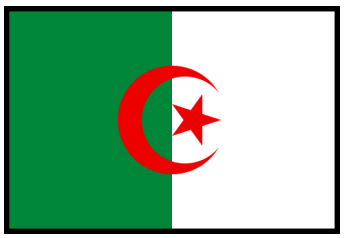
Training course

Adapting to a changing climate:

Exploring future climate conditions and crop and water management solutions



Date: **24-27 September 2017**

Venue: **Algiers, Algeria**

Background

In North Africa, rising temperatures associated with climate change are expected to decrease the land areas suitable for agriculture, shorten the length of growing seasons and reduce crop yields. The decrease in annual precipitation that is predicted for North Africa in the 21st century will exacerbate these effects, particularly in semi-arid and arid regions that rely on irrigation for crop growth.

Droughts and floods are the most common climatic events in North Africa and represent direct threats to lives and livelihoods. Also, the main economic and social activities in North Africa are concentrated along the coastal zones. The population share within 100 km of coast is 68.8 percent in Algeria, 65.1 percent in Morocco, and 84 percent in Tunisia, and they all suffer directly from climate change.

As one of the world's most water-scarce regions with high dependence on climate -sensitive agriculture, the economic and social conditions in North Africa are likely to deteriorate in the future. This is also particularly relevant to the region due to the high dependence of regional economies on agriculture. Crop production would be reduced across much of the region as optimal growing conditions are exceeded. The capacity of the region's communities to cope will be significantly challenged.

This course highlights the above factors of climate change and proposes management solutions to mitigate these factors.

Agenda

Sunday, 24 September 2017

08:30-09:00	**Registration**
09:00-10:00	**Inauguration Session**
	Opening and welcome remarks, Ministry of Agriculture, Rural Development and Fisheries, Algeria
	Opening remarks and briefing about the course by ICBA
	Introduction of participants
	Group photo
10:00-10:30	**Tea/Coffee Break**
10:30-13:00	**Session 1:** Exploring future climate change
	Climate change modeling and adaptation research at ICBA
	Climate change indices – generating insight from raw data
	Discussions
13:00-14:00	**Lunch Break**
14:00-16:00	**Session 2:** Generating national level climate change data –
	The view of Algeria

Organizer

Ministry of Agriculture, Rural Development and Fisheries (MARDF), Algeria

International Center for Biosaline Agriculture (ICBA), United Arab Emirates

Funding Agency

Islamic Development Bank (IsDB)

Partners

Participants from Algeria, Mauritania, Morocco and Tunisia

Trainers

Dr. Makram Belhaj Fraj, Agronomy Scientist, ICBA

Mr. Rashyd Zaaboul, Modeler - Climate Change, ICBA

Course Coordinators

Mr. Hamid Weld Yousef, MARDF

Mr. Ghazi Al-Jabri, ICBA

Monday, 25 September 2017	
08:30-10:00	**Session 3:** Exploring impacts of climate change on future yields using crop modeling
	Biosaline Agricultural Systems in MENA and CAC
	Climate change impact on wheat production
10:00-10:30	**Tea/Coffee Break**
10:30-13:00	**Session 4:** Application of Biosaline Agricultural Systems: North Africa countries
	- Algeria
	- Mauritania
	- Morocco
	- Tunisia
	Discussion
13:00-14:00	**Lunch Break**
14:00-16:00	**Session 5:** Climate-smart agriculture: applications for irrigation scheduling

Tuesday, 26 September 2017	
08:00-16:00	**Field trip to areas experiencing drought and climate change issues**

Wednesday, 27 September 2017	
08:30-10:00	**Session 6:** Climate change adaptation
	Regional drought monitoring for agricultural planning
10:00-10:30	**Tea/Coffee Break**
10:30-13:00	**Session 7:** Focused Groups Discussions
	Practical solutions for crop and water management
	Possibilities offered by salt- and drought-tolerant species as part of adaptation
	The role of saline and treated wastewater in future agriculture
13:00-14:00	**Lunch Break**
14:00-15:00	**Training wrap up and Course evaluation**
15:00-16:00	**Closing Session**
	Closing remarks by ICBA
	Closing remarks by Ministry of Agriculture, Rural Development and Fisheries, Algeria
	Remarks by participants
	Distribution of certificates
	Group photo