

Economic and Social Commission for Western Asia

# Accessing the RICCAR Regional Knowledge Hub and Data Portal

Mashreq Waters Knowledge Series: Workshop on Economic Implications of Climate Change and Water Scarcity in the Mashreq Region  
1-3 December 2020



Shared Prosperity **Dignified Life**

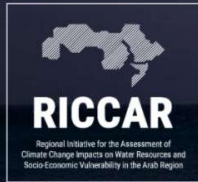


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Regional Advisor for GIS for Climate Change Analysis  
Climate Change and Natural Resources Sustainability  
Cluster  
ESCWA

# RICCAR Regional Knowledge Hub

- Central aim of the RKH is to provide **access to information** that can **facilitate cooperation, coordination, dialogue** and **exchange** among Arab States, organizations, and stakeholders and to **support awareness raising** as well as regional networking and exchange on issues related to climate change and water resources in the region
- Access to RICCAR **assessment findings** and associated **datasets**, which is comprised of two open-access components: a website and a data portal
- **Website** provides access to all RICCAR reports and technical materials, prepared by the implementing partners; informs on training tools, activities and events; and offers assistance tools for submitting inquiries and requests for support. All information related to RICCAR, including meetings, workshops and related materials can be consulted on the website.
- **Data portal** allows interactive visualization of RICCAR maps and provides access to RICCAR data repository. Moreover, it presents search functionality and research tools for generating maps, downloading datasets, and exporting outputs in different formats. It also includes links to other databases of relevance through the platform.



REGIONAL INITIATIVE FOR THE ASSESSMENT OF CLIMATE CHANGE IMPACTS ON WATER RESOURCES AND SOCIO-ECONOMIC VULNERABILITY IN THE ARAB REGION



Partners



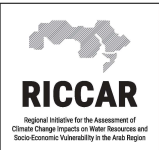
Overview



Meetings & Events



Data Portal

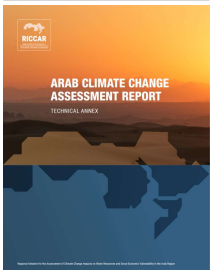


# Knowledge Resources: RICCAR Publication Series

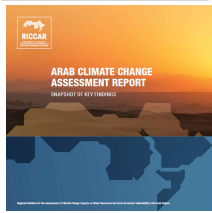
## Main Report and Executive Summary



## Technical Annex



## Booklets



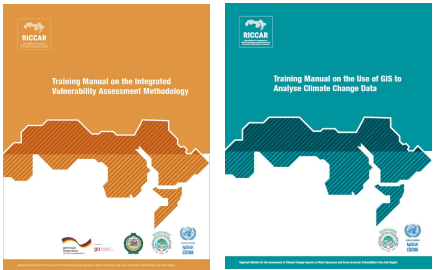
## Technical Reports



## Technical Notes



## Training Tools





# Knowledge Nodes: Adaptation

## Assessing the Impacts of Changing Water Availability on Agricultural Production

This block contains 12 posters, each representing a study on agricultural adaptation in a different Arab country. Each poster features a central image of agricultural land with a national flag in the corner and logos for Sverige (Sweden) and the National Center for Environmental and Natural Resources Research (NCCRN) at the bottom. The countries represented are:

- Tunisia
- Lebanon
- Jordan
- Yemen
- Libya
- Algeria
- Egypt
- Saudi Arabia
- Morocco
- Qatar
- UAE
- Sudan

## Water-Energy Nexus Regional Policy Toolkit

This block displays four posters from the Water-Energy Nexus Regional Policy Toolkit, each illustrating a different module:

- Developing the Capacity of ESCWA Member Countries to Address the Water and Energy Nexus for Achieving Sustainable Development Goals** (Regional Policy Toolkit)
- Developing the Capacity of ESCWA Member Countries to Address the Water and Energy Nexus for Achieving Sustainable Development Goals** (Water-Energy Nexus Operational Toolkit Resource Efficiency Module)
- Developing the Capacity of ESCWA Member Countries to Address the Water and Energy Nexus for Achieving Sustainable Development Goals** (Water-Energy Nexus Operational Toolkit Technology Transfer Module)
- Developing the Capacity of ESCWA Member Countries to Address the Water and Energy Nexus for Achieving Sustainable Development Goals** (Water-Energy Nexus Operational Toolkit Renewable Energy Module)

## Climate Change Adaptation using Integrated Water Resources Management Tools

This block features six posters illustrating climate change adaptation strategies in various sectors using integrated water resources management tools:

- Introduction**: Developing the Capacities of the Arab Countries for Climate Change Adaptation Using Integrated Water Resources Management Tools.
- Environment**: Climate Change Adaptation and Ecosystem Based Management Using Integrated Water Resources Management Tools.
- Agriculture**: Climate Change Adaptation in Agriculture, Forestry and Fisheries Using Integrated Water Resources Management Tools.
- Health**: Climate Change Adaptation in the Health Sector Using Integrated Water Resources Management Tools.
- Human Settlements**: Climate Change Adaptation in Human Settlements Using Integrated Water Resources Management Tools.
- Economic Development**: Climate Change Adaptation in Economic Development Using Integrated Water Resources Management Tools.



Map

RICCAR

My Profile ? About

## RICCAR RKH Data Portal

CLIMATE HYDROLOGY VULNERABILITY

LEGEND

TAS - Change in Annual Temperature (RCM)

TAS - Change in Annual Temperature (RCM Ensemble for near-,mid-,end-century). [See more in Catalog](#)

no data

< 1 °C

1.5 - 2.0 °C

2.0 - 2.5 °C

2.5 - 3.0 °C

3.0 - 3.5 °C

3.5 - 4.0 °C

4.0 - 4.5 °C

More options

- Climate, hydrology, and vulnerability assessment data online map viewing
- Data catalog to download GIS datasets, presentation quality maps, factsheets, and statistics
- Data analysis to include point and areal time series



