

# ADVANCED COURSES / TUTORIALS

## on Adaptation Metrics and Techniques for Agriculture and Water,

Within the framework of the International Conference on "Adaptation Metrics for Agriculture, Water and Resilient Cities"

24-25 october, 2018

Day 1

<b>Session 1:</b> Opening Objectives of the training session + tour de table	09:00-09:30	Driss Ouazar	
		Carol Chouchani Cherfane	
		Hicham El Habti	
		Tour de table	
<b>Session 2:</b> Introduction to the climate change science	09:30-11:00	Fatima Driouech	Introduction to climate variability and change
		Rafiq Hamdi	Climate modeling and adaptation
<b>Coffee break</b>			
<b>Session 3:</b> Observed and projected impacts of climate change on water resources (with focus on Africa and MENA region)	11:30-12:15	Asmerom M. Gilau	Key findings related to the observed and projected impacts of climate change on water resources.
		Ghani Chehbouni	Overview on impact models, data needed and methodologies used for impact assessment
		Samir Bensaid	Vulnerability assessment and flood risk management
		Asmae Bouchkara	A case study from Morocco: Oum Er-Rbii watershed
<b>Session 4:</b> Observed and projected impacts of climate change on agriculture (with focus on Africa and MENA region)	12:15-13:00	Rachid Mrabet	Observed and projected impacts on agriculture at global and regional scale with focus on Africa and MENA region
		Riad Balaghi	Impact models and methodologies for impact assessment and example of case study in Morocco
<b>Lunch break</b>			
<b>Session 5:</b> Adaptation concept and objectives within the global and national contexts	14:30-16:00	Fatima Driouech	Concept of Adaptation and National and international Context
		Karl Schultz	Overview methodologies, standards, processes and mechanisms
<b>Session 6:</b> Adaptation in water sector	16:30-18:00	Robert Kranefeld	Overview on the methodologies, data and information used for adaptation in water resources and M&E metrics and indices
		Carol Couchani	Adaptation in Human Settlements Using Integrated Water Resources Management (IWRM) Tools
		Nabil El Mocayed	Water transfer as an example of adaptation tool
		Ahmed Erraji	Le Système LDAS Maroc : Modélisation à l'aide des données satellite du bilan hydrique et adaptation aux Changements climatiques
		Said Rhouzlane	Adaptation to Climate Change: Rainwater and Mist Collection
<b>Session 7:</b> Discussion and concluding remarks for the first day	18:00-18:30	Trainers+participants	

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Day 2

<b>Session 8:</b> Participants' presentations (Adaptation case studies from country/region)	08:30-11:00	Supervisors/trainers: <b>Driss Ouazar, Reinhard Mechler, Karl Schultz, Marjorie Ménard, Catherine Simonet, Shuhaib Lwasa, Fatima Driouech</b>
<b>Coffee break</b>		
<b>Session 9:</b> Adaptation of agriculture	11:30-13:00	<b>Reinhard Mechler</b>   Overview Adaptation techniques for agriculture and monitoring tools
		<b>Catherine Simonet</b>   Adaptation and Value Chain approach
		<b>Marjorie Ménard</b>   Case studies from Africa and possibilities of use in other regions
		<b>Rachid Mrabet</b>   Adaptation through climate smart agriculture
		<b>Ihsan El Louadi</b>   Modélisation Hydro-Agro-Economique pour l'Évaluation de l'Efficacité des Politiques d'Adaptation.
<b>Lunch break</b>		
<b>Session 10:</b> Hands-on case studies	14:30-16:00	<b>WGI: Karl Schultz &amp; Marjorie Ménard</b>
		<b>WGII: Robert Kranefeld &amp; Asmerom M. Gilau</b>
		<b>WGIII: Catherine Simonet &amp; Riad Balaghi</b>
		<b>WGIV: Shuhaib Lwasa &amp; Said Rhouzlane</b>
<b>Coffee break</b>		
<b>Session 11:</b> Climate finance mechanisms and procedures	16:30-17:45	<b>Siham Ayad</b>
<b>Session 12:</b> Discussion and conclusion	17:45-18:15	<b>Driss Ouazar, Trainers and participants</b>