### Theme 1: Regional climate, sea level rise storm surges, river run-off and coastal flooding

**Session S 1.1: Sea level rise, surge and coastal processes (part 1)**

**Wednesday 29 September**

**Time 14.00 – 18.00**

<table>
<thead>
<tr>
<th>Chair: tbd</th>
</tr>
</thead>
</table>

#### Day

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| Wednesday 29 September | **Keynote**

*projection of global and regional sea level change for the 21st century*

Dr. Jonathan Gregory, Hadley Centre and University of Reading, United Kingdom |

<table>
<thead>
<tr>
<th>Time</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| 14.00 – 15.45 | A regional approach for future sea level change using IPCC SRES scenarios  
Dr. Aimée Slangen, IMAU, the Netherlands |
| 14.00 – 15.45 | Sea-level rise and subsidence: a dual threat for the Mississippi Delta  
Torbjörn Törnqvist, Tulane University, USA |
| 14.00 – 15.45 | Future coastal flooding risk in the Severn Estuary due to sea level rise  
Prof. dr. Roger Falconer, Cardiff University, United Kingdom |
| 14.00 – 15.45 | Assessing current and future storm surge risk around Tasmania, Australia  
Dr. Kathleen McInnes, CSIRO, Australia |
| 15.45 – 16.15 | Coffee/tea break |
| 16.15 – 17.15 | Ocean heat content rise pauses: how unusual is it and where does the heat go?  
Dr. Caroline Katsman, Royal Netherlands Meteorological Institute, the Netherlands |
| 17.15 – 18.00 | An ensemble study of extreme North Sea storm surges in a changing climate  
Dr. Andreas Sterl, Royal Netherlands Meteorological Institute, the Netherlands |
| 17.15 – 18.00 | Extreme storms and coastal evolution under accelerated sea-level rise (ESCALATE)  
Renske de Winter, Royal Netherlands Meteorological Institute / Utrecht University, the Netherlands |
| 17.15 – 18.00 | The Gangetic-Brahmaputra Delta in a changing climate  
Dr. Dipen Bhattacharya, University of California, USA |
| 17.15 – 18.00 | Impacts of rising mean sea level on German estuaries  
Ingrid Holzwarth, Federal Waterways Engineering and Research Institute, Germany |
| 17.15 – 18.00 | Sensitivity study of the storm surge of November 1st 2006 in the EMS estuary  
Dr. Elisabeth Rudolph, Federal Waterways Engineering and Research Institute, Germany |
| 17.15 – 18.00 | Natural calamities or a fail of society: storm surges through time and space  
Frederic Stragier, University of Antwerp, Belgium |
| 17.15 – 18.00 | A new inference of global sea level rise from tide gauge observations  
Dr. Paolo Stocchi, Delft University of Technology, the Netherlands |
| 17.15 – 18.00 | Local geomorphology as a determining control of coastal climate-change impacts  
Michael Kinsela, University of Sydney, Australia |
| 17.15 – 18.00 | Influences of changing climatic conditions on tidal marsh-watercourses  
Edgar Nehlsen, Hamburg University of Technology, Germany |
| 17.15 – 18.00 | The effect of the 18.6 year nodal cycle on regional sea level rise estimates  
Fedor Baart, Delft University of Technology, the Netherlands |
| 17.15 – 18.00 | The influence of vertical movements of the earth surface on longterm waterlevel variations  
Astrid Sudau, Federal Institute of Hydrology, Germany |
| 17.15 – 18.00 | Sea level change in the river delta areas of the Gulf of Thailand  
Marc Naeije, DEOS / Delft University of Technology, the Netherlands |
| 17.15 – 18.00 | Changes in land and sea levels along the Thames Estuary and River Thames, UK  
Richard Burren, Fugro NPA Ltd., United Kingdom |
| 17.15 – 18.00 | The sea level fingerprint of 21st century ice mass loss  
Dr. Riccardo Riva, Delft University of Technology, the Netherlands |
| 17.15 – 18.00 | Translating land based wind observations to large water areas  
Nander Wever, Royal Netherlands Meteorological Institute, the Netherlands |
| 17.15 – 18.00 | Wind climate and dynamics of Cay Beach in Seribu Islands, Jakarta Bay, Indonesia  
Dr. Raden Poerbandono, Institute of Technology, Indonesia |
# Programme Deltas in Depths

**Theme 1: Regional climate, sea level rise, storm surges, river run-off and coastal flooding**

**Session S 1.2: Sea level rise, surge and coastal processes (part 2)**

**Thursday 30 September**

**Time 13.00 – 14.45**

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thursday 30 September</strong></td>
<td></td>
</tr>
<tr>
<td>13.00 - 14.45 Orals</td>
<td>△ Climate change and tidal impacts on floods in the Mekong Delta&lt;br&gt;Viet Dung Nguyen, German Center for Geosciences Research</td>
</tr>
<tr>
<td></td>
<td>△ Impact of climate change in the coastal area of Bangladesh&lt;br&gt;Sarafat Khan, Bangladesh Water Development Board, Bangladesh</td>
</tr>
<tr>
<td></td>
<td>△ Climate-change versus anthropogenic effects on uncertainty: Tiber Delta erosion&lt;br&gt;Kellie Adlam, University of Sydney, Australia</td>
</tr>
<tr>
<td></td>
<td>△ Climate change impact on Danish coastal and marine infrastructures&lt;br&gt;Martin Johnsson, DHI, Denmark</td>
</tr>
<tr>
<td></td>
<td>△ Assessing instability of river bifurcations and flood risk division over deltas&lt;br&gt;Dr. Maarten Kleinhans, Utrecht University, the Netherlands</td>
</tr>
</tbody>
</table>

**14.45 – 15.15**

Coffee/tea break

---

**Theme 1: Regional climate, sea level rise, storm surges, river run-off and coastal flooding**

**Session S 1.3: Precipitation, discharge and flooding (part 1)**

**Thursday 30 September**

**Time 15.15 – 17.00**

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thursday 30 September</strong></td>
<td></td>
</tr>
<tr>
<td>15.15 - 16.25 Orals</td>
<td>△ Keynote&lt;br&gt;Adapting to future climate change in the Thames estuary&lt;br&gt;Tim Reeder, Environment Agency, United Kingdom</td>
</tr>
<tr>
<td></td>
<td>△ Climate extreme and flood occurrence in coastal environment of Nigeria&lt;br&gt;Sa'adatu Abatemi-Usman, University College London, United Kingdom</td>
</tr>
<tr>
<td></td>
<td>△ River mouth drowning under rapid sea level rise: Rhine Delta geological lessons&lt;br&gt;Dr. Kim Cohen, Utrecht University, the Netherlands</td>
</tr>
</tbody>
</table>

