

RICCAR

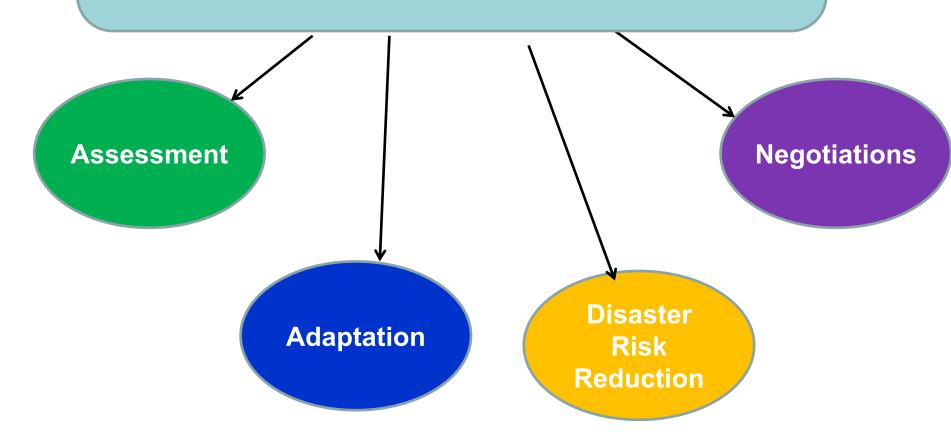


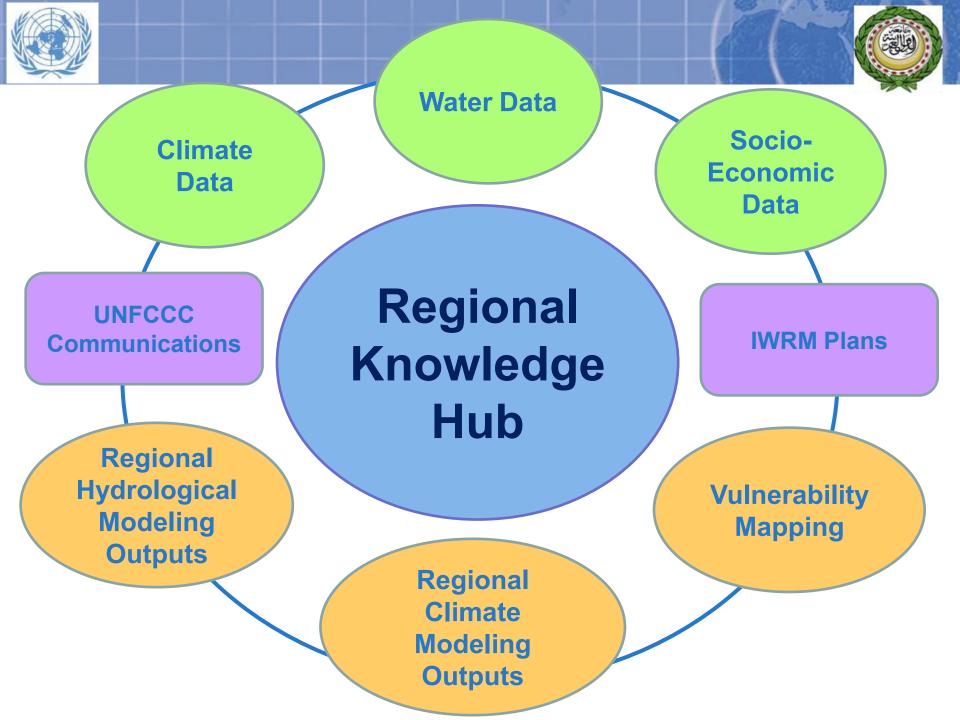
Regional Mechanisms for Supporting Climate Change Negotiations, Assessment, Adaptation and Disaster Risk Reduction

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RICCAR: Knowledge & Policy Formulation Tools

Regional Initiative for the Assessment of the Impact of Climate Change on Water Resources and Socio-Economic Vulnerability in the Arab Region (RICCAR)





RICCAR Regional Knowledge Hub



Link to Proposed LAS Knowledge

Networks

Arab Ministerial Water Council (AMWC)



Regional **Knowledge Hub**

RKH Advisors (GIZ)

ACSAD-ESCWA Coordinating Secretariat FAO FENIX Platform

Structure Approved by **AMWC** (Doha, May 2014)

Regional Knowledge Hub Network

Agricultural Node (FAO)

Thematic Nodes

Water & **Climate** Node

Arab Climate Outlook Forum

Purpose

Scoping Meeting hosted by Jordan (Amman, Nov 2014)

- Regular seasonal forecast products for the Arab region.
- Regional assessments of climate extremes based on national inputs.
- Climate/climate change monitoring and assessment
- Regional assessment of climate change scenarios and their implications.
- Improved and accurate climate data and enhanced monitoring capacity.
- Provision of regional climate information to help responding to user needs (hydrology, agriculture, health, etc.).
- Regular capacity development efforts and promotion of common approaches for climate services by Arab countries
- Better user awareness and sustainable platform for user interface.

