



# Managing the World's Deltas: Unique Systems, Unique Challenges

World Water Week  
29th of August 2012  
09:00-12:30

Venue: T6, Älvsjömässan,  
Älvsjö, Stockholm, Sweden

**Deltas, where the river meets the sea, are dynamic and productive systems where people live and have built civilizations for millennia. Throughout the world they host dense populations and are important centers of food production, livelihoods and industry. These confluences of the sweet and the salty waters are of great ecological significance, featuring wetlands of high and unique biodiversity. Wise management of deltas is crucial for the integrity of ecosystems, economic well being and poverty alleviation.**

The world's deltas are under unprecedented pressure due to human induced change and natural forces. Rapid population growth, land use change, climate change, sea level rise and land subsidence do not only result in significant and irreversible damage to infrastructure, ecosystems and livelihoods but also retard development gains. These complex problems call for concerted action – an integrated framework for decision making incorporating spatial planning, disaster management and risk reduction strategies. The resilience of deltas can only be enhanced through adaptive governance, sound economic instruments and innovative financing.

**Enabling Delta Life** is a collaborative initiative for water management and governance in deltas between the Global Water Partnership and the Delta Alliance, supported by the Netherlands Ministry of Development Cooperation. The Delta Alliance is an international knowledge-driven network organization with the mission of improving the resilience of the world's deltas.

# AGENDA

<b>09:00-09:05</b>	Welcome introduction	Dr. Ania Grobicki, Executive Secretary of the Global Water Partnership
<b>09:05-09:20</b>	Elevating Delta Management in National Planning	Mr. Jos van Alphen, Senior advisor Staff Delta Commissioner, the Netherlands
<b>09:20-10:10</b>	<p>Perspectives on Delta issues</p> <ul style="list-style-type: none"> <li>Report-back from the Delta workshop held at the GWP Consulting Partner meeting</li> <li>The Pearl River Delta</li> <li>The Ganga-Brahmaputra-Meghna Delta</li> <li>The Mekong delta</li> </ul>	<p>Mr. Kees Slingerland, Director of Delta Alliance International and Director of the Environmental Sciences Group (ESG) of Wageningen University and Research Center (Wageningen UR), The Netherlands</p> <p>Dr. Wang Yuhai, China Institute of Water Resources and Hydropower Research</p> <p>Dr. Khondaker Azharul Haq, Vice President, GWP Bangladesh</p> <p>H.E. Watt Botkosal, Chair, GWP Cambodia</p>
<b>10:10-10:50</b>	Panel and audience discussion: common challenges, effective interventions	
	<p>Facilitator: Dr. Ania Grobicki, Executive Secretary, GWP</p>	<p>Panel Members:</p> <ul style="list-style-type: none"> <li>H.E. Watt Botkosal, Chair, GWP Cambodia (the Mekong Delta, Cambodia)</li> <li>Dr. Khondaker Azharul Haq, Vice President, GWP Bangladesh (the Ganga-Brahmaputra-Meghna Delta, Bangladesh)</li> <li>Mr. Armand Kocou Houanye, Executive Secretary, GWP Benin (the Ouémé delta, Benin)</li> <li>Mr. Kees Slingerland, Director of the Delta Alliance International/ Environmental Sciences Group (ESG) of Wageningen University and Research Center (Wageningen UR)</li> <li>Ms. Panpilai Sukhonthasindhu, Alternate Steering Committee member, GWP Thailand (the Chao Phraya Delta, Thailand)</li> <li>Dr. Dao Trong Tu, Chair, GWP Vietnam (the Mekong delta, Vietnam)</li> <li>Dr. Wang Yuhai, China Institute of Water Resources and Hydropower Research (the Pearl River Delta, China)</li> </ul>
<b>10:50-11:10</b>	Tea/coffee break	
<b>11:10-11:40</b>	Adaptive delta management and financing interventions	
	<p>Economics of water allocation in delta management</p> <p>Green Water Defense - A perspective on water security at deltas</p>	<p>Prof. Petra Hellegers, Professor of Economics on Water and Climate Change, Wageningen University &amp; Research Center</p> <p>Dr. Xiaokai Li, Senior Water Resources Management Specialist, the World Bank</p>
<b>11:40-12:20</b>	Panel and audience discussion: adaptive governance and financing for delta solutions	
	<p>Facilitator: Mr. Cees van de Guchte, Director of the Section on Climate Adaptation and Risk Management, Deltares and Coordinator for the Dutch Delta Alliance Wing</p>	<p>Panel Members:</p> <ul style="list-style-type: none"> <li>Mr. Jos van Alphen, Senior advisor Staff Delta Commissioner, The Netherlands</li> <li>Dr. Mochammad Amron, Chair, GWP Indonesia (National delta strategies, Indonesia)</li> <li>Eng. Mohamed Elrawady, Governing Board member, GWP Egypt (the Nile Delta, Egypt)</li> <li>Prof. Petra Hellegers, Professor of Economics on Water and Climate Change, Wageningen University &amp; Research Center, The Netherlands</li> <li>Dr. Xiaokai Li, Senior Water Resources Management Specialist, the World Bank</li> </ul>
<b>12:20-12:30</b>	Summary and closing remarks	<ul style="list-style-type: none"> <li>Prof. Eelco van Beek, Technical Committee Member, GWP, the Netherlands</li> </ul>