- ▷ Outlook to new climate change scenarios for The Netherlands<br>Prof. Dr. Bart van den Hurk, Royal Netherlands Meterological Institute, the Netherlands
- ▷ Geomorphological mapping of river deltas – practical and prognostic applications<br>Dr. Mikhail Aristov, Institute for Applied Geography, Ukraine
- ▷ Fine sediment feeding assessment at Parana Delta in times of climate change<br>Dr. Maria Gabriella Gaeta, University of Bologna, Italy
- ▷ The effect of a warming North-Sea on coastal precipitation<br>Dr. Jisk Attema, Royal Netherlands Meteorological Institute, the Netherlands
- ▷ Future changes in extreme multiple-day precipitation sums for the Rhine Basin<br>Dr. Sarah Kew, Royal Netherlands Meteorological Institute, the Netherlands
- ▷ Vulnerable deltas, a natural laboratory for future climate scenarios<br>Dr. Vicente Gracia, Universitat Politècnica de Catalunya, Spain
- ▷ Review of climate change impacts on Europe’s delta regions<br>Mike Harley, AEA, United Kingdom
- ▷ Detecting flooding frequency in the past millennium from delta lake sediments<br>Holger Cremer, TNO Built Environment and Geosciences, the Netherlands
- ▷ Bias removal and resampling of RCM data for climate change studies of the Rhine<br>Dr. Jules Beersma, Royal Netherlands Meteorological Institute, the Netherlands
- ▷ Climate change impact assessment on soil water availability in Blue Nile Basin<br>Yakob Mohammed Umer, Arba Minch University, Ethiopia
- ▷ Run-off variation of the Papagayo Delta river under climate change<br>Dr. Guillermo Cardoso-Landa, Instituto Tecnológico de Chilpancingo, Mexico
- ▷ Spatial and temporal rainfall variation of Bangladesh<br>Dr. Mohammed Sarker, University of Sheffield, United Kingdom
- ▷ Estimation of greenhouse gas emissions from Danube delta deposits<br>Jenica Hanganu, Danube Delta National Institute for Research and Development, Romania
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Title /Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| Friday 1 October    | 09.00 – 10.15 | **Keynote**  
Rheinblick2050: joint climate and discharge projections for the Rhine, overview  
Dr. Klaus Görgen, CRP – Gabriel Lippmann, Luxembourg |
| Orals               |          | Change of extreme peak flows in the Rhine Basin according to 8 RCM simulations  
Otto de Keizer, Deltares, the Netherlands |
|                     |          | Future time series: times series transformation vs model data  
Alexander Bakker, Royal Netherlands Meteorological Institute, the Netherlands |
| 10.15 – 10.45       | Coffee/tea break |                                                                                                    |
| Orals               | 10.45 – 12.00 | Response of river mouths of permafrost zone of Russia to climate changes  
Dr. Elena Dolgopolova, Institute of Water Problems, Russian Academy of Sciences, Russian Federation |
|                     |          | Evaluation of downsampling a climate dataset in Western Java, Indonesia  
Miga Julian, Institut Teknologi Bandung, Indonesia |
|                     |          | Is coastal rainfall in the Netherlands better simulated at a finer grid scale?  
Herbert ter Maat, Alterra, Wageningen UR, the Netherlands |

**Theme 1: Regional climate, sea level rise, storm surges, river run-off and coastal flooding**

**Session S 1.5: Adaptation, risk, vulnerability**

**Thursday 30 September**

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Title/ Speaker /Affiliation / Country</th>
</tr>
</thead>
</table>
| Thursday 30 September | 13.00 – 14.45 | **Keynote**  
Deltas and Sea level rise impacts with and without enhanced subsidence  
Prof. Dr. Robert Nicholls, University of Southampton, United Kingdom |
| Orals               |          | Deltas are sinking, but how to meet the consequences?  
Prof. dr. Jan Vermaat, Institute for Environmental Studies, the Netherlands |
|                     |          | Assessment of socioeconomic vulnerability to SLR using GIS: Damietta, Egypt  
Prof. Mohamed Abdrabo, Institute of Graduate Studies and Research - University of Alexandria, Egypt |
|                     |          | Coastal flooding risk in Emilia-Romagna: the intervention at Cesenatico  
Dr. Valentino Ciriello, University of Bologna, Italy |
|                     |          | Satellite monitoring of water defense systems  
Freek van Leijen, Hansje Brinker, the Netherlands |
| 14.45 – 15.15       | Coffee/tea break |                                                                                                    |
| Orals               | 15.15 – 16.35 | Coastal defence cost estimates; study of the Netherlands, Vietnam & New Orleans  
Marten Hilten, Royal Haskoning, the Netherlands |
|                     |          | Tidal river management in Bangladesh coast in the face of climate change  
Prof. Dr. Mohammed Rhaman, Chittagong University, Bangladesh |
|                     |          | Safecoast: coastal risk management in five North Sea countries  
Niels Roode, Rijkswaterstaat Waterdienst, the Netherlands |
|                     |          | The sand engine  
Koen Oome, Province of Zuid-Holland, the Netherlands |
| 16.35 – 17.00       | Poster pitches | Environmental outlook towards 2030 for the Flanders region of Belgium  
Dr. Patric Willems, University of Leuven, Belgium |
|                     |          | The spatial modelling approach for the impact of sea level rise on delta coast  
Dewayany Sutrisno, National coordinating agency for survey and mapping, Indonesia |
|                     |          | Consequences of climate change for inland shipping  
Alice Krekt, Arcadis, the Netherlands |
|                     |          | Flood risk policy assessment in Shanghai with a comparison to Rotterdam  
Qian Ke, Delft University of Technology, the Netherlands |
|                     |          | Danube delta under human control  
Dr. Liviu Giosan, Woods Hole Oceanographic Institution, USA |
|                     |          | The efficiency of artificial sandbanks in the Elbe estuary for flood protection  
Dr. Jens Kappenberg, GKSS, Germany |
|                     |          | Framework for the analysis of sea level rise impacts on the Nile Delta in Egypt  
Dr. Mohamed Hassan, Ministry of Water Resources and Irrigation, Egypt |
|                     |          | Climate change adaptation measures in the coastal zone of Bangladesh  
Dr. Hero Heering, Euroconsult Mott MacDonald, the Netherlands |
|                     |          | Jakarta flood: vulnerability assessment and its adaptation  
Dr. Armi Susandi, Bandung Institute of Technology, Indonesia |
|                     |          | The Ayeyarwady Delta, the Cyclone Nargis and the non-state actors |
Prof. Dr. Khin-Ni-Ni Thein, Group-T International University College Leuven, Thailand

- Integrated coastal management to respond to CC and SLR – study in Vietnam
  Dr. Thanh Ca Vu, Research Institute for the Management of Seas and Islands, Vietnam

- Coastal subsidence of Jakarta (Indonesia) and its impacts
  Prof. Hasanuddin Abidin, Institute of Technology Bandung, Indonesia

- Flood risk management strategies in deltas
  Dr. Bas Jonkman, Royal Haskoning / Delft University of Technology, the Netherlands
### Theme 2: Fresh water availability under sea level rise and climate change

#### Session S 2.1: General picture

**Wednesday 29 September**

**Time 14.00-18.00**

**Chair: tbd**

<table>
<thead>
<tr>
<th>Date</th>
<th>Title/ Speaker / Affiliation/ Country</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wednesday 29 September</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 14.00 – 15.45 | **Keynote**

  * General introduction, examples USA*

  **Prof. dr. Gerald Galloway, Glenn L. Martin Institute, USA**

<table>
<thead>
<tr>
<th>Orals</th>
<th></th>
</tr>
</thead>
</table>
|       | **Effects of climate change on the physical dynamics of South African estuaries**

  **Dr. Jill Slinger, Delft University of Technology, the Netherlands**

|       | **Climate change effects on vegetation characteristics and groundwater recharge**

  **Dr. Ruud Bartholomeus, KWR Watercycle Research Institute, the Netherlands**

|       | **Will Rotterdam have to fight for water?**

  **Hans Waals, Waterschap Hollandse Delta, the Netherlands**

|       | **A new adaptation tool for Dutch farmers to cope with drought and excess water**

