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Economic and Social Commission for Western Asia (ESCWA)

Improved Groundwater Management in the Arab Region Assessment of Climate Change Impacts on Groundwater Resources: National Workshop for Jordan and State of Palestine Amman, 27-29 February 2024

Draft Agenda

	Tuesday, 27 February 2024
09:00-09:30	In-person Check-in The workshop will be held in W Amman hotel, Amman, Jordan.
	Opening Session and Introduction
09:30-09:35	Opening Statement
	 Mr. Ziad Khayat, Coordinator, IWRM for Improved Water Security, Climate Change and Natural Resource Sustainability Cluster, Economic and Social Commission for Western Asia, ESCWA Mr. Ihab Jnad, Director, Water Resources Department, Arab Center for the Studies of Arid Zones and Dry Lands, ACSAD
09:35-09:45	Tour de Table
09:45-9:50	Review of Workshop Objectives and Agenda • Mr. Ihab Jnad, ACSAD
09:50-10:05	 Study areas in Jordan and Palestine Country representatives from Jordan Country representatives from Palestine
Session I	Overview on Climate Change and Methods to Determine Recharge
Presenters:	Mr. Ihab Jnad, Mr. Mazen Naaman, Mr. Mahmoud Al-Sibai, Water Resources Department, ACSAD
10:05-10:30	 RICCAR initiative and highlights Ms. Tracy Zaarour, Research Assistant, Climate Change and Natural Resource Sustainability Cluster, ESCWA
10:30-11:00	Coffee break

11:00-12:00	Extracting climate change data in the Arab region: 1) From RICCAR database, 2) from Earth System Grid Federation (ESGF)
12:00-13:30	Methods to determine recharge
13:30-14:30	Lunch
Session II	Groundwater Modeling
14:30-16:00	 The importance of mathematical modeling of groundwater and a reminder of the stages of model building Installing GMS modeling software and a quick introduction to it Building the conceptual model Review the conceptual model of the study area
	Wednesday, 28 February 2024
Session III	Climate Data Extraction and Model Run for the Calibration Period
9:00-10:30	Extracting climate data
10:30-11:00	Coffee break
11:00-12:30	Preparing stress inputs and boundary conditions for the calibration period
12:30-13:30	Lunch
13:30-16:00	 Running the model and reviewing the results for the calibration period Adjusting the simulation period to include the projection period until 2070
	Thursday, 29 February 2024
Session IV	Model Run for the Projection Period
09:00-10:30	Preparing the boundary conditions of the prediction period of one of the climate model and entering them into the model
10:30-11:00	Coffee break
11:00-13:00	 Running the model for the projection period of one of the climate models: Review of modeling results Summary of the results compared to the reference period Preparation of groundwater level maps for the projection period Preparation of drawdown maps for the projection period compared to the reference period

14:00-15:00	Running the model for the prediction period of one of the climate models- Continued
15:00-15:45	Guidance on the preparation of the case study reportDiscussion

Lunch

13:00-14:00

Session V	Summary Reflections and Next Steps
15:45-16:00	Summary of next steps • Mr. Ihab Jnad, ACSAD • Mr. Ziad Khayat, ESCWA