

Arab Initiative for Mobilizing Climate Finance for Water Introduction and Overview

GCF Regional Dialogue with Middle East and North Africa
27 June 2024



Arab Initiative for Mobilizing Climate Finance for Water

- ESCWA and the League of Arab States jointly launched the **Arab Initiative for Mobilizing Climate Finance for Water** at the United Nations 2023 Water Conference, as a Water Action Agenda commitment of the Water Action Decade 2018-2028.



The core partners of the initiative are:

- League of Arab States - the Technical Secretariat of the Arab Ministerial Water Council and the Technical Secretariat of the Council of Arab Ministers Responsible for the Environment
- ESCWA,
- IsDB,
- GCF,
- FAO,
- Government of Sweden.

and in collaboration with:

- Arab Centre for the Study of Arid and Drylands (ACSAD)
- Arab Fund for Economic and Social Development (AFSED)

<https://sdgs.un.org/partnerships/arab-initiative-mobilizing-climate-finance-water-aim-climate-finance-water>



Arab Initiative for Mobilizing Climate Finance for Water

To increase access to climate finance for Arab States, the initiative:

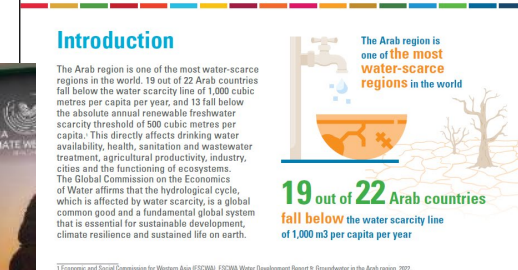
- Promotes understanding and awareness on the importance of climate-resilient investments in the water sector
- Supports capacity development efforts to strengthen the **climate rationale for water projects** and to **develop bankable project pipelines**.

It also builds upon:

- The knowledge base developed under the collaborative Regional Initiative for the Assessment of Climate Change Impacts on Water Resources and Socio-Economic Vulnerability in the Arab Region (**RICCAR**) that is coordinated by ESCWA, and
- the Water Scarcity Initiative coordinated by FAO,
- Both supported by the Government of Sweden.

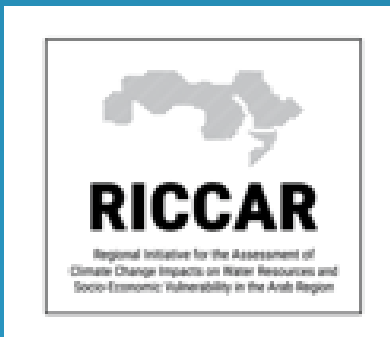
Under the initiative, the following activities are being implemented:

1. Climate finance policy brief focused on the water sector (2023)
2. The Arab Forum for Mobilizing Climate Finance for Water, held during MENA Climate Week (10 October 2023)
3. Workshop on costing adaptation (2024-2025)
4. Tailored training and technical support on the preparation of evidence-based project pipelines on climate finance for water, including national, regional and multi-country projects (2024-2025).



No part of this presentation in all its property may be

Climate Rational for Water Projects: Overview on Regional Initiative for the Assessment of Climate Change Impacts on Water Resources and Socio-Economic Vulnerability in the Arab Region (RICCAR)



RICCAR Objective and Purpose

Objective: To assess the impact of climate change on freshwater resources in the Arab Region through a consultative regional initiative that scientifically identifies the socio-economic and environmental vulnerability caused by climate change impacts on water resources based on regional specificities.

Purpose: To provide a common platform for assessing, addressing and informing response to climate change impacts on freshwater resources in the Arab region by serving as the basis for dialogue, priority setting and policy formulation on climate change at the regional level.

Assessment

Adaptation

Mitigation

Negotiations



Shared Prosperity Dignified Life



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



KNOWLEDGE RESOURCES

The central aim of this Regional Knowledge Hub is to provide access to information that can facilitate cooperation, coordination, dialogue and exchange among Arab States, organizations

DATA PORTAL

The data portal allows interactive visualization of RICCAR maps and provides access to RICCAR data repository.



KNOWLEDGE NODES

Innovation of National, Regional and International Nodes for the Transfer and Sharing of Knowledge

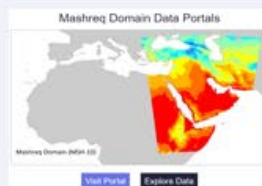
PARTNERSHIPS

Strategic partnerships for supporting strategic objectives to implement climate change adaptation and mitigation programs at the national and regional levels