  **Dr. Lodewijk Stuyt, Wageningen UR – ESG, the Netherlands**

| **14.45 – 15.15** | **Coffee/tea break** |
| **15.15 – 17.35** | Orals |
|                  | **Salt water intrusion into shallow aquifers of the Niger Delta in Nigeria**

  **Christiana Emuh, University of Ibadan, Nigeria**

|                  | **Aquifers as a storage and reaction vessel: a cure-all for climate change?**

  **Prof. Dr. Peter Stuyfzand, KWR Watercycle Research Institute, the Netherlands**

|                  | **Discontinuous recharge of fresh water lenses along the Adriatic coast, Italy**

  **Pauline Mollem, University of Bologna, Italy**

|                  | **The challenge to adapt to dryer and more saline conditions in the ‘Groene Hart’**

  **Robert Speets, Royal Haskoning, the Netherlands**

| **17.35 – 18.00** | **Poster pitches** |
|                  | **Perspective of saline agriculture for deltas in times of climate change**

  **Prof. Dr. Jetje Rozema, Institute of Ecological Science, Vrije Universiteit, the Netherlands**

|                  | **Stochastic risk analysis of soil and groundwater salinity in river delta areas**

  **Prof. Dr. Sjoerd van der Zee, Wageningen University, the Netherlands**

|                  | **The Netherlands hydrological modelling instrument for fresh-saline groundwater**

  **Jarno Verkaik, Deltares, the Netherlands**

|                  | **Salinisation and freshening of phreatic groundwater in Zeeland, a modelling study**

  **Ester van Baaren, Deltares, the Netherlands**

### Theme 2: Fresh water availability under sea level rise and climate Change

#### Session S 2.2: Fresh water supply and salinisation in developing countries

**Thursday 30 September**

**Time 13.00-17.00**

**Chair: tbd**

<table>
<thead>
<tr>
<th>Date</th>
<th>Title/ Speaker / Affiliation/ Country</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thursday 30 September</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 13.00 – 14.45 | **Keynote**

  * Title follows*

  **Dr. Ainun Nishat, International Union for Conservation of Nature, Bangladesh**

<table>
<thead>
<tr>
<th>Orals</th>
<th></th>
</tr>
</thead>
</table>
|       | **Promotion of alternative water options in the coastal zone of Bangladesh**

  **Zahidul Mamun, Concern Universal, Bangladesh**

|       | **Salinity and livelihood in a Bangladesh village**

  **Dr. Ashiqur Rahman, Chittagong University, Bangladesh**

|       | **Degradation of Indus delta and its causes: a case study of Indus river delta**

  **Hussain Noor Chaudio, Shah Abdul Latif University, Khairpur, Pakistan**

|       | **Climate change signals in eastern Himalayas and implications for GBM Delta**

  **Ali Akanda, Tufts University, USA**

| **14.45 – 15.15** | **Coffee/tea break** |
| **15.15 – 17.00** | Orals |
|                  | **Keynote**

  * Fresh water supply and drainage issues in Khulna*

  **S.M. Mahbubur Rahman (tbc), Institute of Water Modelling, Bangladesh**

|                  | **Integrated policies are a must to face future water scarcity in Egypt**

  **Wouter Wolters, Alterra, the Netherlands**

|                  | **Mapping defunct channels in the Nile delta and their impact on the groundwater**

  **Dr. Mohammed El Bastawesy NARSS, Egypt**

|                  | **Towards a more self-sufficient water system in Haaglanden**

  **Dr. Marcel Paalman, KWR Watercycle Research Institute, the Netherlands**
## Theme 2: Fresh water availability under sea level rise and climate change
### Session S 2.3: Salinisation in South West Netherlands
**Friday 1 October**
**Time 9.00-12.00**

<table>
<thead>
<tr>
<th>Date</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| Friday 1 October 9.00 - 10.15 | **Keynote**  
*Climate change – how do regional water agencies deal with it*  
Prof. dr. Sybe Schaap (tbc), the Netherlands |
|            | **Orals**  
Policy options for sustainable fresh water supply in saline delta areas  
Ies de Vries, Deltares, the Netherlands |
|            | Use and availability of fresh water in the South-West delta of the Netherlands  
Steven Visser, Province of Zuid-Holland, the Netherlands |
| 10.15 – 10.45 | **Coffee/tea break**                                                                                      |
| 10.45 – 12.00 | **Orals**  
Effects climate change on coastal groundwater systems, focus on the Rhine delta  
Dr. Gualbert Oude Essink, Deltares, the Netherlands |
|            | Social learning for feasible scenarios of fresh water supply in the Dutch delta  
Stephanie Janssen, Deltares, the Netherlands |
|            | Climate effects on shallow rainwater lenses on top of saline groundwater  
Dr. Perry de Louw, Deltares, the Netherlands |
|            | Effects of climate change on thin fresh water lenses in low-lying coastal areas  
Sara Eeman, Wageningen University, the Netherlands |
# Programme Deltas in Depths

**Theme 3: Climate change and estuarine ecosystem**

## Session S 3.1 Impact of climate change on estuaries round the world (part I)

**Wednesday 29 September**

**Time 14.00-18.00**

**Chair:** Prof.dr. Peter Herman, Netherlands Institute of Ecology, NIOO, the Netherlands

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday 29 September</td>
<td>14.00 – 15.45</td>
<td>Keynote</td>
<td>Anthropogenic and climatically-driven environmental change in the Pamlico Sound System, North Carolina, USA: What’s manageable and what’s not?</td>
<td>Prof. Dr. Hans Paerl, University of North Carolina at Chapel Hill, USA</td>
<td>USA</td>
</tr>
<tr>
<td>Orals</td>
<td></td>
<td>The tidal Elbe on its way into the next century</td>
<td>Heinz Glindemann, Hamburg Port Authority, Germany</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Impact of climate change on the Cochin estuary</td>
<td>Dr. Shadananan Nair, Nansen Environmental Research Centre India, India</td>
<td></td>
<td>India</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vegetation shift in German estuaries due to climate change?</td>
<td>Eva-Maria Bauer, Federal Institute of Hydrology, Germany</td>
<td></td>
<td>Germany</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sea level rise and morphodynamic evolution of intertidal area in tidal basins</td>
<td>Mick van der Wegen, UNESCO-IHE, the Netherlands</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15.45 – 16.15</td>
<td>Coffee/tea break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orals</td>
<td>16.15 – 17.35</td>
<td>Responses of the Meghna estuary of Bangladesh to climate change</td>
<td>Dr. Maminul Sarker, CEGIS, Bangladesh</td>
<td></td>
<td>Bangladesh</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Two countries, one river, zero water: the Colorado river delta and estuary</td>
<td>Prof. dr. Karl Flessa, University of Arizona, USA</td>
<td></td>
<td>USA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>From salty foe to silty friend</td>
<td>Henriette Stoop, CSO adviesbureau, the Netherlands</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17.35-18.00</td>
<td>Poster pitches</td>
<td>Adaption to climate change and competing land use in the Weser estuary region</td>
<td>Prof. dr. Bastian Schuchardt, Bioconsult Schuchardt &amp; Scholle GbR, Germany</td>
<td>Germany</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adaptation and community adaptation: study of Chilika lagoon in India</td>
<td>Bedamatta Satyasiba, Institute for Social and Economic Change, India</td>
<td></td>
<td>India</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coastal and estuarine ecosystem of Bangladesh: management and conservation issues</td>
<td>Dr. Mustafa Kamal Abu Hena, University of Chittagong, Bangladesh</td>
<td></td>
<td>Bangladesh</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Patterns in macrozoobenthic assemblages of the changing Rhine-Meuse estuary</td>
<td>Dr. Sander Wijnhoven, Centre for Estuarine and Marine Ecology, the Netherlands</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coastal polders in Bangladesh turned from green revolution to brown</td>
<td>Dr. Mizanur Rahman, Centre for Environment and Climate Change Studies Society, Bangladesh</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Theme 3: Climate change and estuarine ecosystem