ANALYSIS



LOCATE



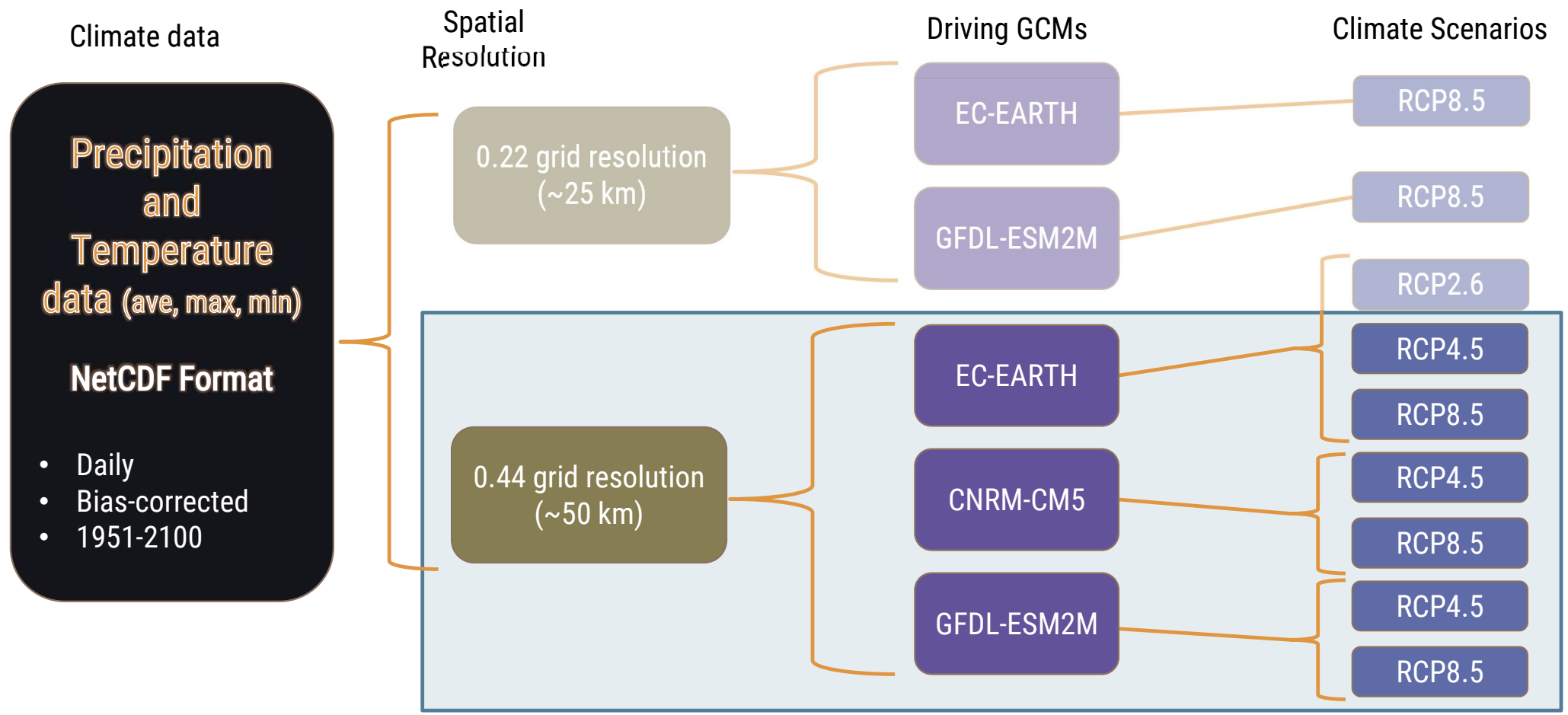
LAYERS



CATALOG

500 km

# RICCAR Climate Modelling Outputs



# From GCMs to RCMs

CNRM-CM5

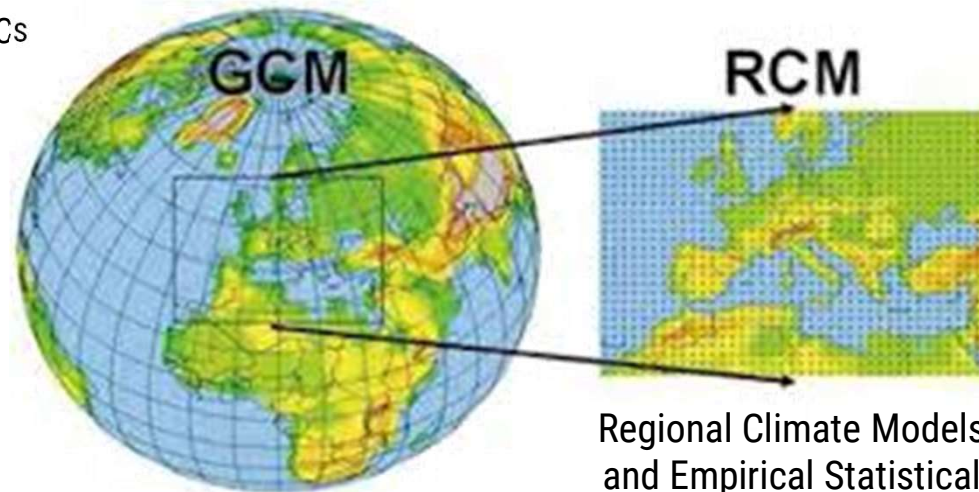
CNRM (Météo-France/CNRS) and CERFACs

EC-EARTH

Europe-wide consortium

GFDL-ESM2M

NOAA Geophysical Fluid Dynamics Laboratory

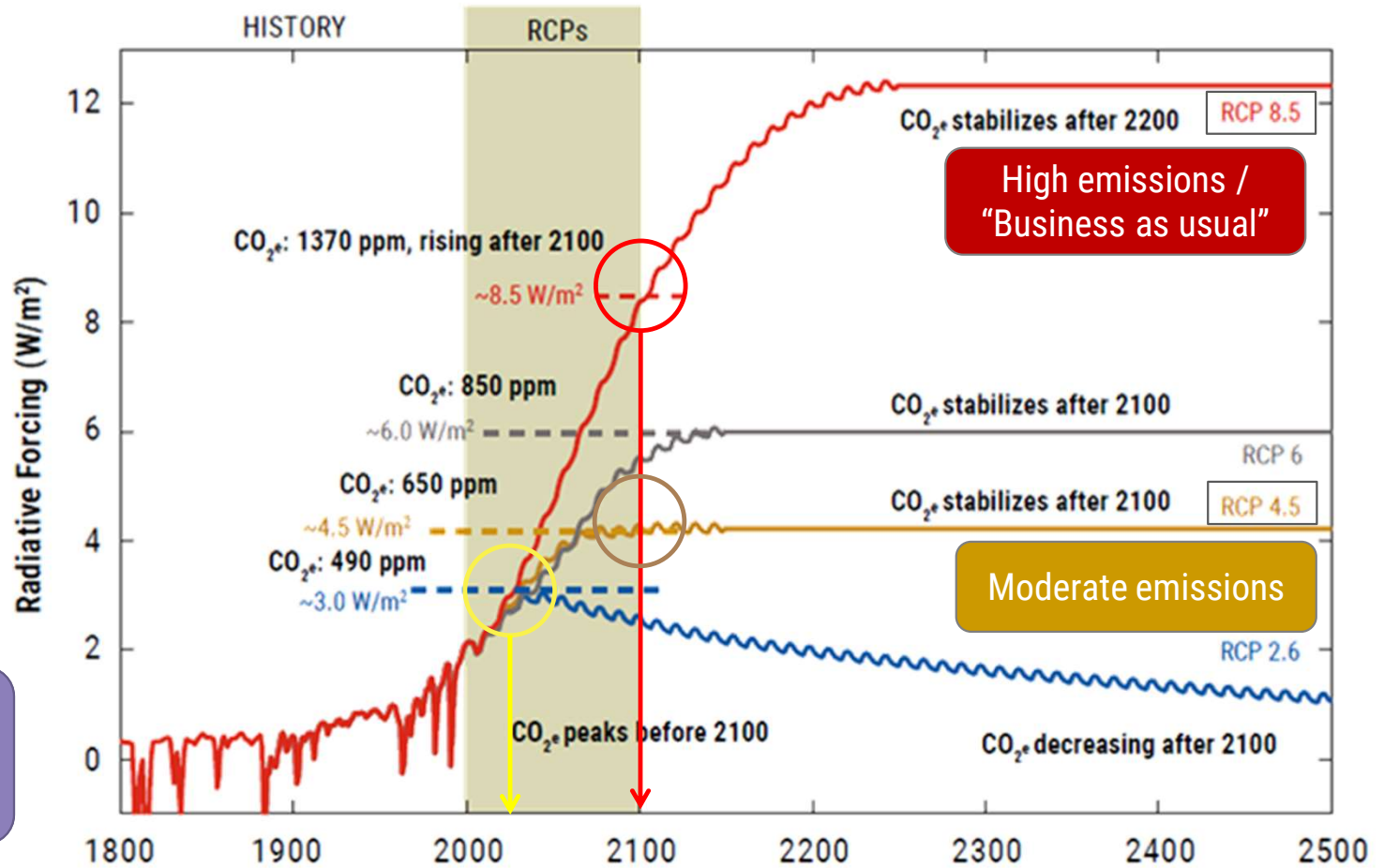


Regional Climate Models  
and Empirical Statistical  
Downscaling

RCA4

SMHI Rosby Centre  
Atmospheric Model

# Climate Scenarios: Representative Concentration Pathways (RCPs) [IPCC AR5 (2014)]



RCP2.6

RCP4.5

RCP8.5

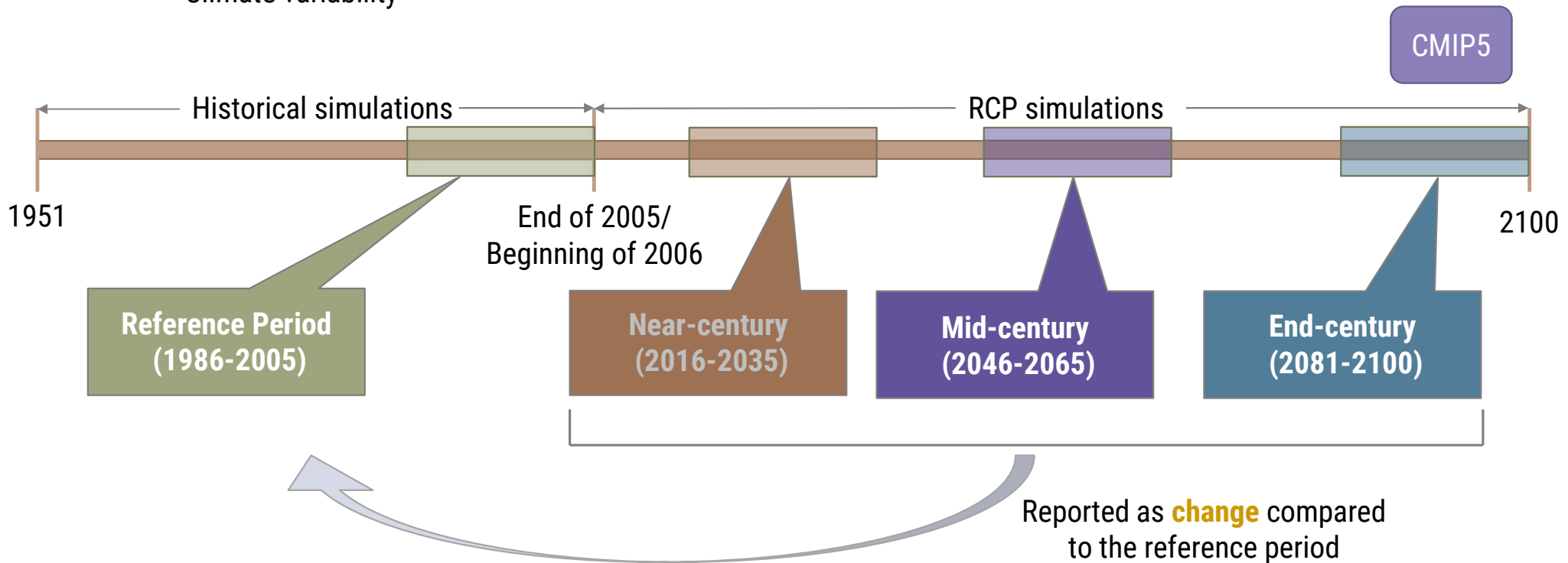
None will get us to less than 1.5 °C by 2100



# Daily RCM Outputs to Ensembles

Use multiple model outputs (3 or more) to assess for a long-range period (20 years)