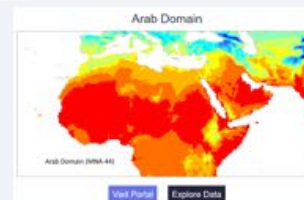


Request Data

DATA PORTALS
www.riccar.org



Mashreq Domain

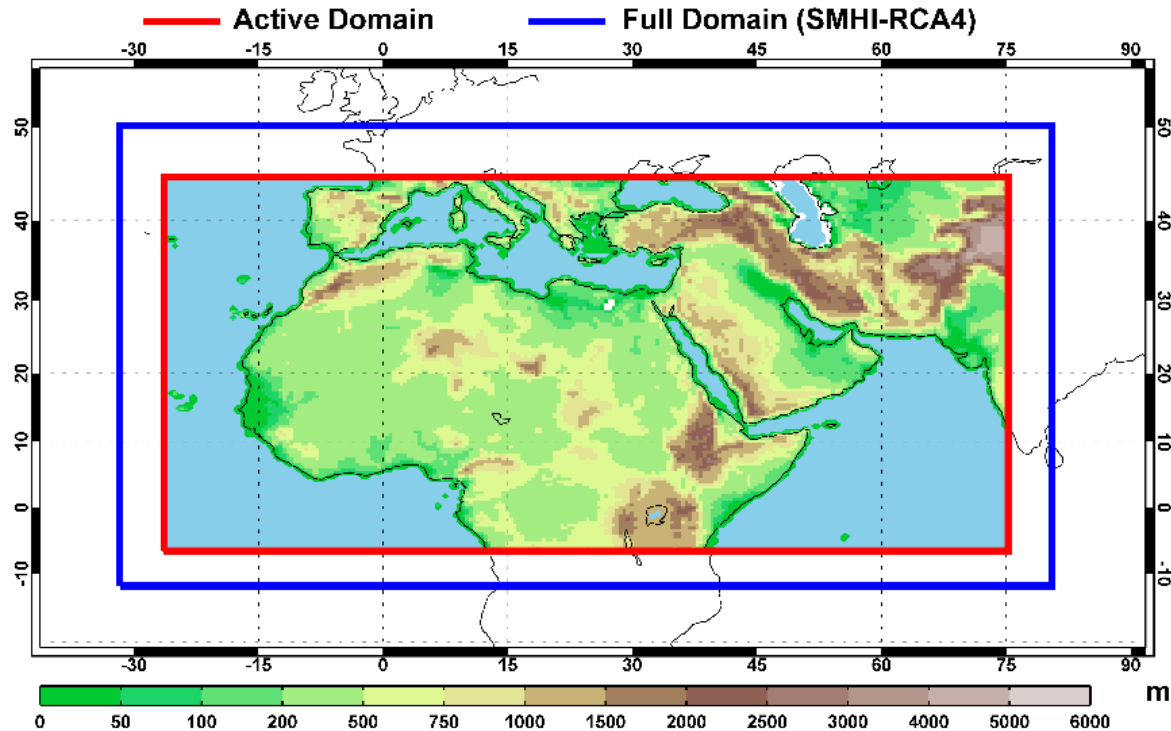


Arab Domain



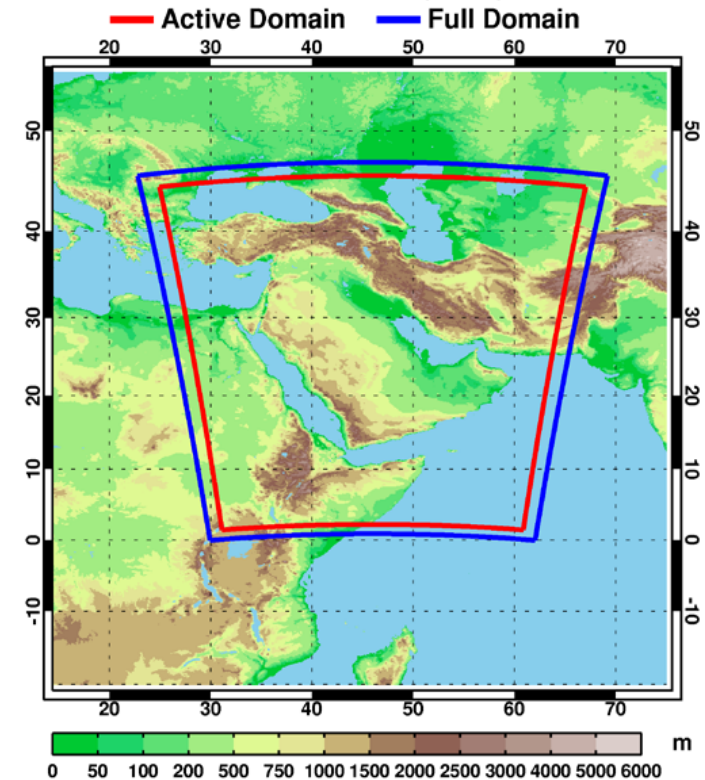
RICCAR Regional Domains

CORDEX-MENA/Arab Domain | 0.44° (50 km)



- CMIP5 Models
- RCP Scenarios (RCP4.5 and RCP8.5)
- 50 km resolution
- Bias-adjusted outputs
- Domain vetted by the WCRP Coordinated Regional Climate Downscaling Experiment (CORDEX)
- Time period: 1986-2100

RICCAR Mashreq Domain | 10km | MSH-10
HCLIM-ALADIN (SMHI)

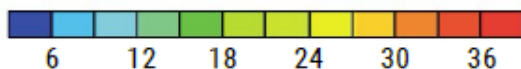
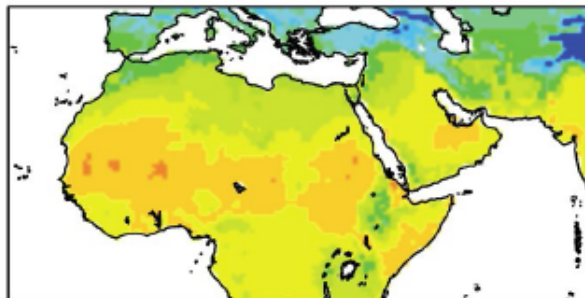


- CMIP6 Models
- SSP Scenarios (SSP2-4.5 and SSP5-8.5)
- 10 km resolution
- Bias-adjusted output
- Time period: 1995-2060

Average Temperature projected to increase 2.6°C by mid-century and up to 4.8°C by end-century compared to reference period (1986-2005) in region