## Session S 3.2 Impact of climate change on estuaries round the world (part II)

**Thursday 30 September**

**Time 13.00-17.00**

**Chair:** Dr. Hans Paerl, University of North Carolina at Chapel Hill, USA

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday 30 September</td>
<td>13.00 – 14.45</td>
<td>Keynote Anthropogenic Effects on Carbon Cycling in Large River Deltas Prof. Thomas S. Bianchi, Texas A&amp;M University</td>
</tr>
<tr>
<td>Orals</td>
<td></td>
<td>Climate change modified sediment flux from the Brahmaputra to GBM delta</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Consequences of global change on the ecosystem services of the Schelde estuary</td>
</tr>
<tr>
<td></td>
<td>14.45 – 15.15</td>
<td>Coffee/tea break</td>
</tr>
<tr>
<td>Orals</td>
<td>15.15 – 16.15</td>
<td>Climate change vulnerability assessment and adaptation in mangrove systems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Transfer times in Rhine delta (1900-2008): Lobith discharge &amp; Waddensea salinity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Estimating impacts of climate change on the oxygen budget of the Elbe estuary</td>
</tr>
<tr>
<td></td>
<td>16.15 – 17.00</td>
<td>Delta Sinu system in the Colombian Caribbean within the climate change framework</td>
</tr>
<tr>
<td>Poster pitches</td>
<td>Details</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>➢ Coastal flooding in Jakarta: critical analysis on management of mangrove areas</td>
<td>Laely Nurhidayah, Indonesian Institute of Sciences, Indonesia</td>
<td></td>
</tr>
<tr>
<td>➢ Sanbanze national park - a project for the final tideland area of Tokyo Bay</td>
<td>Tomoya Hashiuchi, DN Urbland b.v., the Netherlands</td>
<td></td>
</tr>
<tr>
<td>➢ Opening the Haringvliet dam: ecological, economic and social causes and effects</td>
<td>Elvira Broeks, Roosevelt Academy - Utrecht University, the Netherlands</td>
<td></td>
</tr>
<tr>
<td>➢ The kierbesluit: value analysis of the controlled tide project in the Haringvliet</td>
<td>Jelte Mense, Roosevelt Academy, the Netherlands</td>
<td></td>
</tr>
<tr>
<td>➢ Rhine estuary ‘closeable but open’ – potential effects on the environment</td>
<td>Dr. Ton de Nijs, RIVM, the Netherlands</td>
<td></td>
</tr>
</tbody>
</table>
### Theme 4: Climate change and climate proofing urban areas

**Session S 4.1: Adaptation strategies in urban areas**  
**Wednesday 29 September**  
**Time 14.00-17.00**

**Chairs:**  
Prof. Simin Davoudi, Newcastle University, United Kingdom  
Prof. dr. Tejo Spit, Utrecht University, the Netherlands

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday 29 September</td>
<td></td>
</tr>
</tbody>
</table>
14.00 – 15.45 Orals |  
**Keynote**  
*Extending the rational choice model of decision making in climate adaptation*  
Prof. Simin Davoudi, Newcastle University, United Kingdom  

- Coping with climate change in Delta Cities by adopting the AFD concept  
  Bianca Stalenberg, Delft University of Technology, the Netherlands  

- Adapting where we can  
  Jeroen Rijke, UNESCO-IHE, the Netherlands  

- Climate change adaptation in New York City: Risk management process  
  Dr. David Major, Columbia University, USA  

- Vulnerability and adaptation of Alexandria, Casablanca and Tunis  
  Anthony Bigio, The World Bank, USA  

15.45 – 16.15 Coffee/ tea break  

16.15 – 17.00 Orals |  
- Risks of climate change impacts in major Bangladeshi cities  
  Dr. Khan Rahaman, Khulna University, Bangladesh  

- Governing Climate Change related Risks: Responses of Dutch urban planners  
  Dr. Hens Runhaar, Utrecht University, the Netherlands  

- Climate resilience for Ho Chi Minh City  
  Debra Lam, Arup, Vietnam  

17.00 – 18.00 Poster pitches |  
- The urbanized Mekong delta in Vietnam: ‘from living with floods to adaptation’  
  Duong Quang Pham, Delft University of Technology, Vietnam/the Netherlands  

- Modelling impact of urbanized surface scheme versus boundary layer transport  
  GertJan Steeneveld, Wageningen University, the Netherlands  

- Studying the urban heat island in the Netherlands using observations by amateurs  
  Dirk Wolters, Royal Netherlands Meteorological Institute, the Netherlands  

- The Urban Climate Machine  
  Paulette Dicker, DHV, the Netherlands  

- Tidal City Concept Hamburg  
  Prof. Antje Stokman, Studio Urbane Landschaften, Germany  

- Climate change, urban dynamics and (lack of?) governance: a Latin American case  
  Dr. Veronica Zagare, Delft University of Technology, Argentina/the Netherlands  

- Climate proof strategies for urban coastal defence – a comparative study  
  Natalja Marinova, Alterra, Wageningen UR, Bulgaria/the Netherlands  

- Small scale urban dredging: an essential tool for climate change mitigation  
  Daan Rijks, DHV, the Netherlands  

- The application of high resolution weather forecasts in climate proofing  
  Dr. Ben Wichers Schreur, Royal Netherlands Meteorological Institute, the Netherlands  

- Assessment of the Rotterdam urban heat island, using mobile measuring platforms  
  Dr. Bert Heusinkveld, Wageningen University, the Netherlands  

- Innovations in urban water management to reduce the vulnerabilities of cities  
  Dr. Rutger de Graaf, DeltaSync, the Netherlands  

- Mapping local vulnerability on a national level; case study in The Netherlands  
  Dr. Karin Stone, Deltares, the Netherlands

### Theme 4: Climate change and climate proofing urban areas

**Session S 4.2: Flood Risks and Water management in the urban environment**  
**Thursday 30 September**  
**Time 13.00-17.00**

**Chair:**  
Prof. dr. Tejo Spit, Utrecht University, the Netherlands

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday 30 September</td>
<td></td>
</tr>
</tbody>
</table>
13.00 – 14.45 Orals |  
**Keynote**  
*Title to be decided*  
Prof. dr. John Handley, Manchester University, School of Environment and Development  

- Creating a water robust environment  
  Ellen Tromp, Deltares, the Netherlands

14.45 – 16.00 Coffee/ tea break  

16.00 – 17.00 Orals |  
- Flood-delta interaction in the urban environment  
  Harald Savenije, Deltares, the Netherlands  

- The changing urban planning in the Netherlands  
  Paul de Weger, DHV, the Netherlands  

- Urban water balance in the Netherlands: a case study in Rotterdam  
  Ron de Bakker, Deltares, the Netherlands  

- Vulnerability and resilience of small tropical deltas  
  Paul de Weger, Deltares, the Netherlands  

- The application of high resolution weather forecasts in climate proofing  
  Dr. Ben Wichers Schreur, Royal Netherlands Meteorological Institute, the Netherlands

- Mapping local vulnerability on a national level; case study in The Netherlands  
  Dr. Karin Stone, Deltares, the Netherlands
### Theme 4: Climate change and climate proofing urban areas

