; A study of Batticaloa City, Sri Lanka
6.6.4	Ralph Lasage, VU University Amsterdam / Institute for Environmental Studies, The Netherlands	ADAPTS, an approach for including community based adaptation in the water sector, based on experiences in Ghana, Vietnam, Ethiopia and Peru.
6.6.5	Silke Beck, UFZ Leipzig / Environmental politics, Germany	From climate service to climate pragmatism. The role of expertise in adaptation governance

12c ROOM 7 COMMUNICATING IMPACTS, VULNERABILITY AND ADAPTATION - POLITICAL AND EMPOWERMENT ISSUES

Chair	Pier Vellinga, Wageningen University and Research Centre, The Netherlands	
	Author	Title
6.7.1	Benjamin Preston, Oak Ridge National Laboratory / Environmental Science Division, USA	Multi-Criteria Analysis and Visualisation of Coastal Adaptation Options for Local Government
6.7.2	Christian Kind, adelphi research gemeinnützige GmbH, Germany	Analysing the communication of extreme events in the German print media
6.7.3	Julia Reinhardt, Potsdam Institute for Climate Impact Research / Climate Impacts and Vulnerabilities, Germany	Visualizing and structuring outcomes of multi-stakeholder dialogues on drivers of global and regional change and their impacts on natural resources management – Comparison of five meso-scale case studies in Africa
6.7.4	Maria Cecilia Trannin, Institution: Universidade Estácio de Sá / Environment, Brazil	Climate Change in the Brazilian Undergraduate Students Mind: Brazilians Global Warming Beliefs, Attitudes and trust in 2013
6.7.5	Lene Alsbjörn, Birgitte Hoffmann / Department for Planning, Denmark	Good bye to the invisible city. How rainwater changes urban assemblages reconfiguring citizens' roles in urban regimes

1a ROOM 10 CLIMATE VULNERABILITY ASSESSMENT - REGIONAL CLIMATE CHANGE - IMPACTS AND VULNERABILITIES UNDER 2°C-WARMING

A so called “2° reduction target”, originally proposed by G8 countries at their meeting in United Kingdom in 2005, and further agreed upon by EU and world leading economies in L’Aquila, Italy in 2009, has been a trigger for many research initiatives and modeling studies ever since. However, by far the largest majority of these studies focus on so called climate sensitivity, addressing the actual relationship between a magnitude and timing of a particular, “maximum allowable” atmospheric GHG concentration, and the resulting (global) average warming of a maximum of 2° C. Many other studies concentrate on socio-economic paths towards achieving this maximum allowable atmospheric GHG concentration, and the economic and social implications of achieving ambitious, in many ways unprecedented, emissions reduction targets resulting from limiting the average global warming to a maximum of 2° C. Comparatively, very little research has been done so far on consequences, impacts, cost and benefits of limiting the warming to a global average of 2° C. This is especially the case for regional impacts and consequences, including Europe. Science based and well consolidated information on the overall (residual) impacts and benefits of the “capping” the global average warming at the level of 2° C, as assessed by the IMPACT 2C project, is urgently needed to support current and future EU economic, environmental and climate policies, and EU position in international negotiations. It is also needed in support of a better coordination and information sharing between Member States on climate adaptation, and to ensure that climate adaptation strategies are mainstreamed into all relevant EU policies.

Organizer	Daniela Jacob, Climate Service Center (CSC), Hamburg, Germany	
Chair	Daniela Jacob, Climate Service Center (CSC), Hamburg, Germany	
	Author	Title
6.14.1	Dan Balteanu, Romanian Academy, Institute of Geography, Bucharest, Romania	
6.14.2	Daniela Jacob, Climate Service Center (CSC), Hamburg, Germany	
6.14.3	Antonio Navarra, Euro-Mediterranean Centre for Climate Change (CMCC), Italy	
6.14.4	Franz Prettenhaler, Joanneum Research, Graz, Austria	
6.14.5	Paul Watkiss, University of Oxford, United Kingdom	

1a ROOM 12 CLIMATE VULNERABILITY ASSESSMENT - RISKS FROM URBAN FLOODING - INTERACTIVE SCIENCE AND POLICY ASSESSMENT

Hazard maps can visualize key decision making issues and in this way encourage scientists and practitioners to collaborate. This session demonstrates an approach for interactive science and policy collaboration on climate risk management in urban areas. The approach illustrates how practitioners and experts can work together on specific city challenges. Decision makers and experts engage in an interactive dialogue on city vulnerability to extreme precipitation. The ambitious green development and climate strategy of Copenhagen city is used as a case example. Practitioners (city planners) introduce plans and priorities for climate policies, smart energy, green areas, transport, housing, and high quality city life, and experts support decisions by integrated assessment modelling with detailed representations of flooding risks and key city activities. The role of policy makers, city planners and stakeholders, is to select major impact areas and to state priorities and policy preferences that in the next step are modelled. Experts and practitioners then have a discussion about how future city plans and objectives could be aligned with climate change adaptation, and how detailed GIS based models can be further developed to reflect key decision making issues.