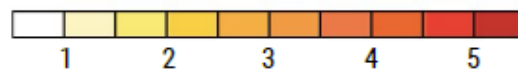
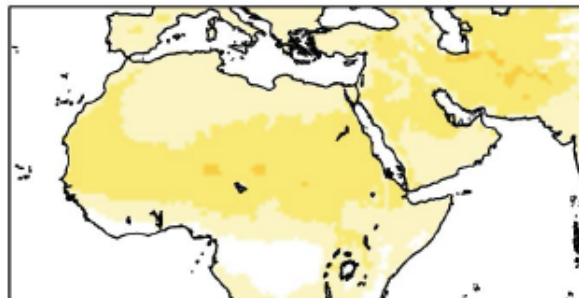
RCP 4.5

1986-2005



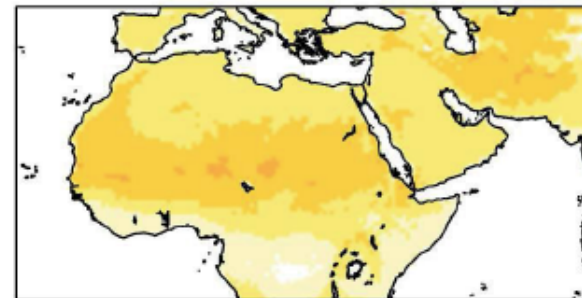
Reference Period Temperature
(° C)

2046-2065



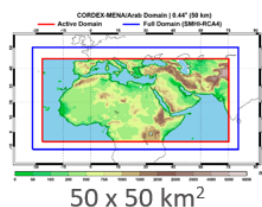
Change in Temperature
(° C)

2081-2100



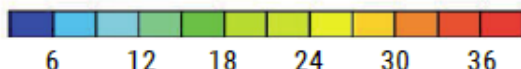
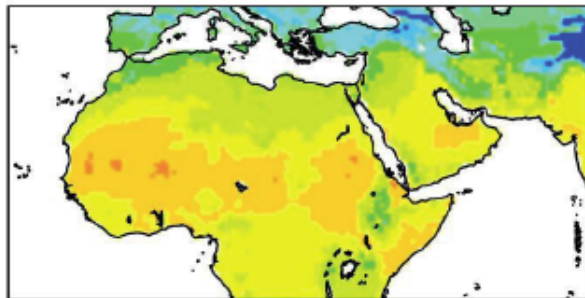
Average
Temperature in
the region is
already
0.8°C higher
than the
reference period
at the **start of**
this century

Moderate
Emissions
Reduction
Scenario

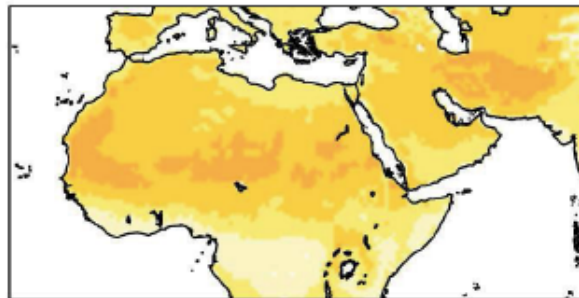


RCP 8.5

1986-2005

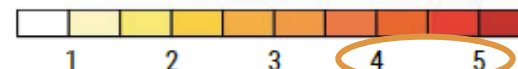
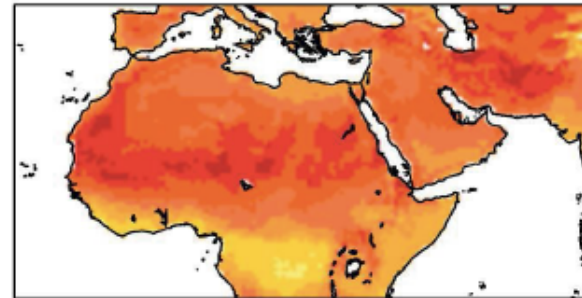


2046-2065



Change in Temperature
(° C)