#### Session S 4.3: Climate change assessment and adaptation methods

**Friday 1 October**

**Time 9.00-12.00**

**Chair:**

Prof.dr. Jim Hall, Newcastle University, Tyndall Centre for Climate change Research, United Kingdom

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker/ Affiliation / Country</th>
</tr>
</thead>
</table>
| Friday, 1 October 9.00 – 10.15 | **Keynote**
Cities as systems: interpreting the drivers of long term change  
Prof.d.r. Jim Hall, Newcastle University / Tyndall Centre for Climate change Research, United Kingdom |
| 10.15 – 10.45 | **Coffee/ tea break** |
| 10.45 – 12.00 | **Orals**
Applicability of elastomeric revetments for coastal protection - AC  
Frederik Treuel, Technical University of Hamburg, Germany |
| | Measuring rainfall in urban areas using cellular telephones  
Aart Overeem, Wageningen University, the Netherlands |
| | Designing climate proof urban districts  
Jaap Kortman, IVAM UvA BV research and consultancy on sustainability, the Netherlands |
| | Integrated assessment of possibilities for climate change adaption  
Peter Bosch, TNO, the Netherlands |
<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| Friday 1 October  | **Keynote**  
Adapting the urban environment to climate change. Robust findings, key uncertainties and major challenges  
Prof. dr. Chris Zevenbergen, Unesco-IHE, Institute for Water Education, the Netherlands |
| 9.00 – 10.15      | Adaption tipping points and pathways for Rotterdam on different spatial scales  
Dr. Jaap Kwadijk, Deltares, the Netherlands |
|                   | Civil protection and climate change vulnerability: a Rotterdam case  
Maya van den Berg, University of Twente, the Netherlands                                                                      |
| 10.15 – 10.45     | **Coffee/tea break**                                                                                                            |
| 10.45 – 12.00     | Urban water system of Rotterdam; climate change impact and adaptation  
Eric van Nieuwkerk / dr. Marleen Maarleveld, Arcadis, the Netherlands                                                        |
|                   | Learning together to manage urban flood risks in Dordrecht  
Judith Bax, Municipality of Dordrecht, the Netherlands                                                                         |
|                   | Urban heat and heat stress in Rotterdam  
Dr. Lisette Klok, TNO Built Environment and Geosciences, the Netherlands                                                       |
|                   | An assessment of current urban heat island intensity in the Netherlands  
Dr. Bert van Hove, Wageningen University, the Netherlands                                                                       |
## Theme 5: Competing claims and land use in deltas under climate change

### Session S 5.1: Impacts and adaptation strategies

**Wednesday 29 September**  
**Time 14.00-18.00**

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| Wednesday, 29 September 14.00-15.45 | **Keynote**  
Adaptation to climate change impacts in deltas: emerging topics  
Saleemul Huq, International Institute for Environment and Development, United Kingdom |
| Orals        | Impact of land use change and climate change on mangroves of the world’s deltas  
Chandra Giri, USGS, USA |
|              | Climate change effects in the Ebro delta: Strategies for adaptation  
Iñaki Gili, Catalan Office for Climate Change, Spain |
|              | Living on embankments, dreaming of colonies: land and land loss in the Gangetic Delta  
Arne Harms, Institute of Social Anthropology, Germany |
| 15.45 – 16.15 | Coffee/tea break |
| 16.15 – 17.15 | Climate change impacts and adaptation of agriculture in the Netherlands  
Dr. Pytrik Reidsma, Wageningen University, the Netherlands |
| Orals        | Climate change and nature, integration of spatial policies with a land use model  
Michiel van Eupen, Alterra Wageningen UR, the Netherlands |
|              | Exploring the potential for biofuel crops in the Netherlands  
Dr. Tom Kuhlman, LEI, the Netherlands |
| 17.15-18.00  | Poster pitches  
- Climate change and sustainable land management in the Niger delta  
Dr. Abayomi Oyekale, University of Ibadan, Nigeria |
|              | - C and N dynamics following drainage and afforestation in the Parana lower delta  
Ing. Darío Ceballos, Instituto Nacional de Tecnología Agropecuaria, Argentina |
|              | - How predictable are water and vegetation biodiversity?  
Prof. dr. Jan-Philip Witte, KWR Watercycle Research Institute, the Netherlands |
|              | - Dilemmas in the Dutch River area: Do long term claims prevail?  
Wouter Rozier, Rijkswaterstaat Center for Water Management, the Netherlands |
|              | - Socially responsible water management in the Vecht Valley  
Ing. Herbert Bos, Province of Overijssel, the Netherlands |
|              | - A vision dealing with peak discharge and rising sea levels in the SW Delta  
Jandirk Hoekstra, H+N+S Landschapsarchitecten, the Netherlands |

### Session S 5.2: Generating and evaluating potential solutions

**Thursday 30 September**  
**Time 13.00-17.00**

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| Thursday, 30 September 13.00-14.45 | **Key note**  
Competing land use claims and trade offs from climate adaptation in Europe  
Prof. dr. Peter Verburg, Institute for Environmental Studies, the Netherlands |
| Orals        | Towards a typology of urbanizing deltas  
Prof. dr. Han Meyer, Delft University of Technology, the Netherlands |
|              | Multi-dynamics and time aspects in spatial planning and design  
Wim van der Knaap, Wageningen University, the Netherlands |
|              | Spatial planning and future flood risks: the Lincolnshire coastal study  
Geoff Darch, Atkins, United Kingdom |
|              | Multifunctional use of water systems for better accessibility of Delta cities  
Dr. Rutger de Graaf, DeltaSync, the Netherlands |
| 14.45 – 15.15 | Coffee/tea break |
| 15.15 – 16.35 | Building adaptive capacity for wetlands when competition for land is high  
Dr. Claire Vos, Alterra Wageningen UR, the Netherlands |
| Orals        | Multifunctional land use: innovative solutions for adaptation strategies  
Frank van Lamoen, Province of Noord-Brabant, the Netherlands |
|              | How new development can help tackle multiple pressures from climate change  
Robert Barker, Baca Architects, United Kingdom |
|              | Responsible investments in times of climate change  
Karin Thomas, Thomas Consulting/ Tilburg University, the Netherlands |
Borth—the marzipan capital of the world?
Elizabeth Alice Johnson, Royal Haskoning, United Kingdom

Developing adaptation strategies for agriculture in the Northern Netherlands
Jan Verhagen, Plant Research International, the Netherlands

The Delta city perspective of the Pearl river delta
Liang Xiong, Delft University of Technology, the Netherlands

Contribution of multifunctional farmlands to a climate proof ecological network
Dr. Hein Korevaar, Plant Research International, the Netherlands

Methodologies for setting up adaptation strategies in peat areas
Remko Rosenboom, DHV, the Netherlands

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday 1 October</td>
<td></td>
</tr>
<tr>
<td>9.00 – 10.15</td>
<td>Key note Implementation and design To be decided</td>
</tr>
</tbody>
</table>
| Orals        | 'Sketching and matching climate adaptation'. Where science meets spatial design
Oswald Lagendijk, Deltares, the Netherlands                                                                 |
|              | Dealing with flood threat through appropriate building design
Ann Karina Lassen, TU Delft, the Netherlands                                                                 |
| 10.15 – 10.45 | Coffee/tea break                                                                                   |
| Orals        | Waterfront potentials of ‘Rhine estuary closeable but open’ concept
Dr. Roland Goetgeluk, ABF Research, the Netherlands                                                                 |
|              | Shoreline management plan for the Wash: agriculture and habitats in the balance
Jaap Flikweert, Royal Haskoning, United Kingdom                                                                 |
|              | Adaptation for nature in Dutch fen meadows: reflections from stakeholders
Ben Schaap, Wageningen University and Researchcentre, the Netherlands                                                                 |
|              | First we change the rivers, then they change us
Prof. Jorg Sieweke, Virginia School of Architecture, USA                                                                 |
# Theme 6: Governance and economics of climate adaptation

