

## Agenda Workshop "Climate Change Impacts on Groundwater

October 12th 2011, Warsaw

(back-to-back with EU Working Group C on Groundwater of the Common Implementation Strategy of the Water Framework Directive and the Groundwater Directive on October 13th)

Venue: Hotel Gromada Airport, 32, 17. Stycznia Street, 02-148 Warsaw, Poland

- 9:00 Start of meeting, welcome by *Johannes Grath*, co-chair of EU Working Group C on Groundwater
- 9:10 Introduction on the topics of today (*Hans Peter Broers*, Chair of the activity on Groundwater and Climate Change)

### **First session: demands of the member states for having CC well incorporated in the 2nd and 3rd River Basin Management Plans**

- 9.20 Groundwater aspects in the Guidance No.24 on River Basin Management in a Changing Climate (*Sophie Vermooten*)
- which issues which are not covered with respect to groundwater?
  - What issues should be taken into account in RBMP's
- 9:40 Demands identified in the EN water scarcity and droughts group (*Didier d'Hont*)
- 9:55 WaterCAP a CC cluster project in the North Sea region (*Rolf Johnsen*)
- 10:10 discussion on member states demands
- 10:30 Coffee Break

### **Second session: presenting knowledge that is currently available among scientists in Europe.**

#### *Europe wide CC aspects of groundwater:*

- 10:50 Overview FPVII orientations on Water and Climate in Europe (*Ph. Quevauviller*)
- 11:10 Patterns of CC over Europe based on FPVII Aquaterra/PRUDENCE (*Aidan Burton*)
- 11:30 Effects of CC on groundwater on a global and EU scale (*Rens van Beek*)
- 11:50 Droughts in Europe (*Henny van Lanen*, WATCH, DROUGHT-R&SPI, XEROCHORE)
- 12:10 Uncertainty in climate change impact modeling (*Torben Sonnenborg*)

#### *Case studies on CC and groundwater in EU member states*

- 12:30 climate change in the alpine groundwater environments (*Daniel Hunkeler*)

12:45 -14:00 lunch

#### *Case studies continued*

- 14:00 CC effects in the Mediterranean CIRCE project (*Michelle Vurro*)
- 14:15 Overview of relevant research in the UK on climate change impacts on groundwater (*John Bloomfield*)
- 14:30 Impacts of CC on Salt water intrusion in France (*Nathalie Dorfliger*)
- 14:45 Effects of CC mitigation measures on the patterns of salt and fresh water in a Delta environment (*Gu Oude Essink*)
- 15:00 CC effects on the Walloon groundwater systems (*Pascal Goderniaux*)
- 15:15 Availability of water resources and impacts of CC on drinking water supply in SE Europe(CC-waterS project; (*Zoltan Simonffy*))
- 15:30 Groundwater quantitative status in relation to CC (*Roland Barthel*)
- 15:45 Impact of CC on groundwater in Sweden (*Lena Maxe*)
- 16:00 CC impact in the North Sea and Baltic Sea regions (*Klaus Hinsby*)
- 16:15 Coffee break

### **Third session: wrap-up: discussion how to match knowledge and demands, and make plans for a follow-up.**

- 16:40 Discussion on matching knowledge and demands(*all*)
- 17:10 Summary of discussions and take home message (*Ronald Kozeł*)
- 17:20 Closure (*Balazs Horvath*)

### **Goals of the meeting**

The meeting will be used to share information and exchange views between member states and stakeholders and aims to:

- collect existing information
- establish the knowledge base on groundwater aspects of climate change as a basis for climate resilient river basin management plans
- identify the needs for future work in CC and groundwater, both from policy and scientific perspective.

The workshop addresses:

- Policy requirements and knowledge gaps of the member states
  - first step taking into consideration the guidance document 'River basin management in a changing climate'.
  - Best practices in member states
- Inputs from scientific results of national and EU wide research projects
  - E.g. WATCH, CIRCE, Aquaterra, R&SPI Droughts
  - national research projects which address the pressures and impacts of CC on groundwater