- Individual modelling outputs exhibit biases
- Climate variability



# RKH Map Viewing

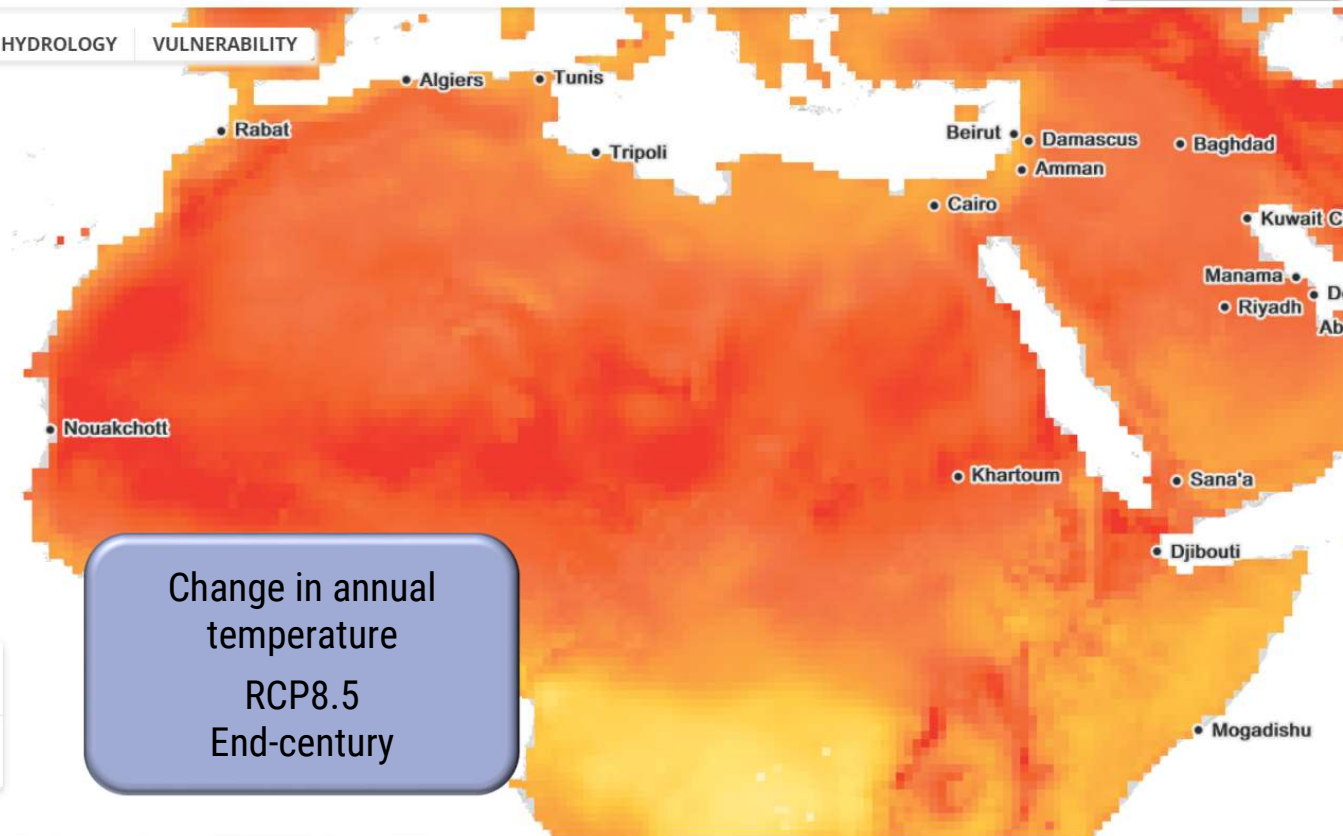


Map

RICCAR

My Profile ? About

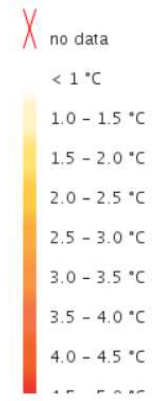
CLIMATE HYDROLOGY VULNERABILITY



LEGEND

TAS - Change in Annual Temperature (RCM)

TAS - Change in Annual Temperature (RCM Ensemble for near-,mid-,end-century). [See more in Catalog](#)



More options

ANALYSIS LOCATE  
LAYERS CATALOG

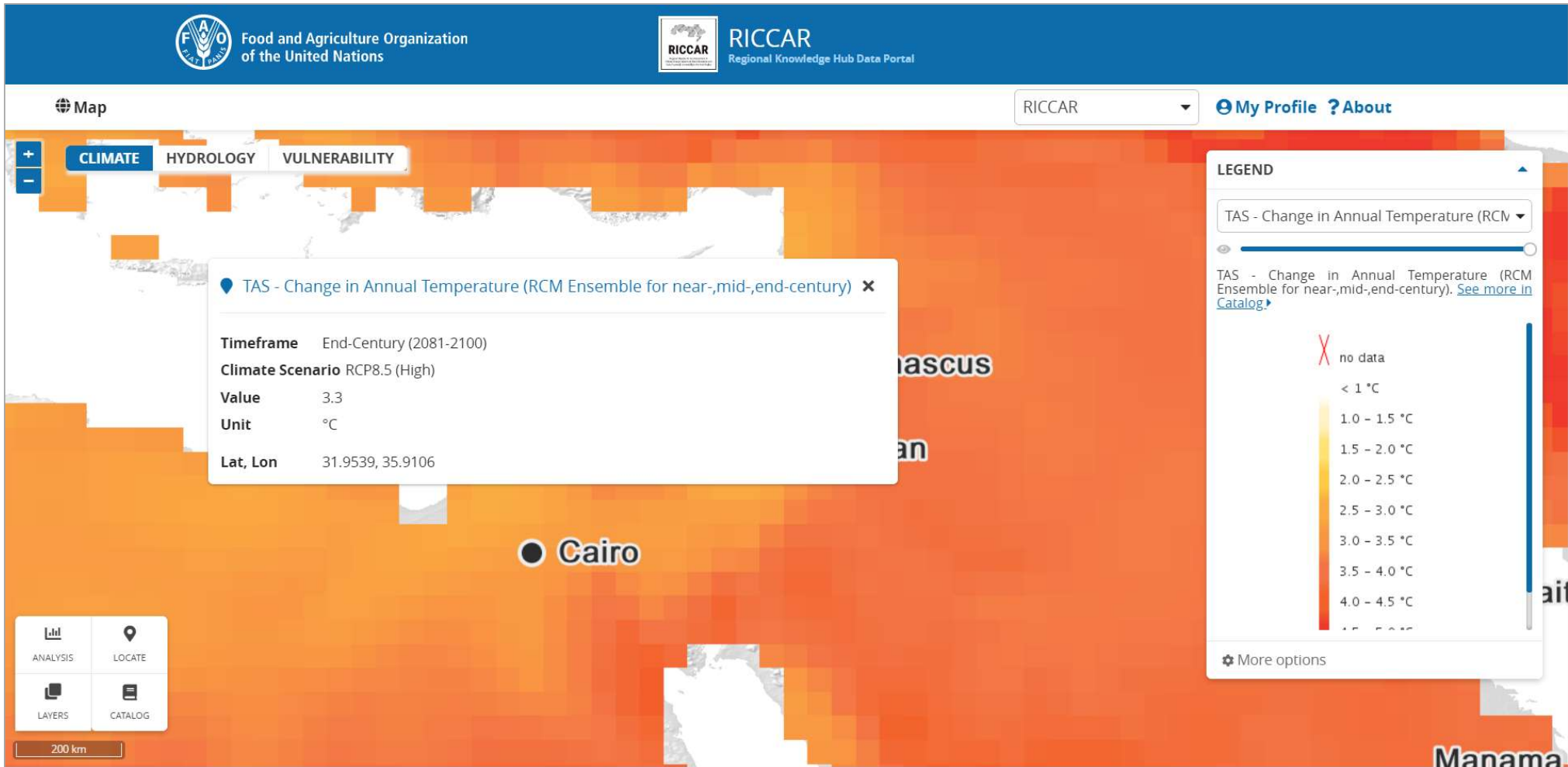
500 km

# Locate and obtain results for current dataset




The screenshot displays the RICCAR Regional Knowledge Hub Data Portal interface. At the top, the Food and Agriculture Organization of the United Nations logo and the RICCAR logo are visible. The main navigation bar includes 'Map', 'CLIMATE', 'HYDROLOGY', and 'VULNERABILITY'. A search overlay is active, showing a search bar with 'Amman' entered and a 'Go' button. A legend on the right side indicates the dataset is 'TAS - Change in Annual Temperature (RCM Ensemble for near-,mid-,end-century)' and shows a color scale for temperature change in degrees Celsius, ranging from < 1 °C to 4.0 - 4.5 °C. The map shows a color-coded temperature change across the Arab region, with major cities like Beirut, Damascus, Amman, Baghdad, Cairo, Kuwait City, Manama, Riyadh, Doha, and Abu Dhabi marked.


# Locate and obtain results for current dataset




# Area raster download




Food and Agriculture Organization  
of the United Nations



**RICCAR**  
Regional Knowledge Hub Data Portal


Map

AR
My Profile ? About


**CLIMATE** HYDROLOGY VULNERABILITY

**SELECT OPERATION**

Area Raster Download

**OPERATION DESCRIPTION**

Clip and download raster for the selected area.

**LAYER**

Dataset

TAS - Change in Annual Temperature (RCM Ensemble for near-,mid-,

**PLACE**

Timeframe

End-Century (2081-2100)

←
→

Climate Scenario

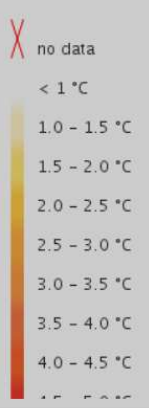
RCP8.5 (High)

←
→

Run Operation

**LEGEND**

TAS - Change in Annual Temperature (RCM Ensemble for near-,mid-,end-century). [See more in Catalog](#)