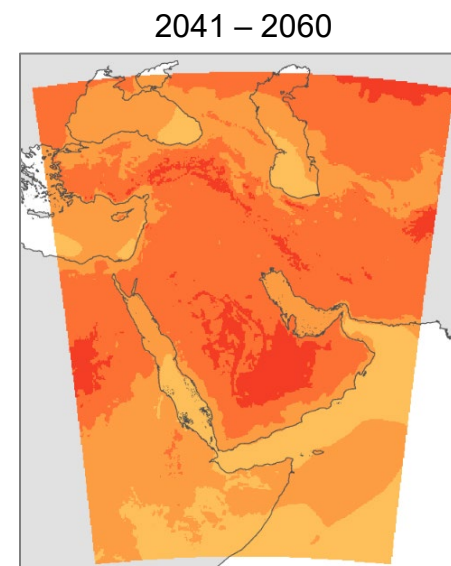
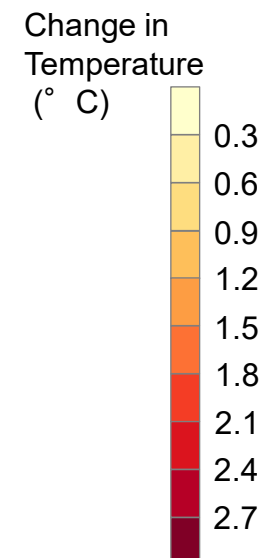
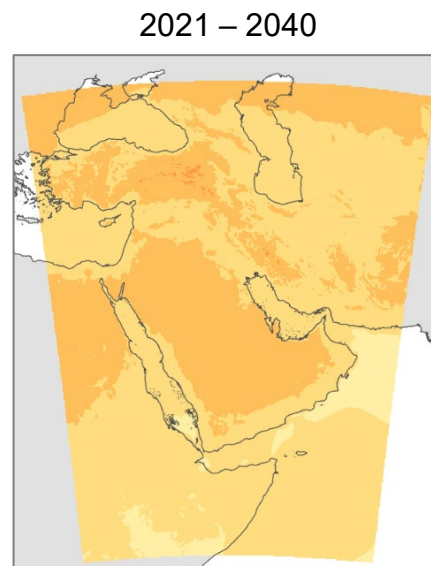
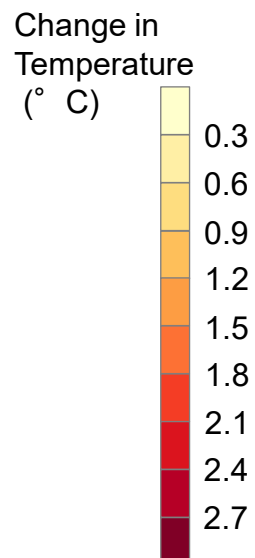
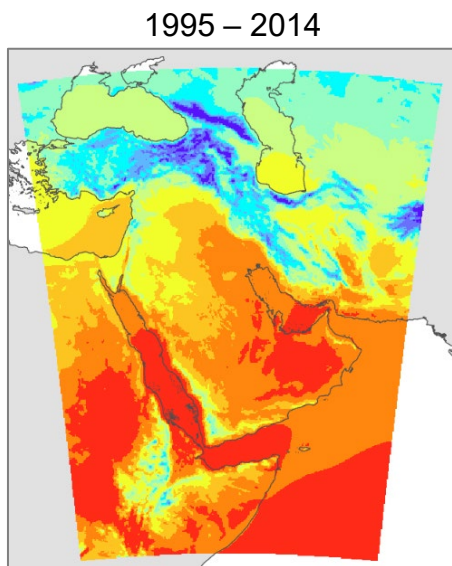
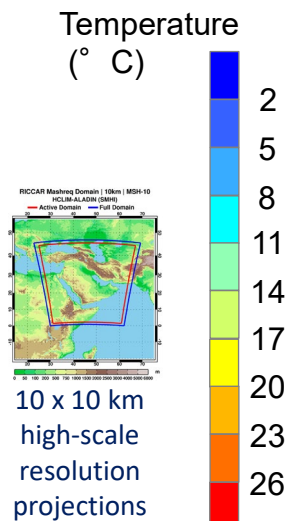
2081-2100



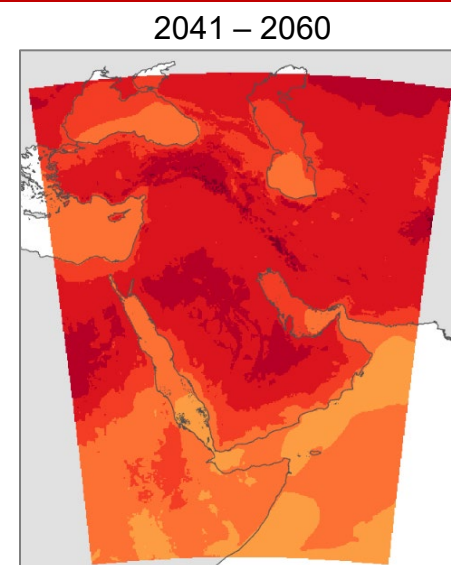
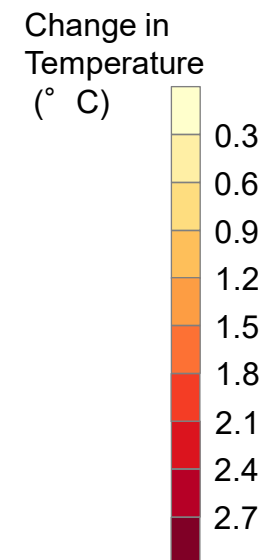
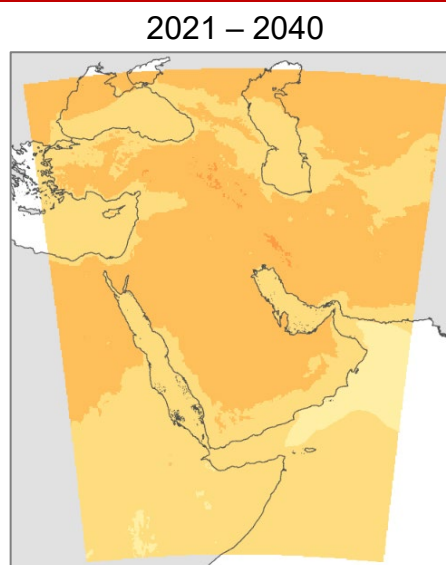
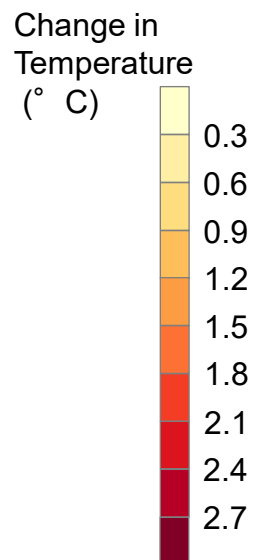
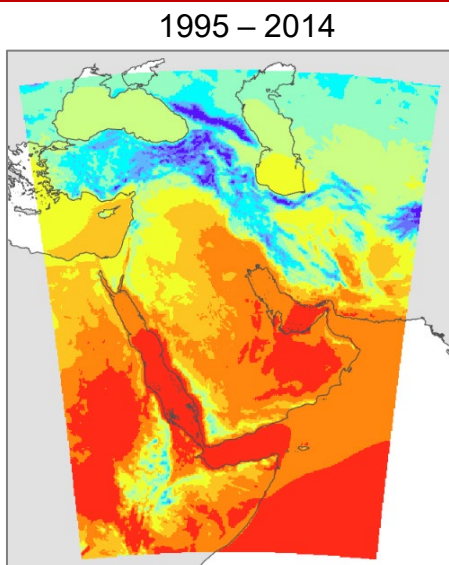
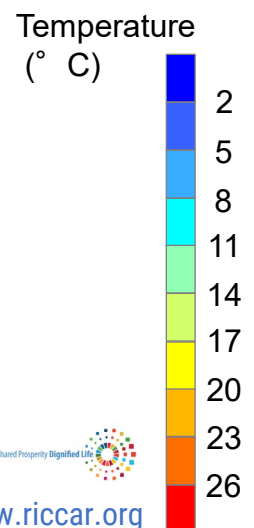
Business-
as-Usual
Emissions
Scenario

