

ADVANCED COURSES/TUTORIALS

on Adaptation Metrics and Techniques for Agriculture and Water, October 24-25, 2018

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

UM6P - Benguerir, Morocco



Objectives

This training session is designed for engineers, scientists, practitioners, and decision makers (from Africa, MENA region and elsewhere) interested in improving their skills in the field of climate change, adaptation metrics and techniques with a focus on the agriculture and water sectors. Through a set of lectures, exercises and discussions, the participants will have the opportunity to learn about the climate change science basis, the observed and projected impacts and vulnerabilities of water and agriculture, and the new techniques and metrics used for monitoring and evaluating adaptation. Given the importance of financial aspect in the implementation of adaptation actions and the link with metrics, the participants will also learn about climate finance mechanisms and procedures. Furthermore, the participants will have an opportunity for discussions, experience sharing and networking with others.

Provisional Program (2 days)		
Day 1	09:00 - 11:00	1) Opening + Objectives of the training session + tour de table 2) Introduction to the climate change science basis This session will introduce and give an overview of the following aspects: the climate system, its components and the related main processes and exchanges; the climate variability and changes and the main drivers; climate models; the greenhouse effect and the main greenhouse gases (GHG); and the emission scenarios (RCPs scenarios). It will then present the key findings related to the global and regional observed and projected climate changes.
	11:00 - 11:30	Break
	11:30 - 13:00	3) Observed and projected impacts of climate change on water resources (with focus on Africa and MENA region) This session will give an overview on impact models, data needed and methodologies used for impact assessment and present the key findings related to the observed and projected impacts of climate change on water resources. A case study on vulnerability assessment for water resources will be presented and analyzed.
	13:00 - 14:30	4) Observed and projected impacts of climate change on agriculture (with focus on Africa and MENA region) This session will give an overview on impact models, data and methodologies for impact assessment; present the key findings related to the observed and projected impacts of climate change on agriculture. It will also present a case study on vulnerability assessment for agriculture.
	14:30 - 16:00	5) Adaptation concept and objectives within the global and national contexts This session will start by defining some terminology and meanings related to the topic, introduce the principle and objectives of adaptation in the global and national contexts (Paris agreement, NAPs, SDGs, ...), and give an overview of the methodologies, processes and mechanisms related to adaptation.
	16:00 - 16:30	Break
	16:30 - 18:00	6) Adaptation in water sector: Overview, needs, techniques and metrics and monitoring tools This session will give an overview on the methodologies, data and information used for adaptation in water resources. It will also present and discuss a set of metrics and monitoring tools for adaptation of this sector. 7) Discussion and concluding remarks for the first day

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Day 2	08:30 - 11:00	8) Participants' presentations (on adaptation cases from their countries) Participants (volunteers) will make a short presentation on a case of adaptation actions in their country/region or future strategies/actions taken from the National adaptation plans (NAPs) or the country NDC (Nationally Determined Contribution). The presentations will be followed by a discussion on methodologies, tools and metrics used/could be used. Preliminary preparation of these case studies will be supervised by the instructors.
	11:00 - 11:30	Break
	11:30 - 13:00	9) Adaptation of agriculture: Overview, needs, techniques and metrics and monitoring tools This session will give an overview on the methodologies, data and information used for adaptation of agriculture. It will also present and discuss a set of metrics and monitoring tools for adaptation of this sector.
	13:00 - 14:30	Lunch
	14:30 - 16:00	10) Hands-on case study: designing an adaptation process and defining appropriate metrics The trainees will be split in two groups. Each group will have to define an adaptation process for a special case (water or agriculture), determine the information needed and a short list of potential metrics and monitoring tools suitable for the chosen specific case. The results will be then presented and discussed.
	16:00 - 16:30	Break
	16:30 - 18:00	11) Climate finance mechanisms and procedures This session will introduce the finance mechanisms and procedures and present examples of project design for accessing climate finance especially through the Green Climate Fund. 12) Discussion and conclusion

Accommodation and fees:

- No registration fees.
- Accommodation and lunches for the 2 days of the training course will be offered for participants.
- The participants should take care of their travel. However, a limited number of grants might be available depending on sponsoring possibilities.

Registration procedure:

Please complete and send the registration form attached to: Scientific.Communication@um6p.ma