no data

< 1 °C

1.0 - 1.5 °C

1.5 - 2.0 °C

2.0 - 2.5 °C


2.5 - 3.0 °C

3.0 - 3.5 °C


3.5 - 4.0 °C

4.0 - 4.5 °C


⚙ More options




ANALYSIS



LOCATE



LAYERS



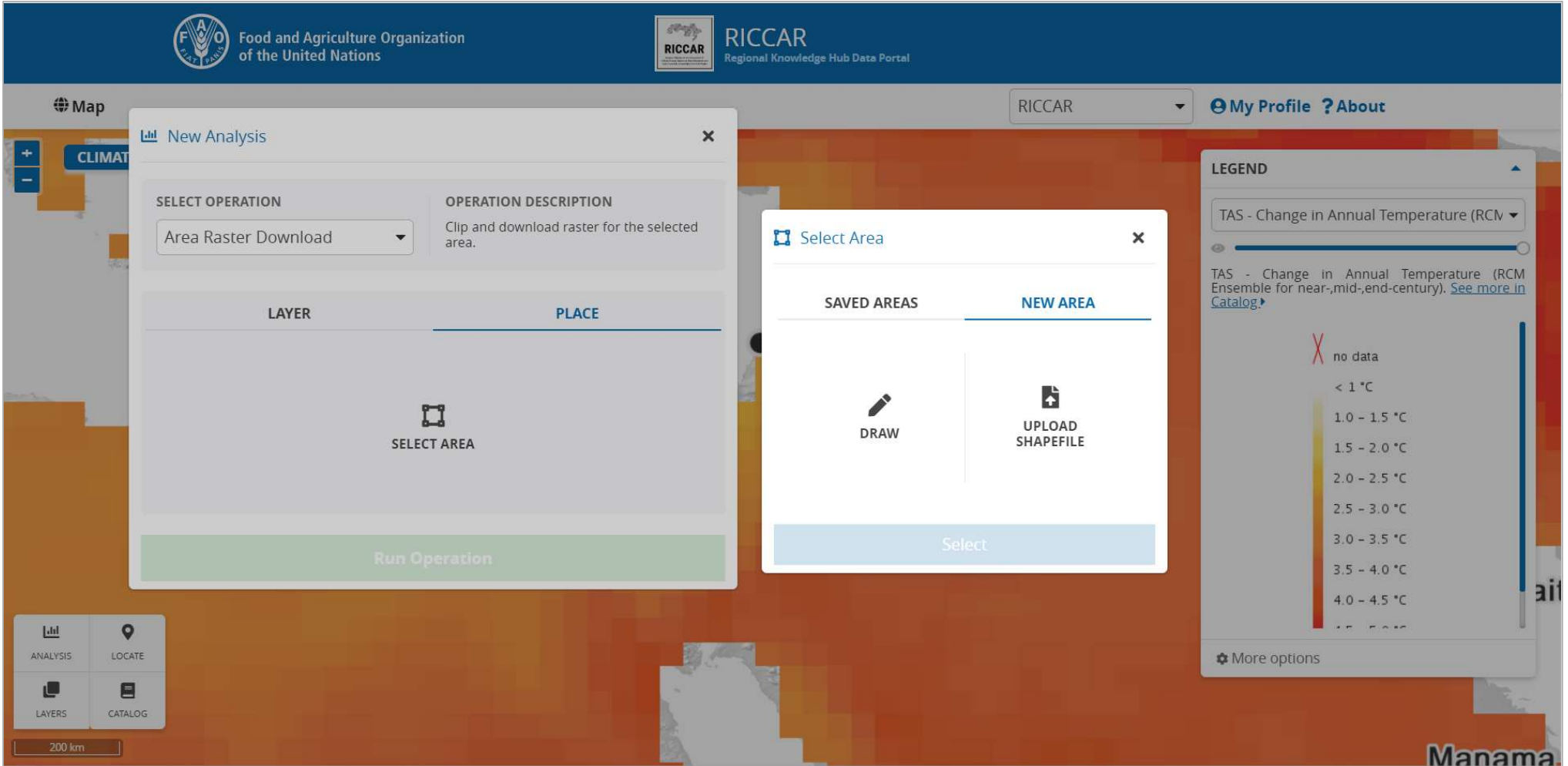
CATALOG

200 km

Manama



# Area raster download



The screenshot displays the RICCAR web application interface. At the top, the FAO logo and 'Food and Agriculture Organization of the United Nations' are on the left, and the RICCAR logo and 'Regional Knowledge Hub Data Portal' are on the right. The main navigation bar includes 'Map', 'RICCAR', 'My Profile', and 'About'.

The central focus is the 'New Analysis' dialog box, which is open to the 'Area Raster Download' operation. It features a 'SELECT OPERATION' dropdown menu set to 'Area Raster Download' and an 'OPERATION DESCRIPTION' field stating 'Clip and download raster for the selected area.' Below this is a 'LAYER' and 'PLACE' section with a 'SELECT AREA' button and a 'Run Operation' button at the bottom.

Overlaid on the 'New Analysis' dialog is the 'Select Area' dialog box. It has two tabs: 'SAVED AREAS' and 'NEW AREA'. Under 'NEW AREA', there are two options: 'DRAW' (with a pencil icon) and 'UPLOAD SHAPEFILE' (with a document icon). A 'Select' button is located at the bottom of this dialog.

On the right side of the interface, a 'LEGEND' panel is visible, showing the selected layer: 'TAS - Change in Annual Temperature (RCM Ensemble for near-,mid-,end-century)'. Below the legend is a color scale ranging from red (no data) to blue (4.5 - 5.0 °C), with intermediate values at < 1 °C, 1.0 - 1.5 °C, 1.5 - 2.0 °C, 2.0 - 2.5 °C, 2.5 - 3.0 °C, 3.0 - 3.5 °C, and 3.5 - 4.0 °C. A 'More options' button is at the bottom of the legend.

At the bottom left, there is a navigation menu with 'ANALYSIS', 'LOCATE', 'LAYERS', and 'CATALOG' buttons. A scale bar indicates '200 km'. The word 'Manama' is visible in the bottom right corner of the map area.

# Area raster download



Food and Agriculture Organization  
of the United Nations



**RICCAR**  
Regional Knowledge Hub Data Portal

Map

RICCAR

[My Profile](#) [? About](#)

CLIMATE

HYDROLOGY

VULNERABILITY

LEGEND

Beirut

Damascus

Baghdad

Amman

Cairo

Kuwait



EXIT



LOCATE



LAYERS



CATALOG

200 km

Manama

# Available Climate Ensembles for Map Viewing

## Climate parameters

- Precipitation
- Temperature
- Tmax
- Tmin

## Ensemble Mean from 3 models

- Reference period (1986-2005)
- Near-century (2016-2035)
- Mid-century (2046-2065)
- End-century (2081-2100)

## Extreme events indices (Temperature)

- Number of summer days (SU)
- Number of hot days (SU35)
- Number of very hot days (SU40)
- Number of tropical nights (TR)

## Extreme events indices (Precipitation)

- Maximum length of dry spell (CDD)
- Maximum length of wet spell (CWD)
- Annual count of 10 mm precipitation days (R10)
- Annual count of 20 mm precipitation days (R20)
- Simple precipitation intensity index)

# Time series analysis



Map

RICCAR

[My Profile](#) [? About](#)

**CLIMATE** HYDROLOGY VULNERABILITY

New Analysis

SELECT OPERATION

Point Time Series

OPERATION DESCRIPTION

Retrieve time-series on selected point.

LAYER

PLACE

PARAMETERS

Dataset

R10 - Annual Count of 10 mm precipitation days (RCM Ensemble for

Climate Scenario

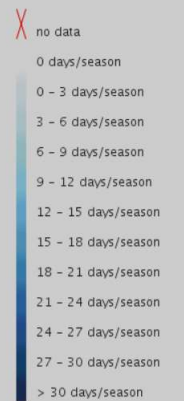
RCP8.5 (High)

Run Operation

LEGEND

R10 - Seasonal Count of 10 mm precipitati

R10 - Seasonal Count of 10 mm precipitation days  
(Global Climate Models 1951 to 2100). [See more in  
Catalog](#)



More options

ANALYSIS LOCATE  
LAYERS CATALOG

500 km

# Time series analysis (point)

Only currently available for extreme events indices

Run one model at a time

New Analysis
✕

**SELECT OPERATION**

Point Time Series

**OPERATION DESCRIPTION**

Retrieve time-series on selected point.

LAYER	PLACE	PARAMETERS
Dataset		
R10 - Annual Count of 10 mm precipitation days (Global Climate Mo		
Global Climate Model		
CNRM-CM5 System Model		
← →		
Climate Scenario		
RCP8.5 (High)		
← →		
Year		
2100		
← →		

**Run Operation**

New Analysis
✕

**SELECT OPERATION**

Point Time Series

**OPERATION DESCRIPTION**

Retrieve time-series on selected point.

LAYER	PLACE	PARAMETERS
<div style="border: 1px solid #ccc; padding: 5px; display: inline-block;"> <b>Custom Point</b> POINT           </div> <div style="margin-left: 10px; background-color: #0070C0; color: white; padding: 2px 5px; border-radius: 3px;">Save in Profile</div>		
<a href="#" style="color: #0070C0; text-decoration: none;">SELECT NEW PLACE</a>		

**Run Operation**

New Analysis
✕

**SELECT OPERATION**

Point Time Series

**OPERATION DESCRIPTION**

Retrieve time-series on selected point.

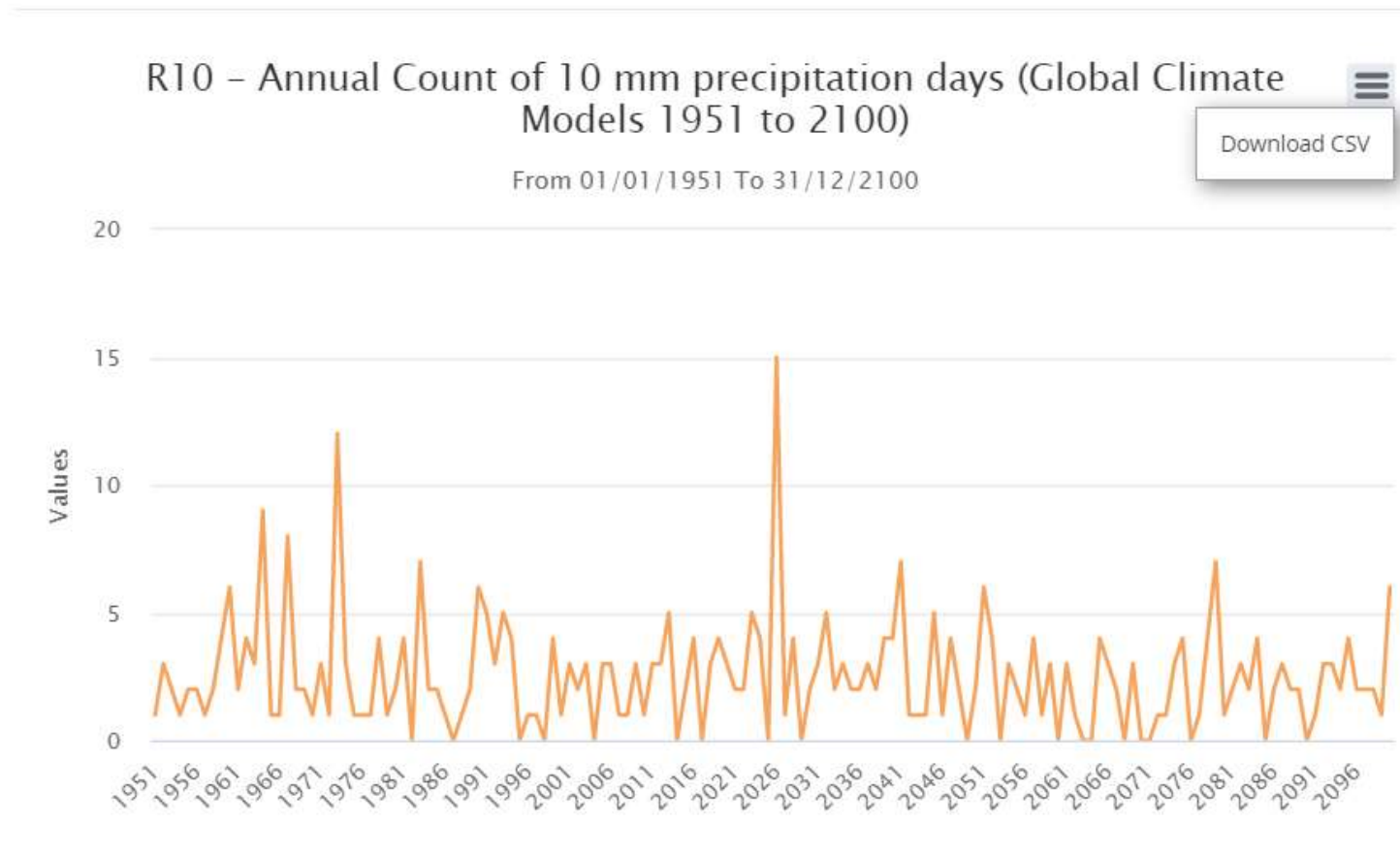
LAYER	PLACE	PARAMETERS
FROM		<p><b>SAVED TIME SERIES</b></p> <p>Select a saved time seri</p>
01/01/1951		
TO		<div style="background-color: #0070C0; color: white; padding: 2px 5px; border-radius: 3px;">Save in Profile</div>
31/12/2100		

