

Climate robust water supply, agriculture and nature Friday December 11, Holland Climate House (Hall C7)

Organized by **Alterra Wageningen/University and Research (WUR)**
KWR Watercycle Research Institute (KWR)
Both ENDS
Wetlands International
Dutch Federation of Agriculture and Horticulture (LTO)

Time	Topic	Session contents
10.00 - 12.00	Design of climate robust agriculture	What is the impact of climate change on agriculture and how do we design a climate robust agriculture? We present a general overview, show the effects of climate change on agriculture and offer insight into the design of climate robust systems. Finally we discuss the role of scientists, policy makers and farmers in designing a climate robust agriculture
12.00	Lunch	
12.15 – 14.15	Towards a climate proof freshwater supply	Climate change will have major implications for fresh water availability. We will discuss the increasing mismatch between demand and supply of fresh water in the delta of the Netherlands, where salinization increases, and look at adaptation strategies. Technological solutions for regional water supply will be presented and challenges and problems will be identified.
14.30 - 15.30	ADAPTS: Adaptive water management at a local scale	How do people in Ethiopia, Brazil, Peru, Vietnam, Botswana and Ghana deal with water shortage and implement successful water management initiatives to adapt to climate change? We will share practical initiatives and experiences in linking climate change models to the basin level within our ADAPTS programme.
15.45 - 17.45	Ecosystems and communities for a climate robust society	Ecosystem and community based adaptation constitute a critical element in creating a climate proof society. How can policy makers, scientists and field practitioners combine their efforts to study, prioritize, plan and implement adaptation action? We will offer an overview of the challenges and, in plenary discussion, we will explore the possibilities for co-operation.
17.45	Reception	

Contents of the day

Adaptation is already vital and will become even more important as the climate changes. Today we will give an overview of adaptation research in different sectors. In the morning we will focus on agriculture: how can we make agriculture more climate robust? In the afternoon presentations and discussions will focus on fresh water availability in developed and developing countries. Wetlands International will show how restoring ecosystems can help to protect against flooding and droughts and how important community-based adaptation is.

At the end of the day we will see how adaptation strategies for sectors come together at the local level and can be combined with mitigation measures. This can indicate how we can make cross sectoral adaptation and mitigation strategies.

Overview of presenters by topic

10.00-12.00	Chair: John Porter (University of Copenhagen) Jim Hansen (Columbia University) Andreas Gumbert (European Commission) Peter Prins (LTO-Noord)	Design climate robust agriculture
12.15-14.15	Chair: Gertjan Zwolsman (KWR Watercycle Research Institute) Fulco Ludwig (Wageningen University) Ad Jeuken (Deltares) Jan Hofman (KWR Watercycle Research Institute)	Towards a climate proof freshwater supply
14.30-15.30	Chair: prof. Jeroen Aerts Annelieke Douma (Both ENDS) Ralph Lasage (IVM) Rahel Belete (Action for Development, Ethiopia) Ken Kinney (Development Institute, Ghana)	ADAPTS: Adaptive water management at a local scale
15.45-17.45	Chair: Henk van Schaik (CPWC) Peter van Eijk (Wetlands International) John Matthews (WWF) Koen Kramer (Alterra, Wageningen UR) Trevor Sandwith (TNC) Mark Smith (IUCN)	Ecosystems and communities for a climate robust society