# SPEAKERS



**Dr. Mohammad Amron** is a Senior Advisor of NARBO and Indonesian of International Commission on Irrigation and Drainage, Chairman of Indonesian Association of Hydraulic Engineer and of Certification Board of Indonesian Commission on Large Dam. He has a PhD in Land Water Plan and Management. He has 35 years of experience in Indonesia Public Work Ministry, with posts including Director General of Water Resources, Director of Spatial Planning, Director of Water Resources Construction Guidance. He also served as Executive Director of GWP Indonesia and Chairperson of Network of Asian River Basin Organization.



**Mr. Armand Kocou Houanye** is the Executive Secretary of GWP Benin. He has a certificate in general agriculture, a BSc of Agronomist Engineer and a Master in Sciences of environment and climate risk management. Prior he has been working with management of wetlands in Benin, agriculture, forestry, management of natural resources linked to water resources and wetlands through a participative approach that takes gender, environment and poverty into account. He has published and contributed to more than five books and articles in scientific journals.



**H.E. Watt Botkosal** is the Deputy Secretary General of the Cambodian National Mekong Committee, Chairman of GWP Cambodia and Coordinator for the National Basin Development Programme. He has coordinated and led programs for the Mekong River Commission, Asian Development Bank and the World Bank and also coordinated a Delta Study and a IWRM Project in Mekong. He got a Master of Business Administration on Human Resources Management, and a MSc in Forestry Science.



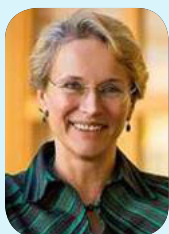
**Dr. Xiaokai Li** is a Senior Water Resources Management Specialist, World Bank. He has a PhD in water resources and environmental management and a BSc in hydraulic engineering. He has worked over the last 30 years in different countries in Asia and Africa regions, including deltas such as Mekong, Nile, Jakarta, Yangtze and Yellow River Deltas, on water resources planning, development and management. He is now working with the World Bank's East Asia and Pacific region as a senior water resources management specialist and team leader.



**Eng. Mohamed Elrawy** is a Water Resources Specialist at CEDARE and a governing board member of the GWP Egypt. He has experience in hydraulics, watershed management, coastal zone management, groundwater resources management, and numerical modeling. His international experience includes working on developing a saltwater intrusion mitigation model for the East Baton Rouge Parish in Louisiana, USA and extensive research on watershed modeling and management on various Watersheds in the USA.



**Mr. Kees Slingerland** is the Director General for the Environmental Sciences Group at Wageningen University and Research Center (WUR) and the Director for the Delta Alliance. He has worked with the Dutch Ministry of Agriculture, Nature and Food Quality (LNV), as well as project manager for Nehem Intl. He has studied animal husbandry in the tropics, with a minor in economy at Wageningen University.



**Dr. Ania Grobicki** is the Executive Secretary of the Global Water Partnership and her experience and knowledge of water is extensive, and includes work on the water needs of industry, agriculture and energy, as well as research and practice related to water supply and reuse; water quality; water and health; effluent treatment technologies; and integrated catchment management. Dr. Grobicki has degrees in Chemical Engineering from the University of Cape Town and in Economics from the University of South Africa, together with a Ph.D. in Biotechnology from Imperial College, London.



**Ms. Panpilai Sukhonthasindhu** is an Alternate SC member of Thai Water Partnership. She has a BSc in history, and a Master in Agricultural and Rural Development. She also received the certificate in Resources Management from Cornell University, Ithaca, U.S.A. She has been working in development for more than 30 years and is currently working on coastal area management as part of Thai Water Partnership's project to support to the provincial planning.



**Dr. Khondaker Azharul Haq** is the Vice President, GWP Bangladesh. He has a Ph.D. degree in Engineering, a Master in Agricultural Engineering and a BSc in Agricultural Engineering. He has over 40 years of experience worldwide in water resource development and management, management of irrigation system, agricultural and rural development, impact assessment and management of large public sector utilities dealing with water supply and sanitation.



**Dr. Dao Trong Tu** is a member of the GWP South East Asia Steering Committee and a Standing Member of GWP Vietnam, the Water Resources Association of Vietnam and Vietnam Irrigation and Drainage Association. He has a Master in Eng. in Hydraulic Works and a Ph.D. in Water and Land Management. Dr. Tu is Director of the Centre for Sustainable Water Resources Development and Adaptation to Climate Change and a lecturer at the Cologne University, Germany and Vietnam Water Resources

Resources



**Dr. Petra Hellegers** is a Professor of Economics of Water and Climate Change at Wageningen UR and Senior Water Economist at the LEI. She carried out research for the International Water Management Institute (IWMI) from 2005-2007 in close collaboration with the University of Melbourne. She has extensive experience in the economic analysis of water and water allocation issues, nationally and internationally.