Projected Change in Annual Temperature – Mashreq Domain

SSP2-4.5



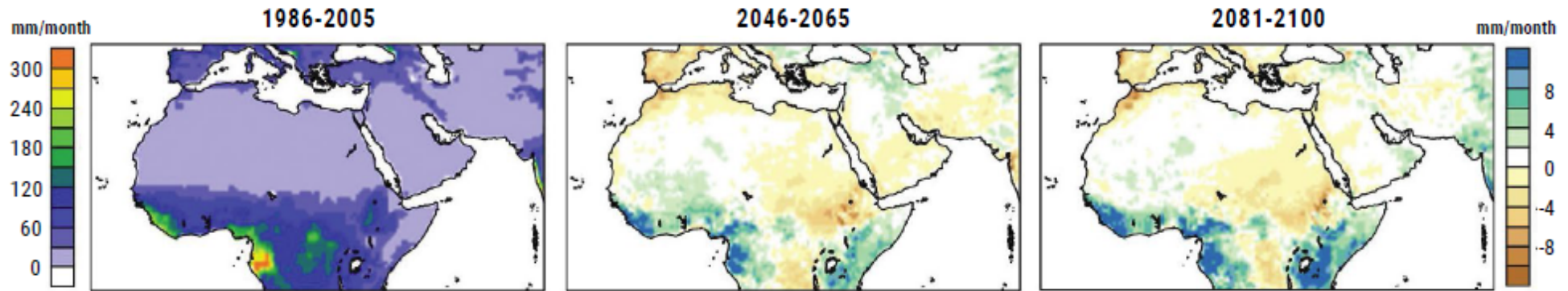
SSP5-8.5



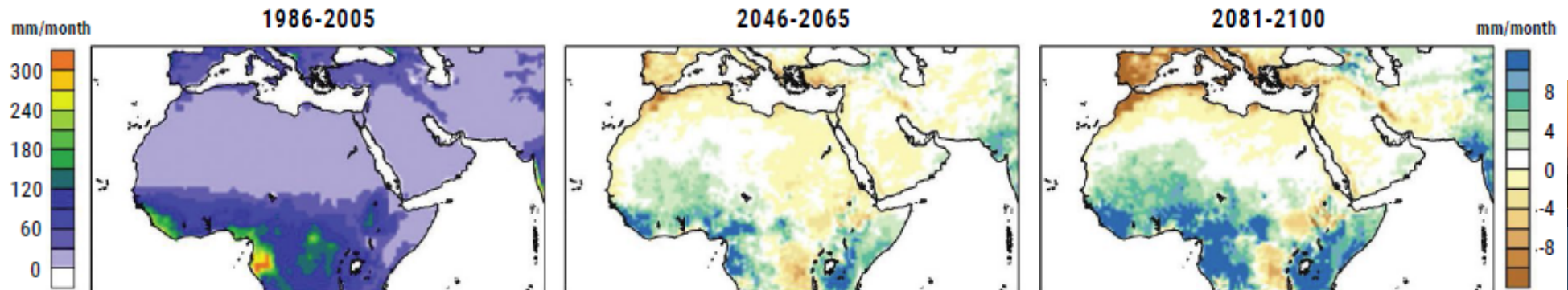
Precipitation Projected to be more Variable

Precipitation trends are largely decreasing across the region, though limited areas expected to exhibit an increase in the intensity and volume of precipitation

