



Shared Prosperity Dignified Life



## RICCAR Webinar Series on Climate Change Analysis using GIS Tools

A virtual workshop series targeting government officials and researchers in the Arab region who are working in the area of climate change impact assessment and analysis using geospatial information system (GIS) tools, particularly in the water and agricultural sectors.

**Live weekly sessions:** 1 July – 5 August 2020  
Wednesdays from 15:00 – 16:00 Beirut summertime (GMT+3), including Q&A

**Recorded modules:** Available on the RICCAR Regional Knowledge Hub following the delivery of each module, along with associated training materials

Webinars 2 through 6 include interactive exercises with climate datasets to help maximize learning benefits. Certain modules require familiarity with and access to ArcMap 10.3 (or later version) with the Spatial Analyst extension to participate in the training exercises. Datasets will be provided by the instructor and will be available on the RICCAR Regional Knowledge Hub ([www.riccar.org](http://www.riccar.org)).

Date	#	Module Title	Outline	Prerequisites
1 July	1	RICCAR regional climate modelling and hydrological modelling datasets: An introduction	<ul style="list-style-type: none"> <li>• RICCAR mandate and the Arab/MENA Domain</li> <li>• Understanding climate scenarios and the IPCC AR5 representative concentration pathways (RCPs)</li> <li>• Regional or global: Advantages of regional climate modeling and hydrological modeling projections and datasets</li> <li>• Climate parameters and climate indices for land-based models</li> <li>• Key findings from RICCAR regional climate modeling and hydrological modeling projections</li> </ul>	<ul style="list-style-type: none"> <li>• None</li> </ul>
8 July	2	Viewing NetCDF regional climate modeling datasets in GIS	<ul style="list-style-type: none"> <li>• What is NetCDF?</li> <li>• Multidimension tools: Working with NetCDF files in a GIS platform</li> <li>• Visualizing NetCDF files</li> </ul>	<ul style="list-style-type: none"> <li>• ArcGIS familiarity</li> <li>• Module 1</li> </ul>
15 July	3	Extracting tabular data from NetCDF climate files for use in other models and applications	<ul style="list-style-type: none"> <li>• Extracting time series datasets from NetCDF</li> <li>• How to extract daily climate data for a given location for use in other models and applications</li> <li>• Benefits and utilization of ArcMap Model Builder for NetCDF files</li> </ul>	<ul style="list-style-type: none"> <li>• ArcGIS familiarity</li> <li>• Modules 1 and 2</li> </ul>

22 July	4	Creating a regional climate model ensemble using GIS and extreme events indices	<ul style="list-style-type: none"> <li>• Benefits of ensemble analysis</li> <li>• How to create a regional climate model (RCM) ensemble in GIS</li> <li>• RICCAR extreme events indices and applications</li> </ul>	<ul style="list-style-type: none"> <li>• ArcGIS familiarity</li> <li>• Modules 1 and 2</li> </ul>
29 July	5	Accessing global and regional climate datasets and platforms	<ul style="list-style-type: none"> <li>• What is CORDEX?</li> <li>• Accessing and navigating the ESGF open source platform</li> <li>• Accessing maps and dataset from the RICCAR Data Portal</li> </ul>	<ul style="list-style-type: none"> <li>• Module 1</li> </ul>
5 August	6	RICCAR integrated vulnerability assessment methodology	<ul style="list-style-type: none"> <li>• Why are geospatial vulnerability assessments useful at the regional, basin, local and sectoral scales?</li> <li>• RICCAR integrated vulnerability assessment methodology</li> <li>• Vulnerability assessment data aggregation</li> <li>• Integrated mapping tools</li> </ul>	<ul style="list-style-type: none"> <li>• ArcGIS familiarity</li> <li>• Module 1</li> </ul>

**Registration and documentation:**

- Webinars will be conducted in the English language. The training materials, slide presentation and an Arabic language translation of the PowerPoints will be made available to all registered participants prior to the delivery of each live webinar session.
- Registration for one or more webinar is available up to one week prior to each session via the following [link](#) or by visiting: <https://forms.gle/ta3vyceRCfwc6cLw5>.
- Registered participants will receive a weblink to join the selected webinar two days prior to the session, along with the associated documentation. The webinar will be conducted using an MS Teams platform that is accessible via the Internet or by using the MS Teams app.
- Webinars will be recorded and will be made available as separate modules, along with the associated documentation, on the [RICCAR Regional Knowledge Hub](#) and [Arab Centre for Climate Change Policies](#) webpage. Video recordings will also be available on the [ESCWA YouTube](#) channel playlist.

**For inquiries, please contact:**

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