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Centre de Recherche Public
Gabriel Lippmann



CHR - RheinBlick2050 final colloquium Towards coordinated discharge scenarios for the international Rhine basin Bonn, Germany 13-14 October 2010

Background

According to current climate projections future climate may be characterised by an increase of the climate system's variability which might also be accompanied by changes in the frequency and intensity of meteorological extreme events. Global climate models indicate robust large-scale changes of the precipitation regime (e.g. decrease of summer-, increase of winter precipitation in Central Europe) (e.g. IPCC, 4AR WG1, 2007). Linked to this are modifications of discharge (low flow and high flow) regimes of European Rivers, with variable impacts on managed (anthropogenic) and unmanaged (natural) systems, depending on their sensitivity and vulnerability (ecology, economy, infrastructure, transport, energy production, water management, etc.). Even under an efficient climate change mitigation policy, climate change is going to have impacts in the upcoming years. In this context, decision makers need adequate adaptation strategies to minimize negative effects of climate change, based on up to date knowledge on the potential impacts including uncertainties.

In this context the International Commission for the Hydrology of the Rhine basin (CHR) has carried out the project 'RheinBlick2050' aiming at the development and interpretation of joint, consistent discharge projections for the international Rhine River catchments. The underlying data and information are compiled from different national research projects from the Netherlands, Germany, France and Switzerland and are based on the most actual climate projections. The findings will help to assess future changes of hydro-meteorological conditions in the Rhine River basin and how such impacts influence hydrologic and hydraulic processes. Potential users of the findings and data, stakeholders and decision makers have been involved.

The colloquium will present the results of the RheinBlick2050 project but also results of similar projects in the Rhine basin.

Objectives

- To communicate the state of the art of climate change impacts on the hydrology in the international Rhine River basin
- Presentation of main aspects of the final reporting of the CHR / RheinBlick2050 project

Programme and timetable

Day 1 – 13th October 2010

Chairman: Dr. Hans Moser, Federal Institute of Hydrology (BfG), Coblenz

Registration and luncheon – from 12.00 p.m.

13.00 – 13.30	Welcome, general introduction, goals of Rheinblick2050 – Manfred Spreafico, president of CHR, University of Berne, Berne, Switzerland
13.30 – 14.00	Keynote: “Regional climate modelling within the new IPCC activities: What can we expect from CORDEX?” – Claas Teichmann, Max-Planck-Institute for Meteorology, Hamburg, Germany
14.00 – 14.30	Keynote: “Using multiple climate projections from the EU FP6 ENSEMBLES project for hydrological applications” – Phil Graham, Swedish Meteorological and Hydrological Institute (SMHI), Norrköping, Sweden
14.30 – 15.00	Tea / Coffee
15.00 – 15.30	RheinBlick2050: “Changes in the hydro-meteorological regimes of the Rhine River basin based on bias corrected RCM simulations” – Jules Beersma, Royal Dutch Meteorological Institute (KNMI), De Bilt, Netherlands
15.30 – 16.00	RheinBlick2050: “Hydrological model intercomparison, suitability and robustness studies” – Charles Perrin, Cemagref, Antony, France
16.00 – 16.30	RheinBlick2050: “Changes in the discharge regimes of the Rhine River during the 21st century. Projections and scenarios of mean and low flow” – Enno Nilson, Federal Institute of Hydrology (BfG), Coblenz, Germany
16.30 – 17.00	RheinBlick2050: “High flow changes based on KNMI weather generator data” – Otto de Keizer, Deltares, Delft, Netherlands
19.00	Participants' dinner

Day 2 – 14th October 2010

Chairman: Dr. Bruno Schädler, Geographical Institute of the University Bern

09.00 – 09.30	Keynote: “Conclusions of the RheinBlick2050 project and lessons learned” – Klaus Görge, Centre de Recherche Public – Gabriel Lippmann (CRP-GL), Belvaux, Luxembourg
09.30 – 10.10	“Atmospheric data processing and hydrological modelling of large Swiss basins in the frame of the Swiss CCHydro project” – Thomas Bosshard, Technical University Zurich (ETHZ), Zürich and Massimiliano Zappa, Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Birmensdorf, Switzerland
10.10 – 10.40	“German Federal States activities in relation to climate change impacts along the Rhine River” – Gerhard Brahmer, Hessian State Institute for Environment and Geology, Wiesbaden, Germany
10.40 – 11.10	Tea / Coffee
11.10 – 11.40	“Effects of climate change on groundwater processes in the Upper Rhine River valley” – Florence Habets, CNRS, UMR Sisyphe, Mines-Paristech, Fontainebleau, France
11.40 – 12.10	“Climate change and its impacts on hydrology in Austria” – Ralf Merz, Vienna University of Technology, Vienna, Austria
12.10 – 12.50	Keynote: “Translating research into policy – the ICPR perspective” – Anne Schulte-Wülwer-Leidig, International Commission for the Protection of the Rhine (ICPR), Coblenz, Germany
12.50 – 13.00	Concluding remarks: host and president of CHR
13.00	Closing of the colloquium

Evening event

Participants' dinner at the conference centre on 13 October at 19.00 pm

Language

Working language of the colloquium will be English

Target groups

The event targets representatives from technical government authorities and science.

Registration and organizational details

Participation is limited to approximately 200 persons.

Please register before **September 1, 2010** for the colloquium on the CHR website www.chr-khr.org under events.

Venue

University of Bonn, Wolfgang-Paul-Saal, Konviktstrasse 9, D-53113 Bonn

Hotels

Hotel accommodation must be arranged by the participants themselves. The tourist information website of the city of Bonn

(http://www.bonn.de/tourismus_kultur_sport_freizeit/tourist_information/uebernachten/index.html?lang=en) provides information on hotels in different price classes and an online booking system.

Information for the speakers

Presentations will be given by invited speakers only. The time for presentations is indicated in the provisional programme. Please allow 5 minutes for clarifying questions and discussion.

Fees

Most of the costs of the colloquium will be covered by the organisers and sponsors. Participants have to pay a limited contribution for catering (book of abstracts, luncheons, coffee breaks).

This contribution amounts to € 120 for the plenary sessions including the conference dinner on 13th October (€ 70,- without conference dinner).

Cancellations can be submitted to the CHR Secretariat (info@chr-khr.org) before October, 1, 2010 for a 50% refund. After 1st October 2010 no refunds will be paid.

Travel and overnight accommodation must be arranged and paid for by the participants themselves.

Deadlines

Registration before **1st September 2010** (or earlier if the maximum number of participants is exceeded)

Organisers

The invitation to the event is issued by the International Commission for the Hydrology of the Rhine Basin (CHR) in cooperation with the Swiss Federal Office for the Environment, the German Federal Institute for Hydrology, the German IHP/HWRP Secretariat and the Dutch Centre for Water Management. For further information about CHR and about the workshop, please visit our website at www.chr-khr.org.

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For further information, please contact either the CHR/KHR secretariat or one of the members of the coordination committee.