**Run Operation**



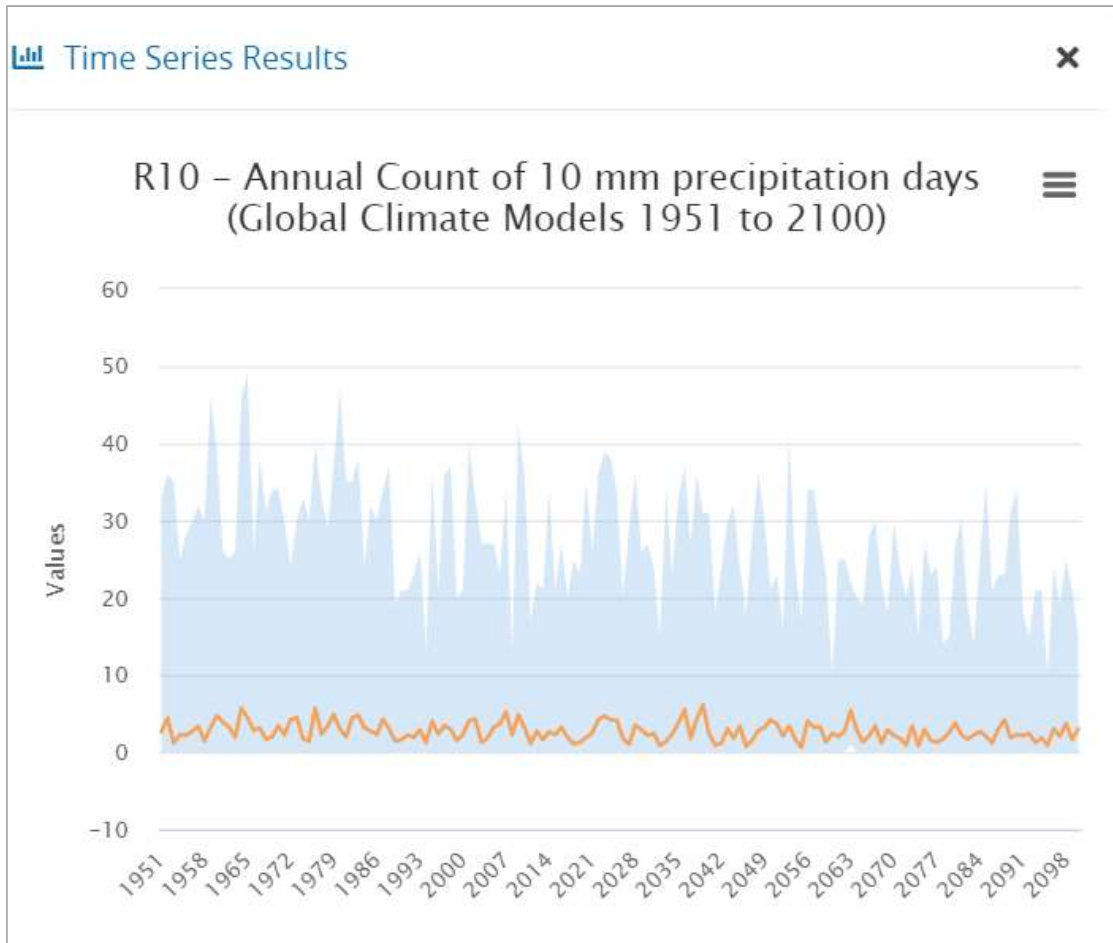
# Time series analysis (point)

 R10 - Annual Count of 10 mm precipitation days (Global Climate Models 1951 to 2100) 



Helpful for using  
as input into  
other models  
(hydrology,  
impact studies)

# Time series analysis (area)



Category	Average	Range (low)	Range (high)
1951	2.623	0	33
1952	4.397	0	36
1953	1.185	0	35
1954	2.252	0	25
1955	2.219	0	28
1956	2.682	0	30
1957	3.351	0	32
1958	1.437	0	30
1959	3.212	0	46
1960	4.715	0	39
1961	3.861	0	26
1962	3.238	0	25
1963	1.934	0	26
1964	5.682	0	46
1965	4.47	0	49
1966	2.808	0	26
1967	3.139	0	38
1968	1.629	0	31
1969	2.02	0	34
1970	3.411	0	34
1971	2.291	0	30
1972	4.219	0	24
1973	4.45	0	30
1974	1.788	0	33
1975	1.397	0	30
1976	5.702	0	40
1977	2.344	0	33
1978	3.318	0	29

R10 - Annual Count of 10 mm pre

# RKH: Regional Hydrological Modelling Outputs



Food and Agriculture Organization  
of the United Nations



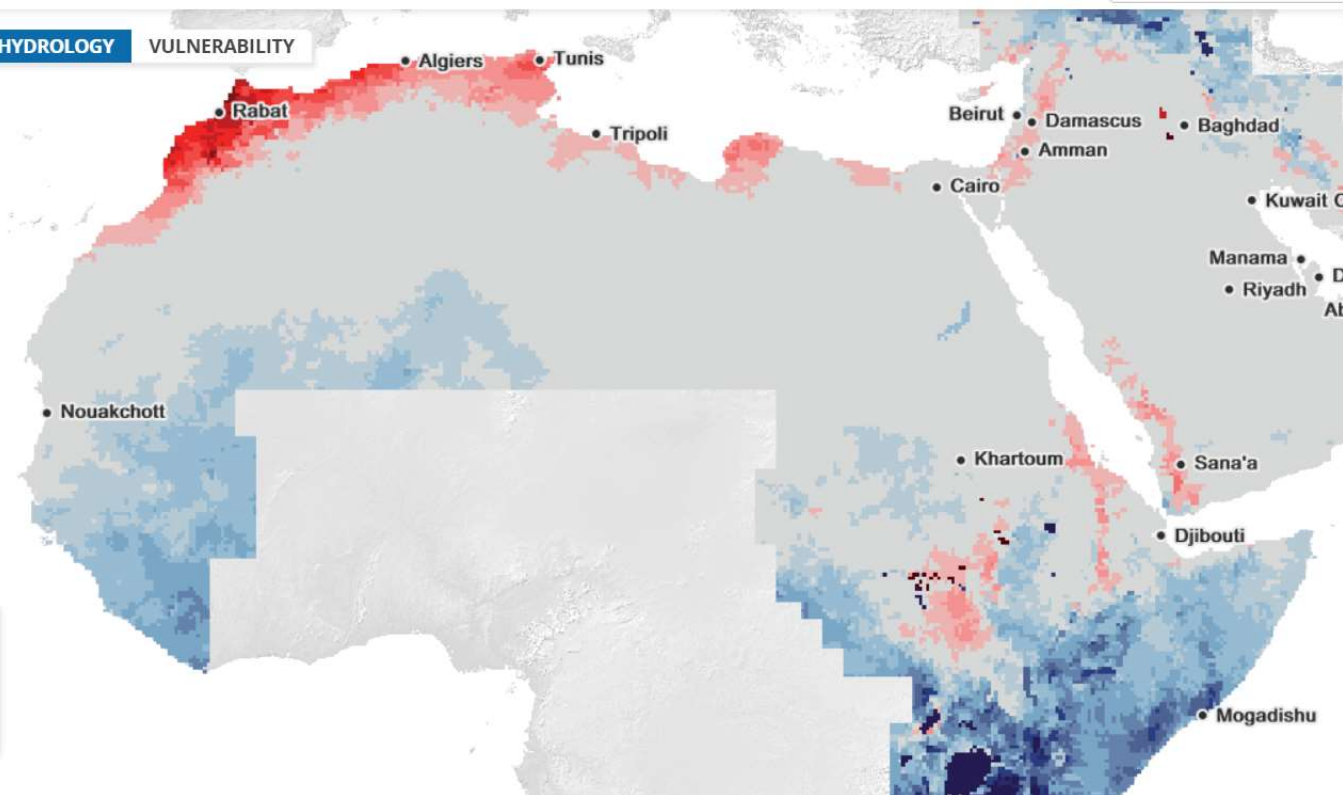
RICCAR  
Regional Knowledge Hub Data Portal

Map

RICCAR

My Profile ? About

CLIMATE **HYDROLOGY** VULNERABILITY



LEGEND

ET - Change in Annual Evapotranspiration

ET - Change in Annual Evapotranspiration (RHM Ensemble for near-,mid-,end-century). [See more in Catalog](#)