RCP 4.5



RCP 8.5



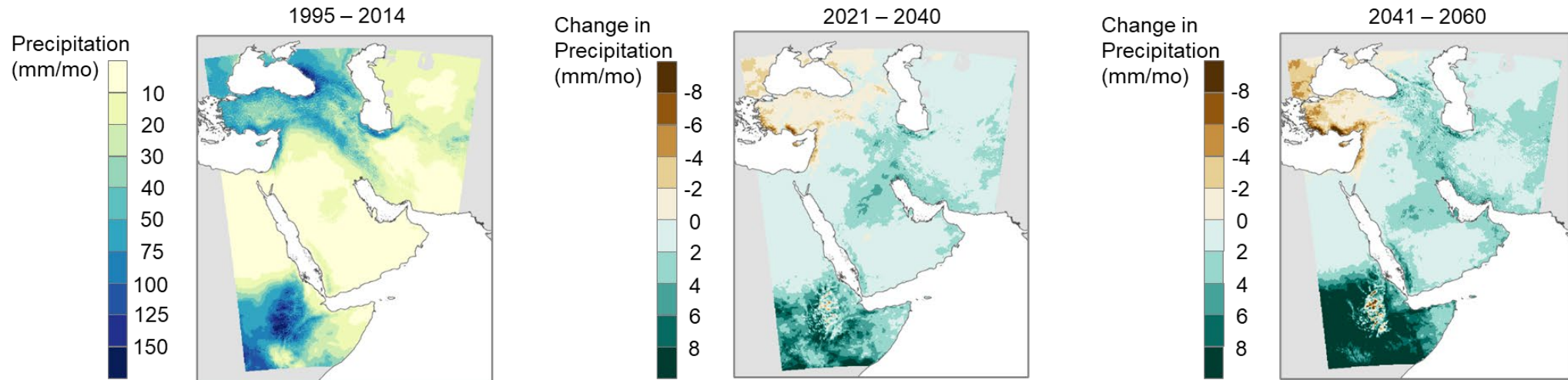
Moderate
Climate
Scenario

Business-as-Usual
Climate Scenario

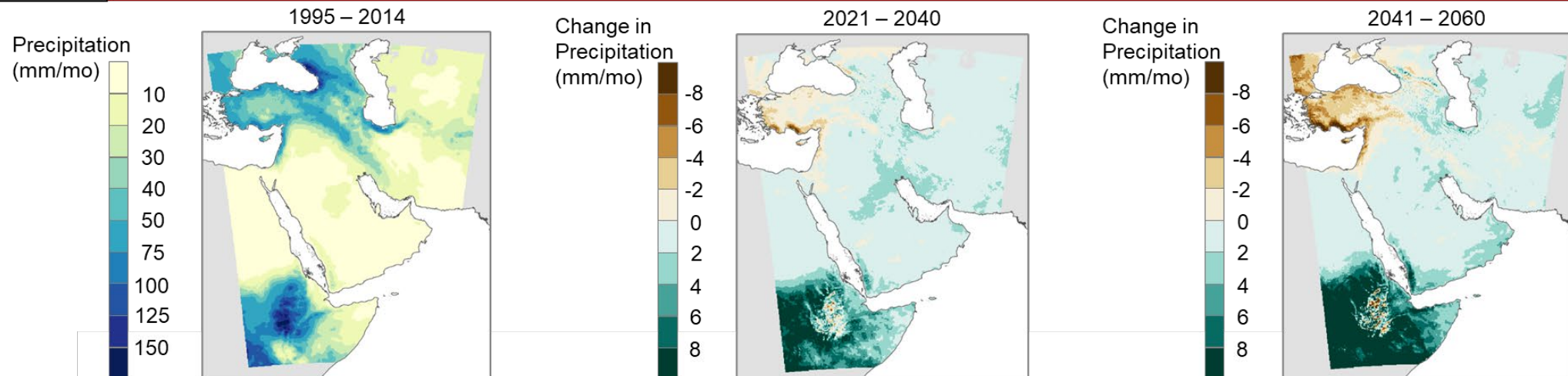


Projected Change in Annual Precipitation – Mashreq Domain

SSP2-4.5



SSP5-8.5



Although overall precipitation volume exhibits little projected change, increased interannual and seasonal variability is expected

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

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DATA PORTAL

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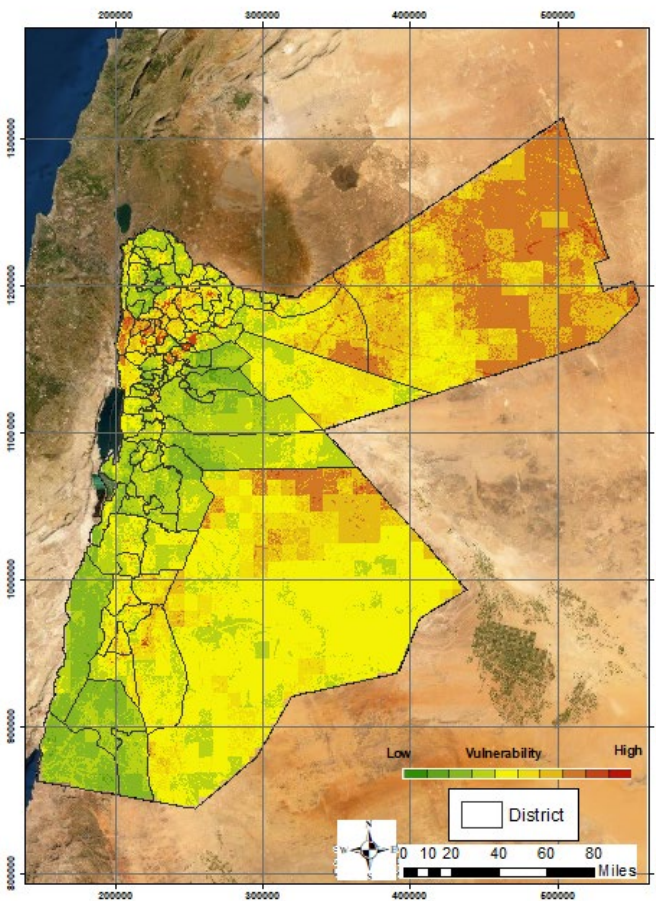
Innovation of National, Regional and International Nodes for the Transfer and Sharing of Knowledge