## Session S 6.1: The governance of climate adaptation: international comparison

**Wednesday 29 September**

**Time**: 14.00-18.00

**Chairs:**
- Prof. dr. Katrien Termeer, Wageningen UR, the Netherlands
- Dr. Elizabeth Wilson, Oxford Brookes University, United Kingdom

### Day | Title / Speaker / Affiliation / Country
--- | ---
**Wednesday 29 September**

<table>
<thead>
<tr>
<th>Time</th>
<th>Type</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| 14.00 – 15.45 | Orals | Keynote  
Prof. Bernd Siebenhühner, University of Oldenburg, Germany |
| 15.45 – 16.15 | Coffee/tea break | |
| 16.15 – 17.15 | Orals | DRR governance: a crucial interplay between adaptation and development in Bangladesh  
Valentin Przluski, CIRED, France |
| 17.15 – 18.00 | Poster pitches | Climate greening Rotterdam, London and Toronto  
Heleen Mees, Utrecht University, the Netherlands |
| | | Parallel co-evolution in Delta Water management in California and The Netherlands  
Arjen Zegwaard, Wageningen University, the Netherlands |
| | | Vulnerability to transboundary river floods in The Netherlands and Mozambique  
Dr. Marloes Bakker, Netherlands Environmental Assessment Agency, the Netherlands |
| | | Adaptive water legislation: What can the Dutch learn from the United Kingdom  
Dr. Pieter Jong, Delft University / CAW, the Netherlands |
| | | FACTS! Forms for adapting to climate change through territorial strategies -Bulgaria, Spain, Greece, Portugal, Belgium  
Judith Jobse, Van Hall Larenstein University of Applied Sciences, the Netherlands |
| | | Institutional answers to uncertainty: flood risk management in the low lands  
Ingrid Coninx, Alterra, Wageningen University, Belgium/the Netherlands |
| | | A new frame for multi-actor analysis and governance design in delta management  
Dr. Marcel Marchand, Deltares, the Netherlands |
| | | Dordrecht: most critical, most adaptive? Involvement of private actors  
Dr. Pieter Jong, Delft Technical University, the Netherlands |
| | | The need for new nexus: engineers and flood management  
Dr. Bertien Broekhans, Delft Technical University, the Netherlands |
| | | “Climategate”: a controversy between “deniers” and “alarmists”?  
Dr. Art Dewulf, Wageningen University, the Netherlands |
| | | Towards a comparative assessment for a climate proof delta  
Aalt Leusink, LOASYS, the Netherlands |

## Session S 6.2: Regional strategies of climate adaptation: concepts and Dutch examples

**Thursday 30 September**

**Time**: 13.00-17.00

**Chairs:**
- Prof. dr. Katrien Termeer, Wageningen UR, the Netherlands
- Dr. Elizabeth Wilson, Oxford Brookes University, United Kingdom

### Day | Title / Speaker / Affiliation / Country
--- | ---
**Thursday 30 September**

<table>
<thead>
<tr>
<th>Time</th>
<th>Type</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| 13.00 – 14.45 | Keynote | Governance challenges for climate adaption  
Prof. dr. S. Kuks, School of Management and Governance, University of Twente |
## Programme Deltas in Depths

**Orals**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.45 – 15.15</td>
<td><strong>Coffee/tea break</strong></td>
</tr>
<tr>
<td>15.15 – 16.15</td>
<td>△ Climate adaptation navigator: design and analysis of adaptation strategies</td>
</tr>
<tr>
<td></td>
<td>Saskia Hommes, Deltares, the Netherlands</td>
</tr>
<tr>
<td></td>
<td>△ The policy context of adaptation decision making in The Netherlands Delta region</td>
</tr>
<tr>
<td></td>
<td>Dr. Saskia Werners, Wageningen UR, the Netherlands</td>
</tr>
<tr>
<td></td>
<td>△ Resilient Urban governance systems</td>
</tr>
<tr>
<td></td>
<td>Ingmar van Meerkerk, Erasmus University Rotterdam, the Netherlands</td>
</tr>
<tr>
<td>16.15 – 17.00</td>
<td>△ Policy perspectives on barriers and opportunities to climate adaptation</td>
</tr>
<tr>
<td></td>
<td>Robbert Biesbroek, Wageningen University and research centre, the Netherlands</td>
</tr>
<tr>
<td></td>
<td>△ Institutional analysis of local adaptive capacity in Dutch storm water management</td>
</tr>
<tr>
<td></td>
<td>Tineke Ruigh-van der Ploeg, Delft University of Technology, the Netherlands</td>
</tr>
<tr>
<td></td>
<td>△ Taboos for climate adaptation in the Netherlands</td>
</tr>
<tr>
<td></td>
<td>Job van den Berg, DHV BV, the Netherlands</td>
</tr>
<tr>
<td></td>
<td>△ Towards a supported and climate proof plan for the IJssel delta</td>
</tr>
<tr>
<td></td>
<td>Arjen Otte, Province of Overijssel, the Netherlands</td>
</tr>
<tr>
<td></td>
<td>△ The role of pilot projects in innovation processes in Deltas</td>
</tr>
<tr>
<td></td>
<td>Heleen Vreugdenhil, Delft University of Technology, the Netherlands</td>
</tr>
<tr>
<td></td>
<td>△ Can local governments in Asia play a role in climate change adaptation?</td>
</tr>
<tr>
<td></td>
<td>Paul Schuttenbelt, Urban Solutions, Vietnam</td>
</tr>
<tr>
<td></td>
<td>△ Climate proofing an intensively used polder: seasonal storage in the Westflank</td>
</tr>
<tr>
<td></td>
<td>Dr. Inge de Kort, RVOB, the Netherlands</td>
</tr>
<tr>
<td></td>
<td>△ Towards a risk based spatial planning policy for flood prone areas</td>
</tr>
<tr>
<td></td>
<td>Dick van den Bergh, Deltares, the Netherlands</td>
</tr>
<tr>
<td></td>
<td>△ Adaptive water governance: certainty or flexibility? That’s the question</td>
</tr>
<tr>
<td></td>
<td>Jaap Evers, University of Twente, the Netherlands</td>
</tr>
</tbody>
</table>