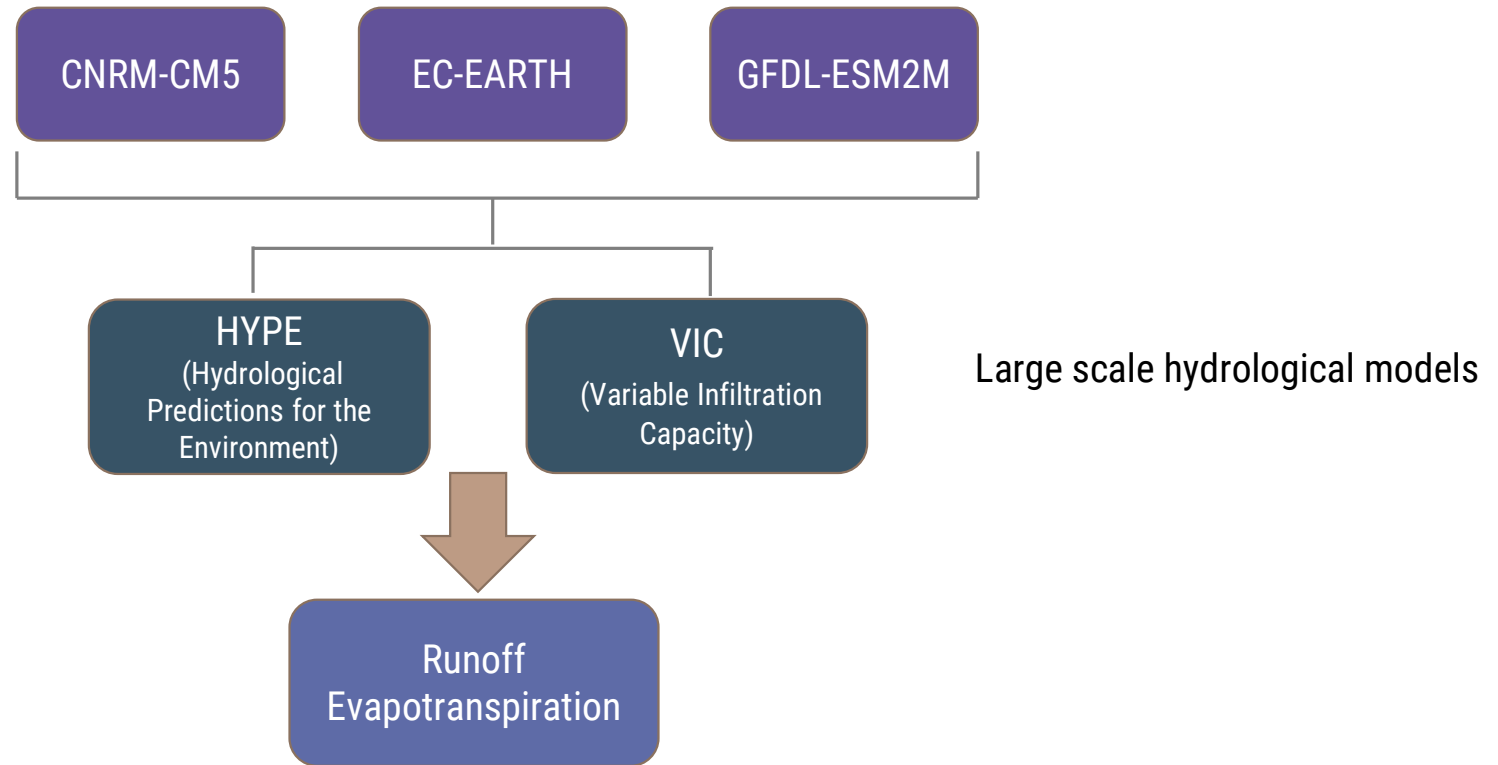


More options

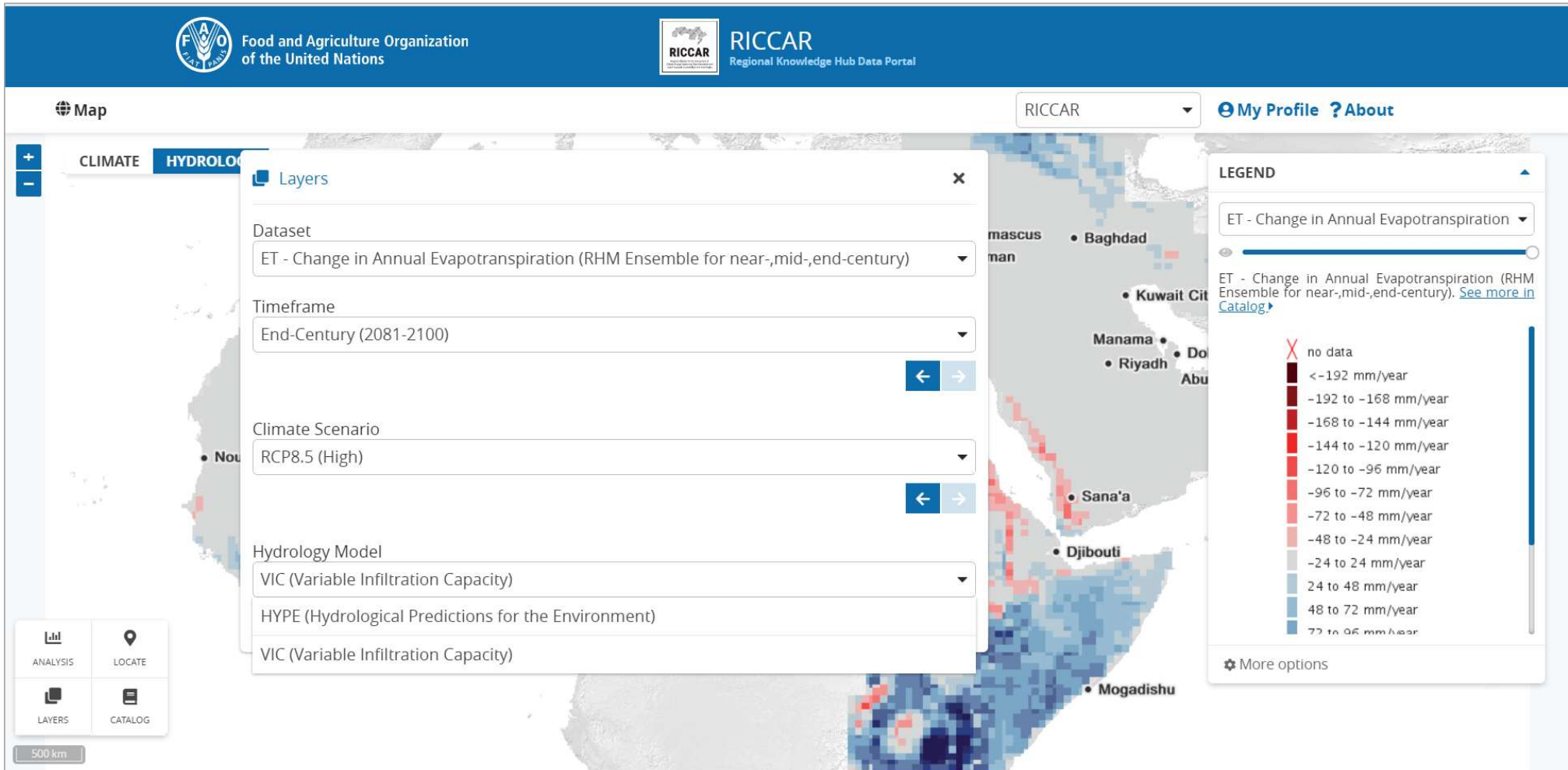
ANALYSIS LOCATE  
LAYERS CATALOG

500 km

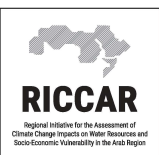
# Regional Hydrological Modelling



# RKH: Hydrology







# RKH: Vulnerability



Food and Agriculture Organization of the United Nations



RICCAR Regional Knowledge Hub Data Portal

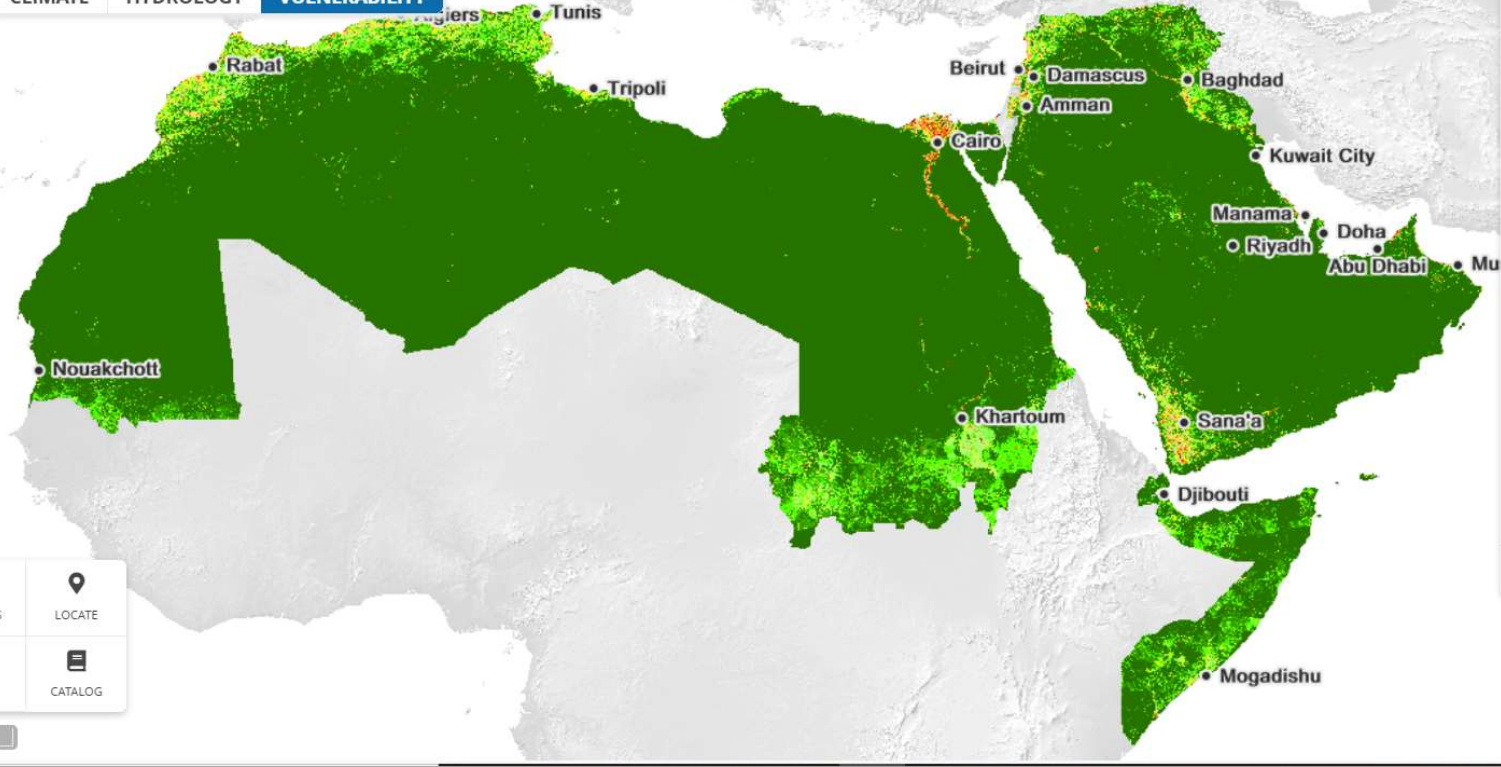
Map

RICCAR

My Profile ? About



CLIMATE HYDROLOGY **VULNERABILITY**



**LEGEND**

Population > Sensitivity > Potential Impact

Sensitivity - Population. [See more in Catalog](#)