**Mr. Jos van Alphen** is a member of the Delta Commissioner's staff and is the contact for knowledge-related affairs and responsible for the input and quality assurance of subject-specific knowledge and expertise. Additional is Mr. van Alphen involved with the Delta set of instruments and scenarios and also in coordinating research programmes. Prior, he worked as a knowledge manager at the secretariat of the Delta Committee and held various positions at the Directorate-General of Public Works & Water Management.



## SPEAKERS *continued*

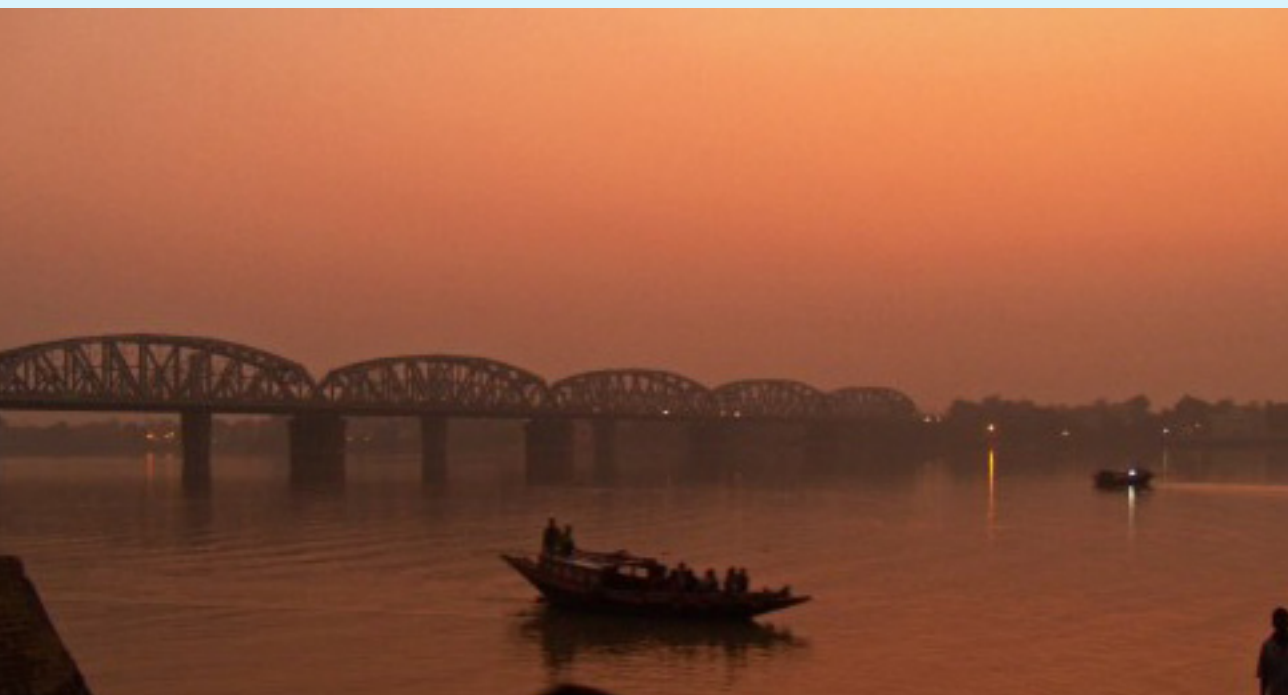


**Prof. Eelco van Beek** is a Technical Committee Member, GWP. He currently teaches IWRM at the University of Twente, the Netherlands. Prior he worked as a professor in Modelling in Integrated Water Resources Management at the Delft University of Technology. Prof. van Beek leads the Delft Hydraulics research project on Integrated River Basin Management and water allocation under drought conditions. He has 35 years' experience of the interface between IWRM research and its application in field, and has been involved in implementing IWRM in a number of countries.



**Dr. Wang Yuhai** is a Senior Engineer at the China Institute of Water Resources and Hydropower Research. His research areas include fundamental studies of flow & sediment transport mechanics in estuarine and coastal waters, morphodynamic modeling, storm surge, salt water intrusion, coastal protection, port & waterway engineering, etc. Dr. Wang has been carrying out and completed several research projects, published over thirty papers and written over twenty technical reports.

**Dr. Cees van de Guchte** is the Director of the Section on Climate Adaptation and Risk Management of Deltares and co-coordinator of the international Delta Alliance. He has been a Senior Programme Officer at UNEP, contributing to global policy development on IWRM. He has more than 15 years of experience in the field of national policy development in water management and has participated in numerous committees, among others river basin committees, the EU Water Framework Directive and the UN/ECE Monitoring and Assessment of Transboundary Waters programme.



The Delta Alliance is an international knowledge-driven network organization with the mission of improving the resilience of the world's deltas.

[www.delta-alliance.org](http://www.delta-alliance.org)

The Global Water Partnership mission is to support the sustainable development and management of water resources at all levels. The network has over 2,600 Partner organisations around the world.

[www.gwp.org](http://www.gwp.org)