**Theme 6: Governance and economics of climate adaptation**

**Session S 6.3: The economics of climate adaptation**

**Friday 1 October**

**Time 9.00-12.00**

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday</td>
<td>△ Climate induced risks in coastal areas: governing public and private adaptation</td>
</tr>
<tr>
<td>1 October</td>
<td>Dr. Tatian Filatova, Deltares, the Netherlands</td>
</tr>
<tr>
<td>9.00 – 10.15</td>
<td>△ Climate adaptation, urban management and economic effects in delta cities</td>
</tr>
<tr>
<td></td>
<td>Dr. Peter Pol, Erasmus University, the Netherlands</td>
</tr>
<tr>
<td>Orals</td>
<td>△ Infrastructure and ecosystems – part of the same toolkit for climate adaptation?</td>
</tr>
<tr>
<td></td>
<td>Dr. Pieter van Eijk, Wetlands International, the Netherlands</td>
</tr>
<tr>
<td>10.15 – 10.45</td>
<td><strong>Coffee/tea break</strong></td>
</tr>
<tr>
<td>10.45 – 12.00</td>
<td>△ Climate change effects on inland waterways transport: a literature survey</td>
</tr>
<tr>
<td>Orals</td>
<td>Dr. Olaf Jonkeren, VU University, the Netherlands</td>
</tr>
<tr>
<td></td>
<td>△ Climate change as a catalyst? The government change of the Shatt Al-Arab</td>
</tr>
<tr>
<td></td>
<td>Laurent Lambert, Oxford University, Denmark</td>
</tr>
<tr>
<td></td>
<td>△ Revitalization of Taiwan coastal subsided area under climate change threat</td>
</tr>
<tr>
<td></td>
<td>Dr. Sinite Yu, TIIWE, Taiwan</td>
</tr>
</tbody>
</table>
### Theme 7: Decision support instruments for climate adaptation policy

#### Session S 7.1: DSS – improving their communicative power

**Wednesday 29 September**  
**Time 14.00-15.45**

<table>
<thead>
<tr>
<th>Chair: tbd</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| Wednesday 29 September 14.00 – 15.45 | Keynote  
*Visualising climate change adaptation futures: learning from Australian experiences*  
**Dr. Christopher Pettit, Department of Primary Industries Victoria, Australia**  
Orals  
Adaptation to tangible and intangible flood risk: a detailed DSS  
**Ingrid Coninx, Alterra, Wageningen University, Belgium/the Netherlands**  
Using water system and societal interaction to prepare for an uncertain future  
**Marjolein Haasnoot, Deltares, the Netherlands**  
High-performance computations and 3-d visualizations  
**Anne Leskens, Nelen en Schuurmans, the Netherlands**  
Testing of an IWRM DSS for assessing climate adaptation options in Bangladesh  
**Dr. Asif Zaman, Institute of Water Modelling, Bangladesh**  
Evaluating landscape impacts of climate mitigation using land use simulation  
**Alfred Wagterdond, VU University Amsterdam, the Netherlands** |

#### Theme 7: Decision support instruments for climate adaptation Policy

#### Session S 7.2: DSS – enhancing decision making

**Wednesday 29 September**  
**Time 16.15 -18.00**

<table>
<thead>
<tr>
<th>Chair: tbd</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| Wednesday 29 September 16.15 -17.35 | Keynote  
*Adaptation to tangible and intangible flood risk: a detailed DSS*  
**Ingrid Coninx, Alterra, Wageningen University, Belgium/the Netherlands**  
Orals  
An information system for the sustainable development of the Mekong Delta  
**Dr. Claudia Kuenzer, German Aerospace Centre, DLR, Germany**  
Sea level rise and risk assessment  
**Dr. John Hunter, Antarctic Climate and Ecosystems Cooperative Research Centre, Australia**  
Developing a climate change adapted PSS for the Dutch Randstad region  
**Nils van der Vaart, Utrecht University, the Netherlands**  
17.35 -18.00  
Decision support system for operational water management in a regional water system  
**Nicolaas Douben, Waterschap Brabantse Delta, the Netherlands**  
Flood control 2015 in Jakarta  
**Dr. Marco Hartman, HKV consultants, the Netherlands**  
Climate change in the picture on local level  
**Pascal Zoetbrood, Tauw, the Netherlands**  
The BWN maptable: a tool to support design and decision making  
**Sonja Ouwerkerk, Witteveen+Bos, the Netherlands**  
Assessing Cheaspeake Bay Water quality policies in a changing climate  
**Rebecca Gasper, University of Maryland, USA**  
Improving access to data on climate change and its impacts  
**Dr. Janette Bessembinder, Royal Netherlands Meteorological Institute, the Netherlands**  
Improving access to data on hydrological impacts of climate change  
**Joost Delsman, Deltares, the Netherlands** |

#### Theme 7: Decision support instruments for climate adaptation Policy

#### Session S 7.3: Methods – CBA/MCA

**Thursday 30 September**  
**Time 13.00-14.45**

<table>
<thead>
<tr>
<th>Chair: tbd</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| Thursday 30 September 13.00 -14.45 | Keynote  
*Quantified analysis of current and future flood risk at a basin scale in China*  
**Prof. dr. Jim Hall, Newcastle University, United Kingdom**  
Orals  
Investing in flood protection measures under climate change uncertainty  
**Karianne de Bruin, Wageningen University, the Netherlands**  
Immaterial damage valuation in the context of flood risk  
**Dr. Marija Bockarjova, VU University, the Netherlands**  
Climate change and wetlands: socio-cultural values for adaptation measures  
**Assoc. Prof. Poh-Ling Tan, Griffith University, Australia**  
Multi criteria analysis as a tool for climate adaptation policy assessment  
**Stelios Grafakos, Erasmus University, the Netherlands** |
### Theme 7: Decision support instruments for climate adaptation policy

**Session S 7.4: Methods – scenarios**

**Thursday 30 September**  
**Time 15.15-17.00**

**Chair:** tbd

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| **Thursday 30 September**  
**15.15 -16.30**  
Orals | △ Decision making in a changing climate: experiences in the coastal zone  
Kelly Levin, World Resources Institute, USA  |
| | △ Use and misuse of scenarios in the climate change debate in the Netherlands  
Dr. Bert Enserink, Delft University of Technology, the Netherlands  |
| | △ Exploring pathways for sustainable water management in a changing environment  
Marjolijn Haasnoot, Deltares, the Netherlands  |
| | △ Scenarios as an informal instrument of climate adaptation governance  
Prof. dr. Jörg Knieling, HafenCity University, Hamburg, Germany  |
| **16.30 -17.00**  
Poster pitches | ▶ Modelling farm vulnerability to flooding to appraise adaptation policies  
Pauline Bremond, CEMAGREF UMR G-eau, France  |
| | ▶ Ho Che Minh City, opportunities for adaptation via spatial planning strategies  
Dr. Harry Storch, Brandenburg University of Technology, Cottbus, Germany  |
| | ▶ WIKI-List of limiting factors to land use functioning in a changing climate  
Dr. Hessel Winsemius, Deltares, the Netherlands  |
| | ▶ Creating secure urbanities, the city as a weave of infrastructures  
Carlos Betancourth, Independent consultant, Barcelona, Spain  |

### Theme 7: Decision support instruments for climate adaptation policy

**Session S 7.5: Novel approaches**

**Friday 1 October**  
**Time 9.00-12.00**

**Chair:** tbd

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| **Friday, 1 October**  
**9.00 – 10.15**  
Orals | △ Keynote  
**Developing climate adaptation strategies for Flanders**  
Prof Dr. Renaat de Sutter, University of Gent, Belgium  |
| | △ Roadmap to a climate proof Netherlands framework for adaptation strategies  
Dr. Leendert van Bree, Netherlands Environmental Assessment Agency, the Netherlands  |
| | △ Climate aspects and strategical environmental assessment in spatial planning  
Mr. Simone de Groot, Geodan Next, the Netherlands  |
| **10.15 – 10.45**  
**Coffee/tea break** | |
| **10.45 – 12.00**  
Orals | △ Adaptive policymaking approach for climate change  
Prof. dr. Warren Walker, Delft University of Technology, the Netherlands  |
| | △ Exploratory modeling in support of robust policies for flood risk management  
Dr. Tineke Ruijgh-van der Ploeg, Delft University of Technology, the Netherlands  |
| | △ Impacts, adaptation and comparability: supporting decision processes in deltas  
Prajal Pradhan, Potsdam Institute for Climate Impact Research, Germany  |
| | △ Frame analysis as a tool for climate change adaptation  
Dr. Joop de Boer, Institute for Environmental Studies, VU University Amsterdam, the Netherlands  |
## Theme 8: Climate change and health in delta areas