PARTNERSHIPS

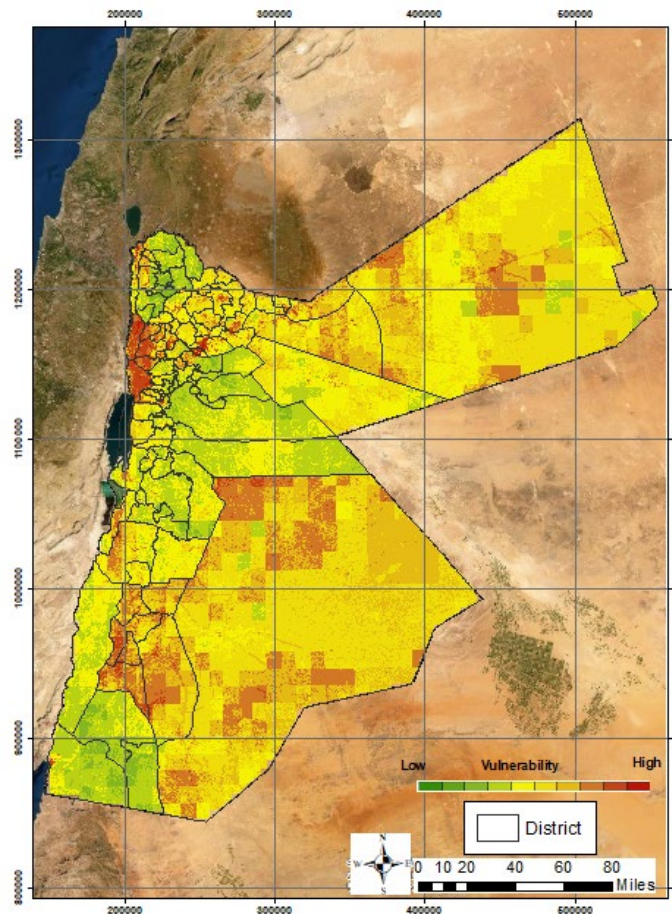
Strategic partnerships for supporting strategic objectives to implement climate change adaptation and mitigation programs at the national and regional levels

Vulnerability of the Water Sector to Climate Change in Jordan

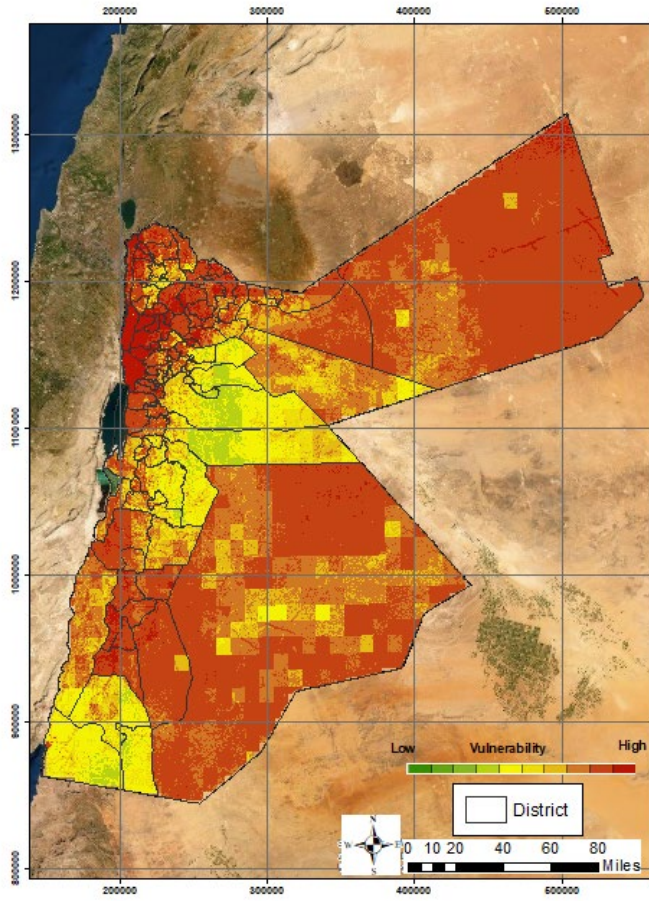
Vulnerability at reference period
1995-2014



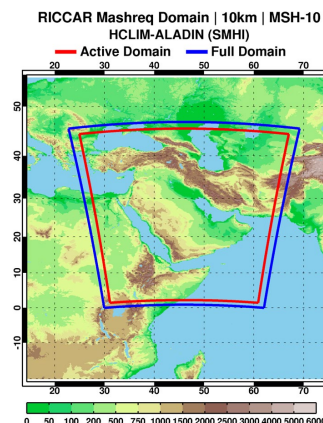
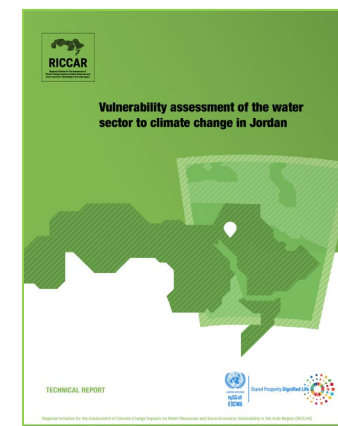
Vulnerability at near-century
2021-2040



Vulnerability at mid-century
2041-2060



Based on SSP5-8.5



Vulnerability Assessments help to identify priority needs and where to target investments & assistance, including in Climate/SDG Debt Swap support that ESCWA is providing to Jordan

<https://www.unescwa.org/publications/vulnerability-assessment-water-sector-climate-change-jordan>

Arab Groundwater Knowledge Platform

AGWKP
Arab Groundwater
Knowledge Platform

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Arab Groundwater Knowledge Platform

The Arab Groundwater Knowledge Platform responds to the need to establish a centralized data centre focused on groundwater resources.