Organizer	Kirsten Halsnaes, Technical University of Denmark (DTU)	
Chair	Hans von Storch, Institute for Coastal Research, Helmholtz-Zentrum Geesthacht, Germany	
	Author	Title
	Kirsten Halsnæs, Technical University of Denmark/Hans von Storch, Institute for Coastal Research, Germany	Decision Making Approach and Analytical Tools
	Rainer Scheppelmann, City of Hamburg, Germany	Hamburg City Center perspectives and Priorities
	Lykke Leonardsen, City of Copenhagen, Denmark	Copenhagen City Perspectives by Head of Centre
	Per Kaspersen, Technical University of Denmark	modelling results

7b ROOM 14 MAINSTREAMING CLIMATE ADAPTATION - FROM BUILDING CAPACITY TO TAKING ACTION: LESSONS FOR AN INTEGRATED APPROACH

Scotland has a world leading climate change policy and is soon to have a statutory adaptation programme to increase Scotland's resilience to a changing climate. This session will introduce Scotland's developing support services and show how these are coordinating with European initiatives to build the capacity of local decision-makers and practitioners to take adaptation action. The main focus will be on the experience of practitioners who received capacity building support – and how this is leading to progress in taking adaptation action in a range of sectors, including urban and rural planning, the natural environment, and forestry. Particular attention will be given to the importance of cross-sectoral awareness in climate change adaptation as illustrated by the web-based CLIMSAVE Integrated Assessment Platform, an interactive exploratory tool developed for Europe and Scotland. The session will end with a facilitated panel discussion, bringing together Scottish and European stakeholders to discuss what lessons can be learnt from the integrated approach in Scotland, and how these lessons could be used to support other European regions.

Organizer	Marc Metzger, The University of Edinburgh, Scotland	
Chair	Marc Gramberger, Prospex bv, Belgium	
	Author	Title
	Marc Metzger, University of Edinburgh, United Kingdom	The European context for adaptation action on the ground
	Iain Brown, climateXchange/James Hutton Institute, United Kingdom and Dr Joseph Hagg, Adaptation Scotland, United Kingdom	Scottish context– Policy, capacity building, and supporting for action
	Jim Densham, RSPB	Environment Link
	Graham Esson, Perth and Kinross council	Rural adaptation
	Sonia Milne, Glasgow City council	Urban adaptation
	Mary Christie, Scottish Natural Heritage	Adapting nature conservation
	Paula Harrison, University of Oxford	CLIMSAVE - Integrated assessment methodology for exploring cross-sectoral climate change impacts, adaptation and vulnerability

11b ROOM 11 ROLE OF TOOLS AND KNOWLEDGE IN ADAPTATION - HOW TO CREATE RESILIENT STORM SURGE PROTECTION USING BUILDING WITH NATURE CONCEPTS

Low-lying, densely populated coastal areas worldwide are under threat, requiring coastal managers to develop new strategies to cope with land subsidence, sea level rise and the increasing risk of storm-surge-induced floods. Traditional engineering approaches optimizing for safety are often suboptimal with respect to other functions and are neither resilient nor sustainable. Densely populated deltas in particular need more resilient solutions that are robust, sustainable, adaptable, multifunctional and yet economically feasible. Innovative concepts such as ‘Building with Nature’ provide a basis for coastal protection solutions that are able to follow gradual changes in climate and other environmental conditions, while maintaining flood safety, ecological values and socio-economic functions. In this session we will use practical examples from fresh water and coastal systems to explore with session participants the generic effectiveness of the examples in the light of sustainability, adaptability and multifunctionality. We will embark on a search for possible applications of the BwN concept and on challenges faced in other systems.