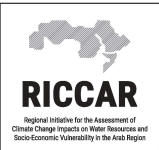
- Low Sensitivity
- High Sensitivity
- no data

More options

ANALYSIS LOCATE

LAYERS CATALOG

500 km



# Available vulnerability data

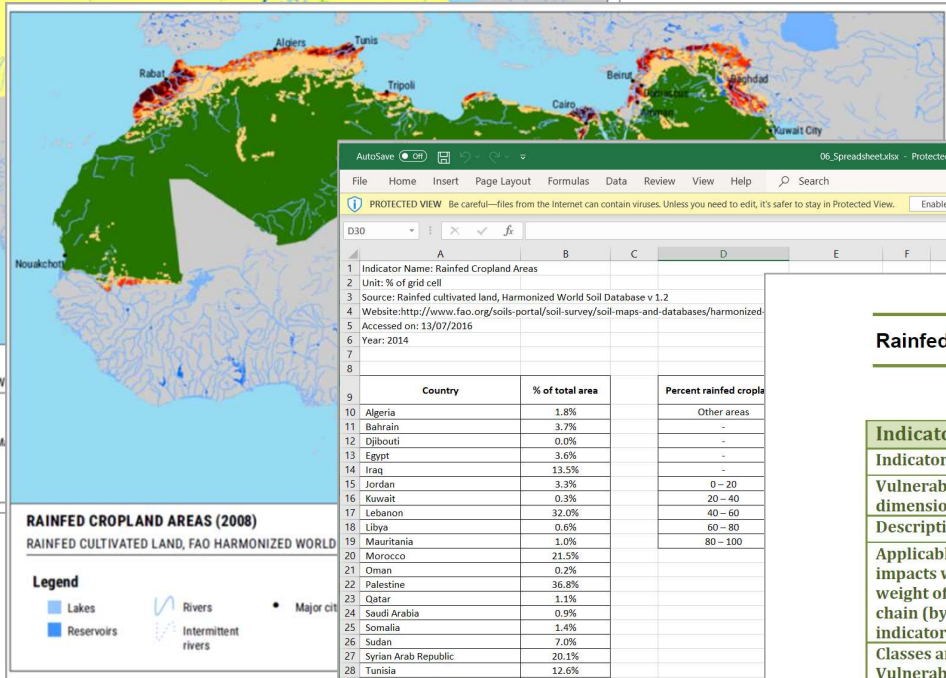
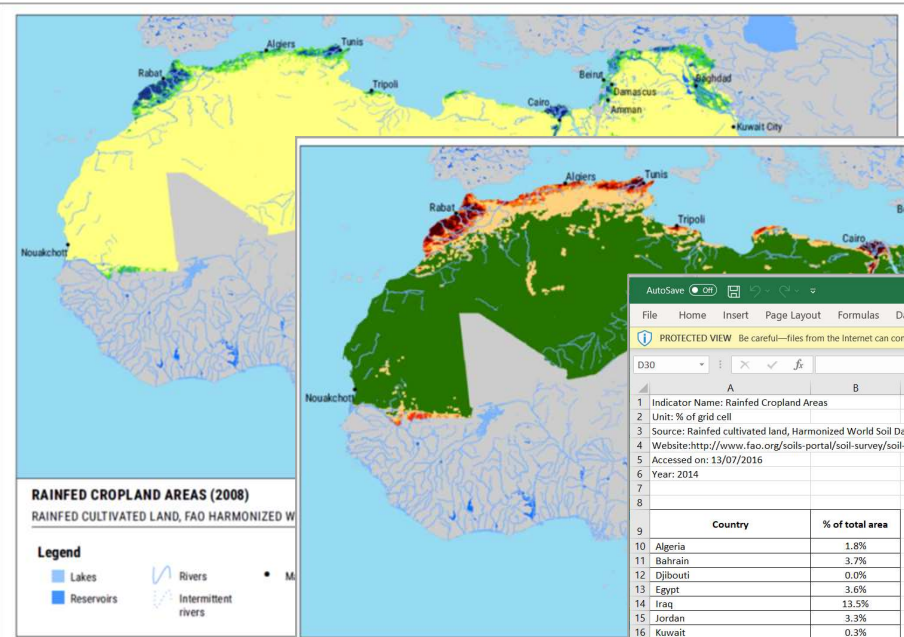
- Viewable map of Vulnerability Assessment indicators
- Viewable map of Vulnerability Assessment outputs
- Other data formats (from Data Catalog)

The image displays the RICCAR web application interface, which is a platform for accessing vulnerability data. The interface is divided into several sections:

- Map View:** The top section shows a map of the Arab region with a vulnerability assessment overlay. The map is color-coded, with green indicating low vulnerability and orange/red indicating higher vulnerability. The legend on the right indicates that the map shows 'Population > Sensitivity > Potential Impact'.
- Data Catalog:** The bottom section shows a list of data layers available for download or viewing on the map. The layers listed are: Soil Storage Capacity, Soil Erodibility, Rainfed Croplands, and Livestock Density. Each layer has a 'Download' button and a 'See on map' button.
- Downloads Panel:** A 'Downloads' panel is open, showing a list of available data files and formats, including: VA Classification\_Map.pdf, VA Classification\_Raster.zip, VA Classes.xlsx, VA Indicator\_Actual Values\_Raster.zip, VA Indicator\_Actual Values\_Map.pdf, Factsheet.pdf, Standardized GeoTIFF, Google Earth Engine Asset, OGC Link, and Regional Knowledge Platform. Each item has a 'Download' button and a 'See on map' button.

# Vulnerability data (from data catalog)

- Maps
  - Presentation ready
  - GIS format (raster)
- Spreadsheet
- Factsheet



06\_Spreadsheet.xlsx - Protected View - Excel

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

Country	% of total area	Percent rainfed cropland
Algeria	1.8%	Other areas
Bahrain	3.7%	-
Djibouti	0.0%	-
Egypt	3.6%	-
Iraq	13.5%	-
Jordan	3.3%	0 – 20
Kuwait	0.3%	20 – 40
Lebanon	32.0%	40 – 60
Libya	0.6%	60 – 80
Mauritania	1.0%	80 – 100
Morocco	21.5%	-
Oman	0.2%	-
Palestine	36.8%	-
Qatar	1.1%	-
Saudi Arabia	0.9%	-
Somalia	1.4%	-
Sudan	7.0%	-
Syrian Arab Republic	20.1%	-
Tunisia	12.6%	-
United Arab Emirates	3.9%	-
Yemen	0.9%	-

## Rainfed Cropland Areas

### Indicator fact sheet

Indicator	Rainfed cropland areas	
Vulnerability component and dimension	Sensitivity	Natural
Description	Rainfed cultivated land	
Applicable subsectors and impacts with corresponding weight of indicator in the impact chain (by dimension and indicator)	<b>Agriculture:</b> <i>Water available for crops</i>	0.26 0.34
	<b>People:</b> <i>Employment rate for the agricultural sector *</i>	0.25 0.36
Classes and ranges for the Vulnerability Assessment	Sensitivity 1 =	Other areas
	Sensitivity 2 =	-
	Sensitivity 3 =	-
	Sensitivity 4 =	-
	Sensitivity 5 =	-
	Sensitivity 6 =	0 – 20
	Sensitivity 7 =	20 – 40
	Sensitivity 8 =	40 – 60

# RKH Data Portal Demographics – Total users by month

Month/Year	Iraq	Iran	Jordan	Lebanon	Palestine	Syria	Turkey
Sep-19	-	-	1	3	-	-	-
Oct-19	-	-	1	13	-	-	-
Nov-19	-	-	7	4	2	-	-
Dec-19	-	-	3	7	-	-	-
Jan-20	4	-	2	16	-	-	-
Feb-20	-	-	2	3	-	-	-
Mar-20	2	-	1	5	-	-	-
Apr-20	1	-	-	6	-	-	2
May-20	-	-	-	1	-	-	1
Jun-20	4	-	3	11	2	8	-
Jul-20	4	1	8	11	2	4	-
Aug-20	1	-	3	8	-	4	1
Sep-20	-	-	-	6	1	1	1
Oct-20	1	-	1	13	4	-	-
Nov-20	-	-	-	15	3	1	-

# Request for tailored datasets



Regional Initiative for the Assessment of Climate Change Impacts on Water Resources and Socio-Economic Vulnerability in the Arab Region  
**Policy Guidelines for Data Dissemination**

## 1. Background

The Regional Initiative for the Assessment of Climate Change Impacts on Water Resources and Socio-Economic Vulnerability in the Arab Region (RICCAR) is a joint initiative of the United Nations and the League of Arab States launched in 2010. RICCAR is implemented under the auspices of the Arab Ministerial Water Council and further derives its mandate from resolutions adopted by the Council of Arab Ministers Responsible for the Environment, the Arab Permanent Committee for Meteorology and the ESCWA Ministerial Session. Additional information on RICCAR and its contributing partners is available at [www.riccar.org](http://www.riccar.org).

The RICCAR outputs and constituent databases are based on an integrated assessment methodology that includes:

- **Regional climate modelling (RCM)** outputs for the CORDEX-MENA Domain (Arab Domain), which is among the domains included in the Coordinated Regional Climate Downscaling Experiment (CORDEX) of the World Climate Research Programme.
- **Regional hydrological modelling (RHM)** outputs for the surface water basins in Arab States, including the land and water areas of surface water basins that are shared or transboundary in nature that include areas external to the Arab region.
- **Integrated vulnerability assessment (VA)** outputs for various sectors across the Arab region covering the 21 Arab States included in the MENA Domain.