### Session S 8.1 Climate change and health in delta areas

**Wednesday 29 September**  
**Time 14.00-17.30**

**Chair:** Prof. dr. Pim Martens, Maastricht University, ICIS, the Netherlands

<table>
<thead>
<tr>
<th>Day</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wednesday, 29 September</strong></td>
<td><strong>Orals</strong></td>
</tr>
</tbody>
</table>
| 14.00 -15.45         | **Keynote**  
|                     | Effects of climate change on human health and wellbeing in deltas  
|                     | Dr. Andrew Githeko, Climate and Human Health Research Unit, Kenya  
|                     | Medical Research Institute, Kenya |
|                     | **Impacts of climate change on water hygiene and pathogens in German waterways**  
|                     | Dr. Nicole Brennholt, Federal Institute of Hydrology, Germany |
|                     | **Health impacts of climate change in Cascais, Portugal**  
|                     | Dr. Elsa Casimiro, Infotox, Portugal |
|                     | **Effects of apparent temperature on summer mortality in Lisbon and Oporto**  
|                     | Dr. Sofia de Almeida, FSC, Portugal |
| **15.45 – 16.15**    | **Coffee/tea break** |
| 16.15 – 17.30        | **A framework of (non-) climatic drivers for infectious disease risk in Dutch deltas**  
|                     | Su-Mia Akin, Maastricht University, the Netherlands |
|                     | **Towards a national strategy to integrate public health**  
|                     | Dr. Emil Augustiono, Deputy Minister Coordinator for People’s Welfare, Indonesia |
|                     | **Expert assessment of health-relevant adaptation options**  
|                     | Dr. Eva Kunseler, Netherlands Environmental Assessment Agency, the Netherlands |
|                     | **Cholera transmission cycles in Bengal Delta: implications for changing climate**  
|                     | Ali Akanda, Tufts University, USA |
| **17.30 -18.00**     | **Poster pitches**  
|                     | **Climate variability and malaria transmission in Niger Delta of Nigeria**  
|                     | Dr. Ayansina Ayanlade, Obafemi Awolowo University, Nigeria |
|                     | **Modelling of air quality in a changing climate**  
|                     | Dr. Astrid Manders, TNO Built Environment and Geosciences, the Netherlands |
## Theme 9: Managing risks of extreme climate events

### Session S 9.1 Quantifying climate risks

**Wednesday 29 September**

**Time 13.00-17.00**

**Chairs:**
- Prof.dr. Jeroen Aerts, VU University IVM, the Netherlands
- Prof.dr. Reimund Schwarze, DIW Berlin, Germany

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Title / Speaker / Affiliation / Country</th>
</tr>
</thead>
</table>
| Wednesday 29 September  | 14.00 – 15.45 | **Keynote**
  - Quantifying climate risk
  - Dr. Robert Muir Wood, RMS, United Kingdom |
|                         |               | **Orals**
  - Monitoring European changes in extreme weather and climate events
  - Dr. Albert Klein Tank, Royal Netherlands Meteorological Institute, the Netherlands |
  - Public perception of flood risk in the Sacramento San Joaquin Delta, California
  - Jessica Ludy, University of California, Berkley, USA |
  - Assessing future extreme weather risk: current approaches and estimates
  - Laurens Bouwer, VU-IVM, the Netherlands |
  - Precipitation and resulting losses for insurers in relation to climate change
  - H.F. Treur, Netherlands Insurers Association, the Netherlands |
|                         | 15.45 – 16.15 | **Coffee/tea break** |
|                         | 16.15 – 17.35 | **Orals**
  - Changes in flood preparedness due to a focusing event
  - Dr. Heidi Kreibich, German Research Centre for Geosciences, Germany |
  - Monetary valuation of insurance against climate change risk
  - Dr. Wouter Botzen, VU-IVM, the Netherlands |
  - A management strategy for the Ebro delta in the context of flooding
  - Dr. Jordi Galofre, Spanish Ministry of Environment, Spain |
  - Working apart together: filling the water safety gap
  - Hans Waals, Waterboard Hollandse Delta, the Netherlands |
| Wednesday 29 September  | 17.35 -18.00  | **Poster pitches**
  - Climate change challenges review leading to sustainable solutions in Nile Delta
  - Marmar Mabrouk, UNESCO-IHE, Egypt |
  - Implication of climate change in the destination path of GBM basin
  - Mehdi Azam, Institute of Forest and Environmental Policy, University of Freiburg, Germany |
  - Rural farming households’ adaptation to climate change in the Niger Delta region
  - Dr. C. Ebeniro, University of Port Harcourt, Nigeria |
  - Resilience and control as rationales for flood risk management
  - Rianne Bijlsma, University of Twente, the Netherlands |
  - Flood vulnerability of port infrastructure outside primary flood defences
  - Joost Lansen, Royal Haskoning, the Netherlands |
  - Risks of high river temperatures for energy production under future climate
  - Michelle van Vliet, Wageningen University, the Netherlands |
  - Farm households vulnerability to climate change in the Niger Delta of Nigeria
  - Dr. Abayomi Oyekale, University of Ibadan, Nigeria |

### Session S 9.2: Managing climate extremes in practice

**Thursday 30 September**

**Time 14.00-16.30**

**Chairs:**
- Prof.dr. Jeroen Aerts, VU University IVM, the Netherlands
- Dr. Swenja Surminski, Association of British Insurers, United Kingdom

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Presenter / affiliation / Country</th>
<th>Title abstract/presentation</th>
</tr>
</thead>
</table>
| Thursday, 30 September  | 13.00 – 14.45 | **Keynote**
  - Title follows
  - Dr. Thomas Loster, Munich Re, Germany (t.b.c.) |
|                         |               | **Orals**
  - Water management and extreme events in Santa Catarina coastal river basins
  - Frederico Rudorff, Secretariat of Economic and Sustainable Development, Brazil |
  - Economic motivation of households to undertake private precautionary measures
  - Reimund Schwarze, UFZ Potsdam, Germany |
  - Amphibious building: a new strategy to reduce vulnerability to extreme flooding

---

**Programme Deltas in Depths**

**Deltas in Times of Climate Change Rotterdam 2010**

**Connecting world science and deltas**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.45 – 15.15</td>
<td>Coffee/tea break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.15 – 17.00</td>
<td>Orals</td>
<td>Prof. Dr. Elizabeth English</td>
<td>Flood risk developments and adaptation strategies in the Rhine Meuse Delta</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Philip Bubeck, VU-IVM, the Netherlands</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wouter Jonkhoff, TNO, the Netherlands</td>
<td>Regional economic effects of flooding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aris Marfai, University of Yogyakarta, Indonesia</td>
<td>Flood risk management in Jakarta</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Jan-Moritz Müller, LSBG Hamburg, Germany</td>
<td>Hamburg’s coastal flood defence strategy in an international context</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yutzu Lin, Architecture and Building Research Institute, Taiwan</td>
<td>Adaptation of spatial planning system for urban disaster prevention in Taiwan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oswald Lagendijk, Deltares, the Netherlands</td>
<td>Best practices for safe and sustainable development of urbanized areas</td>
</tr>
</tbody>
</table>