Organizer	Mindert de Vries, Deltares, The Netherlands	
Chair	Erik van Slobbe, Wageningen UR, The Netherlands	
	Author	Title
	Jan Brooke, United Kingdom consultant in the field of Working with Nature	
	Mark Spalding, The Nature Conservancy	
	Huib de Vriend, Ecoshape Foundation	

11c ROOM 9 ROLE OF TOOLS AND KNOWLEDGE IN ADAPTATION - PLANNING CLIMATE ADAPTATION IN THE ENERGY SECTOR

Planning climate change adaptation in the energy sector is a challenge. Uncertainties of the socio-economic transition to a low carbon energy supply play a big role. Good planning requires the right technical and political tools and reliable information to adopt the most appropriate strategies and action plans. The session will address how production and supply of energy will be affected by climate change and how to plan better energy policies if extreme weather events become more intense or water availability for hydropower and cooling of thermal power plants drops. Changing climate conditions influence decisions about plant locations and a changing climate affects the production of wind, solar and biomass. Science based information and technologies play a key role in identifying the climatic conditions. This supports planning of adaptation into energy policies. Adequate information means savings, better stakeholders involvement and increased preparedness and resilience to a changing climate. The session aims to assess: how adaptation fits into the energy sector; what climate information the energy sector needs; where barriers are and how they can be overcome; what role resilience plays to address uncertainties of a regional climate and the socio-economic transition.

Organizer	Eva Banos de Guisasola, Euro Mediterranean Center for Climate Change-CMCC / Giovanni Fini, City of Bologna, Italy	
Chair	Alessandro Lanza, Euro Mediterranean Center on Climate Change, Luiss University, Rome, Italy	
	Author	Title
	Patrizia Gabellini, Councillor for Environment City of Bologna, Italy	Sustainable Energy Action Plan of Bologna
	Jakob Wachsmuth, University of Bremen, Bremen, Germany	Participatory development of a regional road-map towards a resilient and climate-proof energy system
	Domenico Gaudioso, Italian National Institute for Environmental Protection and Research - ISPRA, Italy	the possible impact of climate change on the Italian energy sector
	Jean Palutikof, Griffith University, Gold Coast, Australia	Energy as an overlooked reality of adaptation

Ila ROOM 13 COMMUNICATION AND KNOWLEDGE TRANSFER - BRIDGING POLICIES AND LOCAL ACTION: THE 4-P METHODOLOGY FOR CLIMATE CHANGE COMMUNICATION

Climate change is expected to increase the frequency and intensity of extreme weather events. Consequently, natural disasters will likely be aggravated globally. In face of uncertainties associated with natural disasters, a challenge in risk management is improving adaptive capacity and developing flexibility in response to crises and surprises. In this context, communication plays an essential role to plan resilient communities, capable of preparing for and recovering from such impacts. The aim of the session is to collectively develop a framework that can be used by practitioners for planning climate change communication strategies, focussing on resilience and adaptation to natural disasters. We will introduce the “4-P” methodology, originally developed by Conservation International (CI) for designing conservation awareness strategies. 4-P builds upon assessing problems, identifying the publics to be targeted, determining products to reach these target groups, and designing an action plan. The session is designed to facilitate collaboration among participants and to allow for their active participation. Practitioners and scientists of all countries and backgrounds are welcome to join us.