Donor



Technical partner



<https://agwkp.unescwa.org/>



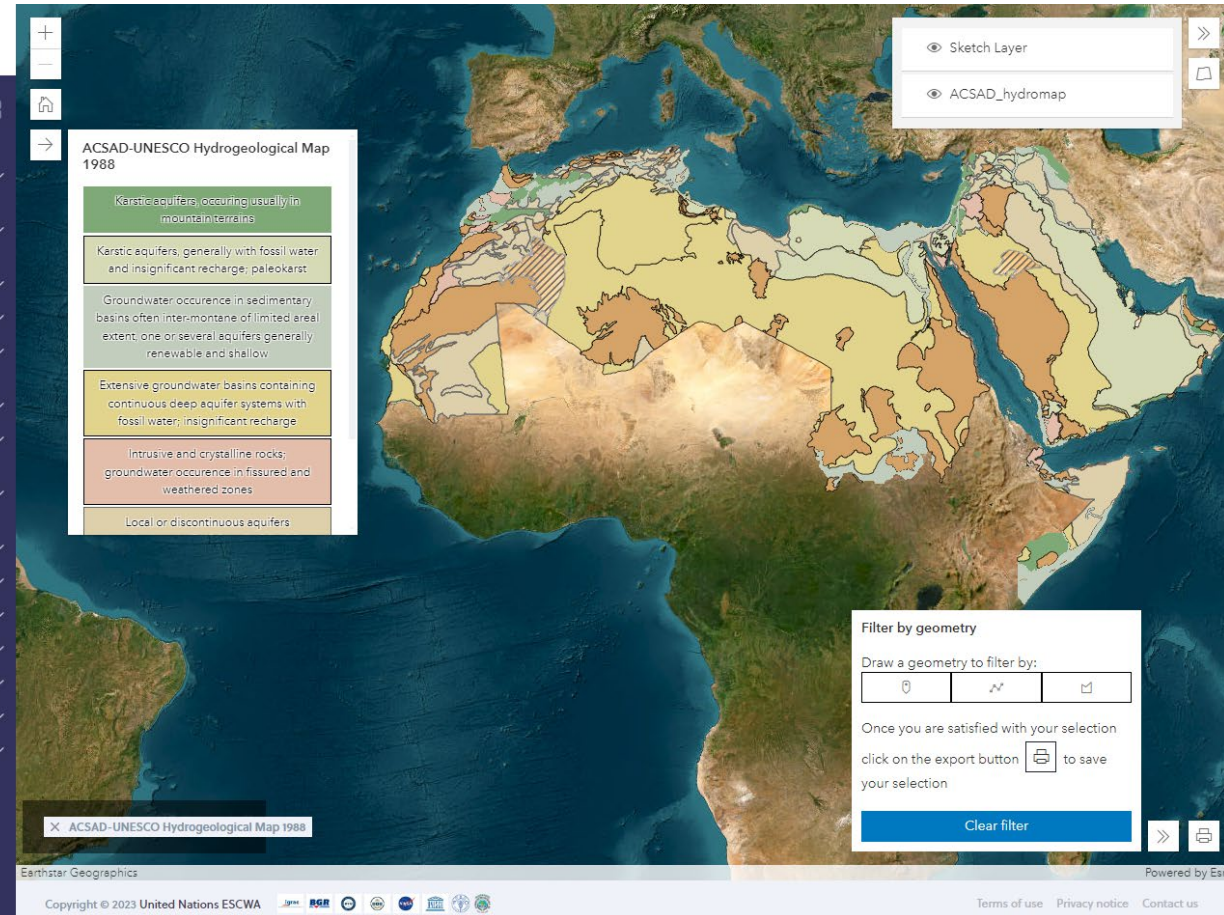
Shared Prosperity Dignified Life



AGWKP
Arab Groundwater
Knowledge Platform

BROWSE THEMES

- ACSAD-UNESCO Hydrogeological Map 1988
- Shared Water Resources in Western Asia
- Transboundary aquifers
- Groundwater quality
- Area Equipped for Irrigation from Groundwater
- Managed aquifer recharge (MAR)
- Groundwater stress in major aquifers
- Groundwater resources of the world (WHYMAP)
- Africa Groundwater Atlas
- Land Cover
- Population
- National Maps
- RICCAR Climate Projections
- Climate
- GRACE Mission Subset



Arab Initiative for Mobilizing Climate Finance for Water

Way forward

Results of this session will be reported to the:

- Arab Ministerial Water Council in 2024
- ESCWA Water Resource Committee in 2025
- Water Action Decade commitments global website



Inform:

- Global and regional preparations for the **UN 2026 Water Conference**

Focus with initiative partners on remining activities:

- Organization of workshop on costing adaptation (2024)
- Demand-driven tailored training and technical support on the preparation of evidence-based project pipelines on climate finance for water, including national, regional and multi-country projects (2024-2025).



<https://sdgs.un.org/partnerships/arab-initiative-mobilizing-climate-finance-water-aim-climate-finance-water>



Shared Prosperity **Dignified Life**



Thank you

Ziad Khayat

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Climate Change and Natural Resource Sustainability

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