The RICCAR assessment outputs are available in the [Arab Climate Change Assessment Report: Main Report](#) and its [Technical Annex](#).

## 2. Principles of data acquisition and access

2.1. Users may request bias-corrected regional climate modeling (RCM) and regional hydrological modeling (RHM) outputs for the Arab Domain. Available RCM and RHM output variables are described in the RICCAR Technical Note [Regional Climate Modelling and Regional Hydrological Modelling Applications in the Arab Region](#) prepared by SMHI.

- Temperature, precipitation, and hydrological outputs are available with daily frequency from 1950 to 2100 for RCP 4.5 and RCP 8.5 at the scale of 50x50 km. Extreme climate indices are available both annually and seasonally for the same period.
- RCM and RHM ensembles for the reference period, near-century, mid-century, and end-century are available for RCP 4.5 and RCP 8.5 at the scale of 50x50 km.

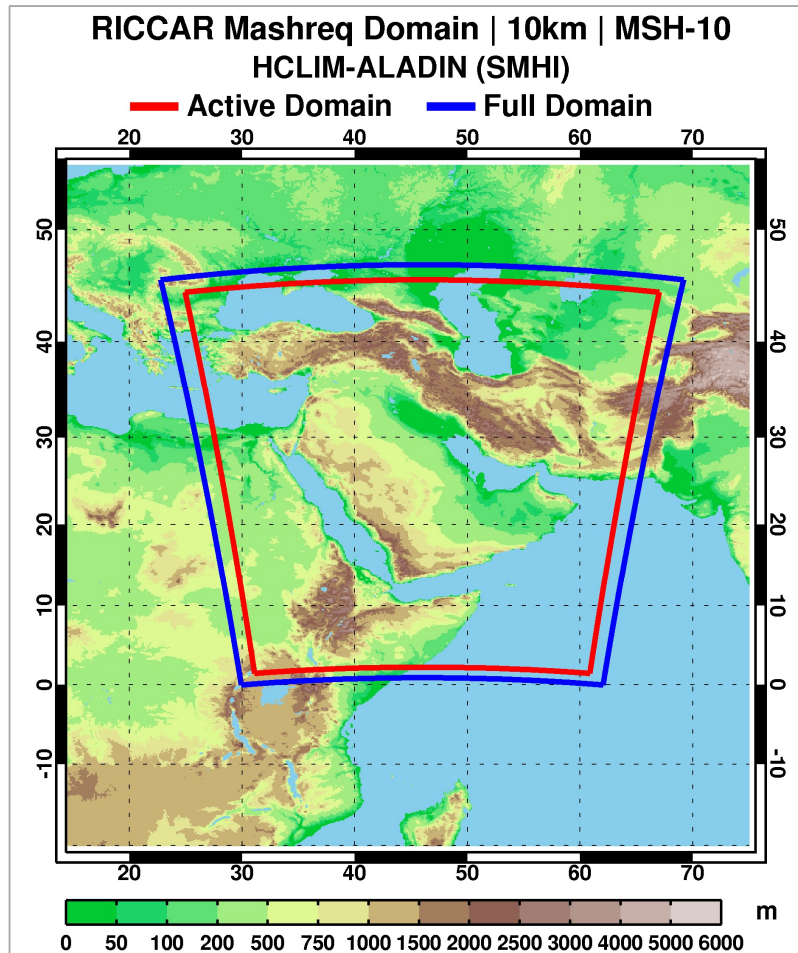
2.2. Users may also request socio-economic geospatial data used for the integrated vulnerability assessment (VA), described in the RICCAR Technical Note [Integrated Vulnerability Assessment: Arab Regional Application](#) prepared by UN-ESCWA, ACSAD and GIZ.

Data policy guidelines and request form available from [www.riccar.org](http://www.riccar.org) – Knowledge Resources

- ✓ Other extreme events indices
- ✓ Extracted RCM outputs to specific area of study
- ✓ Ensembles for other data periods
- ✓ Daily or monthly hydrological modelling outputs



# Coming soon: Mashreq Domain



- Six GCMs (2 completed: CNRM-ESM2 and EC-EARTH)
- SSP5-8.5 Scenario (based on CMIP6)
  - Shared Socioeconomic Pathways (SSPs) with RCPs
  - SSP5 assumes an energy intensive, fossil-based economy
- Historical period: 1961-2014
- Scenarios: 2015-2070

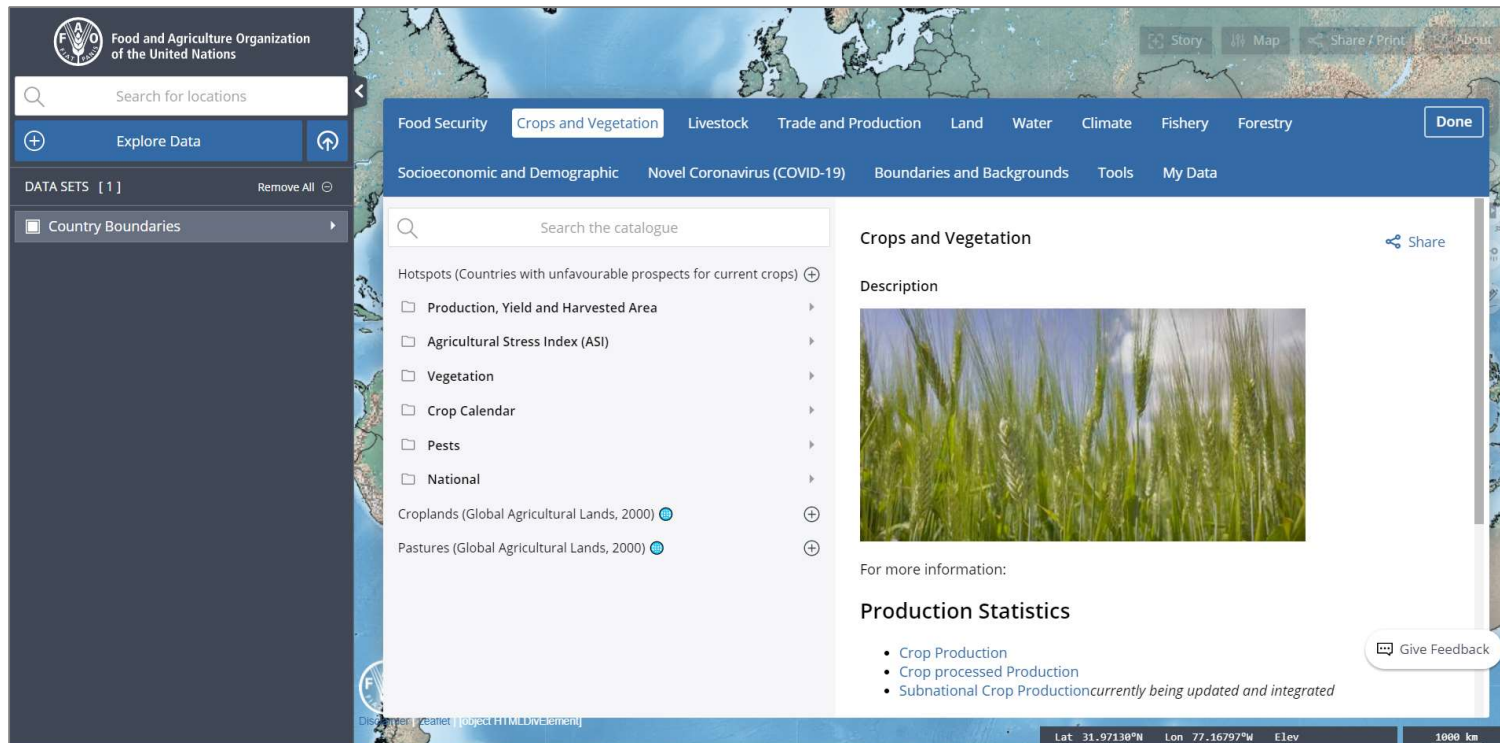
Variable name	Variable long name
tas	Near-surface air temperature
tasmax	Daily maximum near-surface air temperature
tasmin	Daily minimum near-surface air temperature
pr	Precipitation
ps	Surface air pressure
hurs	Near-surface relative humidity
sfcWind	Near-surface wind speed
sfcWindmax	Daily maximum near-surface wind speed
sund	Duration of sunshine
rsds	Surface downwelling shortwave radiation
evspsbl	Evaporation
snw	Surface snow amount
uas	Eastward near-surface wind
vas	Northward near-surface wind
wsgsmax	Daily maximum near-surface wind gust
snd	Snow depth

} Bias-corrected

Note that uncorrected outputs (like the ones listed for the Mashreq domain) are available from the ESGF for the entire Arab domain



# Coming soon: Migrate to Hand-in-Hand Platform



The screenshot displays the RICCAR web application interface. At the top left is the FAO logo and the text "Food and Agriculture Organization of the United Nations". Below this is a search bar for locations and an "Explore Data" button. A sidebar on the left shows "DATA SETS [ 1 ]" with a "Remove All" option and a list of categories including "Country Boundaries". The main content area features a map of the Arab region with a blue navigation bar. The navigation bar includes tabs for "Food Security", "Crops and Vegetation" (selected), "Livestock", "Trade and Production", "Land", "Water", "Climate", "Fishery", and "Forestry". Below the navigation bar is a secondary menu with "Socioeconomic and Demographic", "Novel Coronavirus (COVID-19)", "Boundaries and Backgrounds", "Tools", and "My Data". A "Done" button is located on the right side of the navigation bar. The main content area is titled "Crops and Vegetation" and includes a "Share" button. It features a "Description" section with an image of green crops and a "Production Statistics" section with a list of items: "Crop Production", "Crop processed Production", and "Subnational Crop Production currently being updated and integrated". A "Give Feedback" button is located at the bottom right of the content area. The bottom of the interface shows a status bar with coordinates (Lat: 31.97138°N, Lon: 77.16797°E), elevation, and a scale of 1000 km.

- Latest generation geospatial platform
- Easier site navigation
- Compare RICCAR data to other geospatial datasets



Shared Prosperity **Dignified Life**



Thank you

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