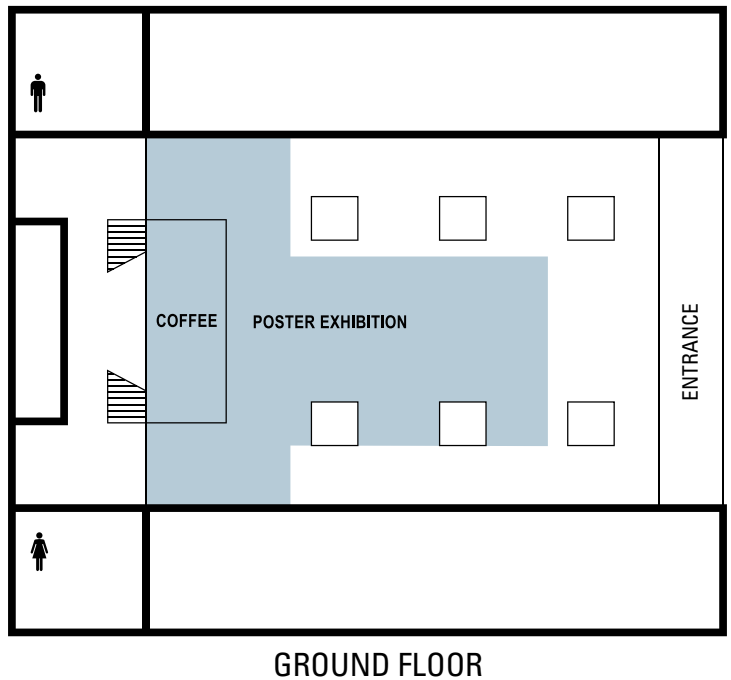
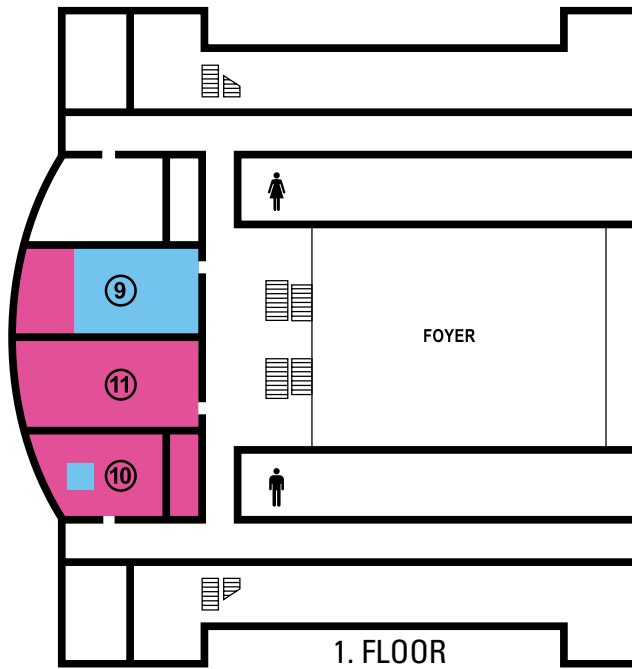
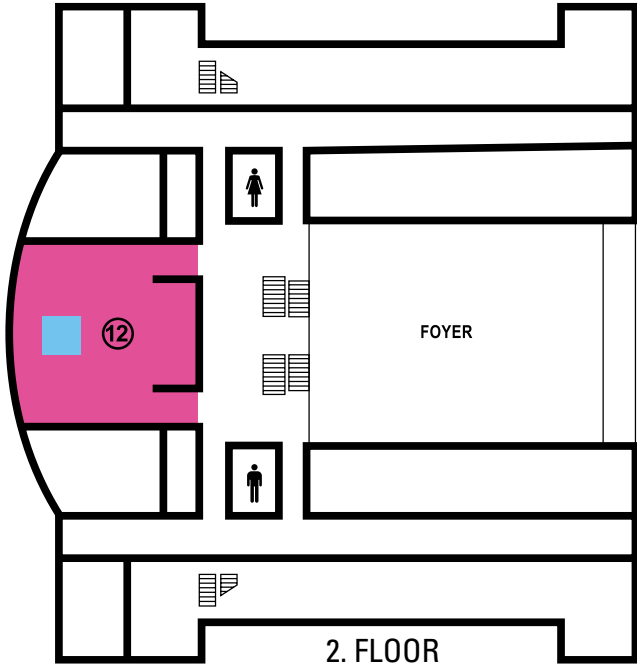
Organizer	Juliana Farinaci, University of Campinas (UNICAMP), Brazil / Maria Cecilia Trannin, University Estacio de Sá, Brazil	
Chair	Juliana S. Farinaci, Maria Cecilia Trannin, Brasil	
	Author	Title
	Juliana S. Farinaci, UNICAMP, Brasil	
	Maria Cecilia Trannin, University Estacio de Sá, Brazil	

IVa ROOM 8 BEST PRACTICES - ADAPTATION IN EUROPE IN PRACTICE: HOW DID THEY DO IT?

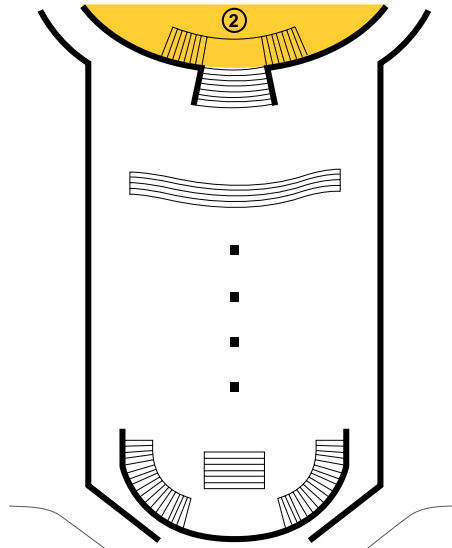
The concept of adaptation remains somewhat elusive to policy makers and practitioners. What does it look like and how do you do it? In practice it turns out not all measures that help natural or human systems to cope with climate change can be defined as adaptation. Implementation may be further along than previously thought, if we are willing to also consider other measures not labelled adaptation. During this session project leaders from five bold and inspiring adaptation projects will explain how they implemented adaptation measures. Learn how no-regret measures are taken that immediately yield positive results and how areas are transformed into climate proof, high-quality surroundings. The session aims to showcase innovative and inspiring examples of implemented adaptation measures in Europe, to exchange knowledge and experience on how to make adaptation possible on a very practical level, to create a platform for asking questions, addressing important topics such as financial arrangement, stakeholder involvement, governance, etc. Jointly we will identify the drivers, discuss how to take advantage of the opportunities and overcome barriers. The case studies are part of the ERA-net CIRCLE-2 programme's Adaptation Inspiration Book, which will be distributed free of charge during the conference.

