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LIMITED
E/ESCWA/C11/2020/WG.1/L.1
16 January 2019
ORIGINAL: ARABIC

Economic and Social Commission for Western Asia

Second Lebanese National Workshop on AquaCrop for Irrigation Water Management
UN House, Beirut, Lebanon, 20-24 January 2020

Agenda

Day 1: Monday, 20 January 2020

08:30 – 09:00	Registration.
09:00 – 09:15	Welcome Statement by ESCWA & ACSAD
09:15 – 10:30	On-the-Job Training on Use of AquaCrop for Irrigation Water Management: Case Study 1 <ul style="list-style-type: none"> • Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD) • Mr. Mazen Naaman, Water Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
10:30 – 11:00	<i>Coffee Break</i>
11:00 – 13:00	On-the-Job Training on Use of AquaCrop for Irrigation Water Management: Case Study 1 <ul style="list-style-type: none"> • Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD) • Mr. Mazen Naaman, Water Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
13:00 – 14:00	<i>Lunch Break</i>

- 14:00 – 15:30 On-the-Job Training on Use of AquaCrop for Irrigation Water Management: Case Study 2
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
 - Mr. Mazen Naaman, Water Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

Wrap up of Day 1

Day 2: Tuesday, 21 January 2020

- 09:00 – 10:30 On-the-Job Training on Use of AquaCrop for Irrigation Water Management: Case Study 2
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
 - Mr. Mazen Naaman, Water Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

10:30 – 11:00 ***Coffee Break***

- 11:00 – 12:30 On-the-Job Training on Use of AquaCrop for Irrigation Water Management: Case Study 2
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
 - Mr. Mazen Naaman, Water Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

- 12:30 – 13:00 Using AquaCrop for the Assessment of the Impact of Climate Change on Crop Yields
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
 - Mr. Mazen Naaman, Water Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

13:00 – 14:00 ***Lunch Break***

- 14:00 – 15:30 Using AquaCrop for the Assessment of the Impact of Climate Change on Crop Yields
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
 - Mr. Mazen Naaman, Water Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

Wrap up of Day 2

Day 3: Wednesday 22 January 2020

- 09:00 – 10:30 Review of estimating crop water requirement and irrigation scheduling
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
- 10:30 – 11:00 ***Coffee Break.***
- 11:00 – 13:00 Using cropwat for irrigation scheduling
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
- 12:00 – 13:00 Using Loclim database with cropwat software
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
- 13:00 – 14:00 ***Lunch Break***
- 14:00 – 15:30 Case study on using cropwat for estimating crop water requirement and irrigation scheduling of fruit tree
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

Wrap up of Day 3

Day 4: Thursday 23 January 2020

- 09.00 - 10.00 General Review of RICCAR
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
- 10:00 – 10:30 **Coffee Break**
- 10:30 – 11:30 Introduction to NetCDF and Multidimensional Tools
- Create Raster files from NetCDF files
- Ms. Hiam Alashkar, GIS Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
 - Mr. Ali Ismail, GIS Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
- 11:30 – 13:00 Create Tabular Time Series Data using NetCDF
- Mr. Ali Ismail, GIS Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD);
 - Ms. Hiam Alashkar, GIS Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
- 13:00 – 14:00 **Lunch Break**
- 14:00 – 15:30 Using Model Builder to Create Time Series Data
- Ms. Hiam Alashkar, GIS Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
 - Mr. Ali Ismail, GIS Expert, Arab Center for the Studies of Arid Zones and dry Lands (ACSAD)

Wrap up of day 4

Day 5: Friday 24 January 2020

- 09:00 – 10:30 Climate Data from the **EURO-CORDEX**
- Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
- 10:30 – 11:30 Create Multi Time Slices from NetCDF file

- Mr. Ali Ismail, GIS Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
- Ms. Hiam Alashkar, GIS Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

11:30 – 13:00

Lunch Break & Friday prayer

13:00 – 14:00

Using Spatial Analyst Tool to Create Ensamples

- Ms. Hiam Alashkar, GIS Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)
- Mr. Ali Ismail, GIS Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

14:00 – 15:00

Climate Data Interpolation for Coastal Areas

- Mr. Ali Ismail, GIS Expert, Arab Center for the Studies of Arid Zones and dry Lands (ACSAD)
- Ms. Hiam Alashkar, GIS Expert, Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

15:00 – 15:30

Using Wapor application to download satellite rainfall data

Mr. Ihab Jnad, Head of Water Resources Department, Arab Center for the Studies

Closing Session