Organizer	Marjolein Pijnappels, CIRCLE/ Knowledge for Climate, The Netherlands / David Avelar, CIRCLE/ Lisbon University, Portugal	
Chair	Marjolein Pijnappels, Wageningen UR, The Netherlands / David Avelar, CIRCLE/Lisbon University, Portugal	
	Author	Title
	David Singleton, DSA ENVIRONMENT + DESIGN LTD, United Kingdom	Building the climate proof Melton Vale-16 school.
	Sven Kallen, The Green Deserts - LIFE+ project, Spain	The Green Deserts project: reforestation of dry areas with Waterboxxes
	Dorthe Rømø, Municipality of Copenhagen, Denmark	Green roof philosophy: promoting green roofs in Copenhagen
	Marie-Edith Ploteau, Lippeverband, Germany	a blue-green corridor in the city of Kamen
	Christian Dupraz, Inra -French National Institute for agronomical Studies, France	Agroforestry and agrovoltaic practices: combining adaptation of agriculture with generating solar power
	Ulrich Reuter, Municipality of Stuttgart, Germany	Ventilation corridors in Stuttgart to prevent the heat island effect

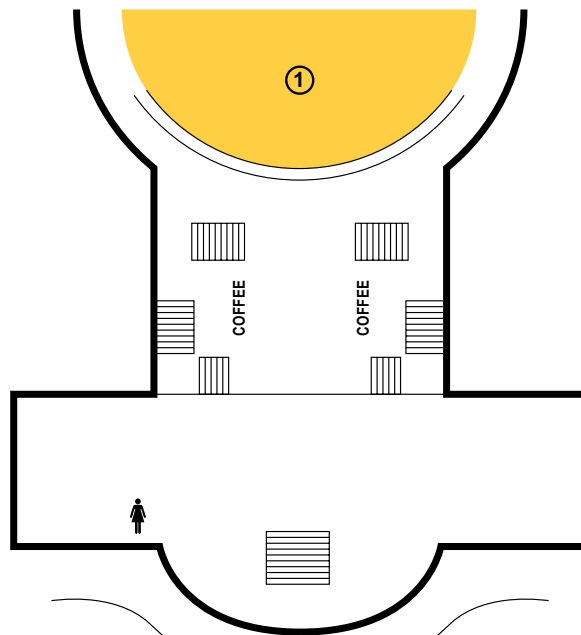
WEST BUILDING



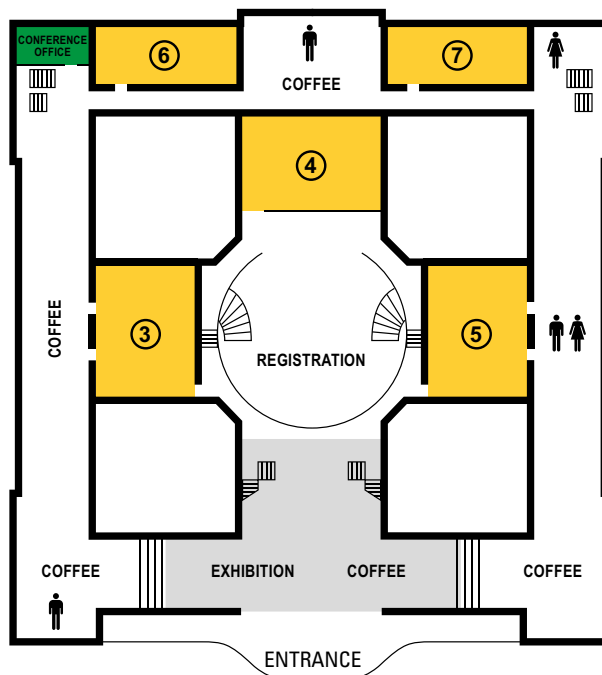
MAIN BUILDING



2. FLOOR



1. FLOOR



GROUND FLOOR

EAST BUILDING