Governance

- Approved by Arab Permanent Committee for Meteorology (Jeddah, 25-30 March 2015)
- UAE Met Office offered to host ArabCOF, with budgetary review currently underway with LAS Technical Secretariat and ESCWA.



Regional Knowledge Hub Schematic



Arab Ministerial Water Council (AMWC)

Arab Permanent
Committee on
Meteorology (APCM)

Regional Knowledge Hub

Arab Regional Knowledge Hub for Climate and Water (mechanism)

Regional Climate Outlook Forum

Arab Climate Outlook Forum (annual meetings)

RKH Advisors UN-LAS
Coordinating Secretariat

UAE Met Service

Knowledge Hub Network

Agriculture (FAO)

Adatpation (tbc)

Negotiations (tbc)

Seasonal Forecasts

Climate Prediction/ Projection

Developing the Capacities of the Arab Countries for Climate Change Adaptation by Applying IWRM Tools

Impact Assessment

Climate Change Adaptation

RICCAR



UNDA on CC Adaptation (IWRM)

Adaptation to Climate Change in the Water Sector in the MENA Region (ACCWaM)

IWRN-CCA Training Manual (5 Modules):

5 training modules on

- 1) Agriculture (ACSAD/GIZ),
- 2) Economic DV (ESCWA),
- 3) The environment (UNEP/ROWA),
- Health (WHO/CEHA) and
- Human settlements/WSS (ACWUA)

Arab Strategy for Disaster Risk Reduction Action Plan: Linkage to RICCAR

Strategic priority 1: Strengthened commitment for comprehensive disaster risk reduction across sectors

- Enhance scientific capacities and stakeholder involvement and assess eco-system and <u>water</u> <u>resources risks and forecast.</u>
- Develop national and regional adaptation and risk reduction strategies in the eco-system and <u>water</u> <u>sector based on regional impact and vulnerability</u> <u>assessment</u> and support their implementation.
- Develop region-specific guidelines and tools and provide technical support to <u>integrate climate</u> <u>change adaptation, DRR</u> and livelihood activities at national and local level

Arab Strategy for Disaster Risk Reduction Action Plan: Linkage to RICCAR

Strategic priority 2: Better identified, assessed and monitored disaster risks with early warning expanded

- Develop national and regional adaptation and risk reduction strategies in the ecosystem and water sector based on <u>regional</u> <u>impact and vulnerability assessment and</u> <u>support their implementation.</u>
- Assess regional impacts (e.g. floods, droughts, etc.). in terms of water resources and related extreme events

Arab Strategy for Disaster Risk Reduction Action Plan: Linkage to RICCAR

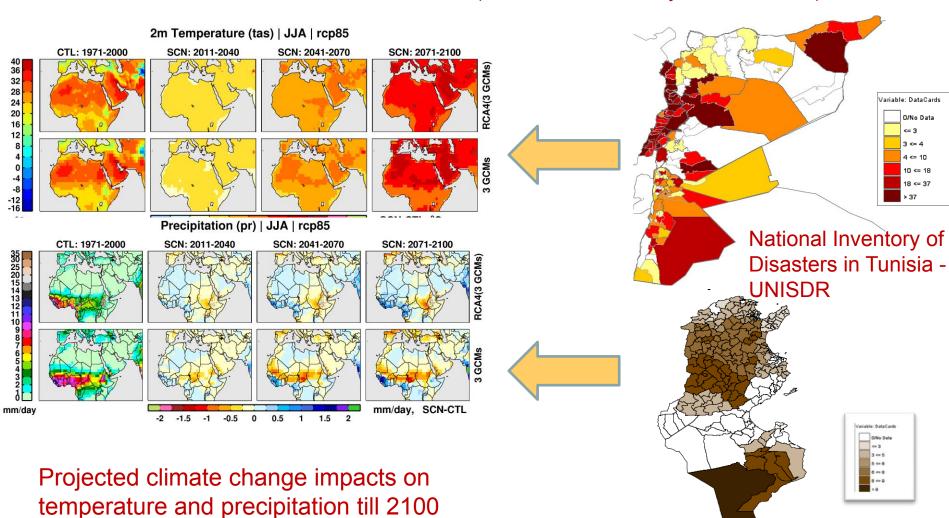
- UNISDR supports selected Arab Countries through RICCAR to <u>build **Disaster Loss Databases (DLDB)**.</u>
- These historical records can be used to validate the projected climate indices on extreme events (e.g. flood, drought, sandstorms, heat waves, etc.) as well as the developed vulnerability maps
- The projected climate variables/extremes can be used in developing <u>short and long term climate change</u> <u>adaptation strategies</u> that will enable managing risks and enhancing resilience.
- RICCAR provided the tools that can be utilized to link the <u>climate risk management to disaster risk reduction</u> (DRR) strategies.

May 1**1**1, 2011

e.g. Use of DLDB to Validate RICCAR Projected Climate for Development of National CCA and DRR Strategies

Frequency of climate related disasters (Lebanon, Jordan, Syria, 1980-2011) - UNISDR

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using RCM in RICCAR

Projected Extreme Climate Indices in RICCAR

	Index	Definition	Unit
SU	Summer days	Annual number of days when Tmax >	days
		25°C	
TR	Tropical nights	Annual number of days when Tmin <	days
		20 °C	
CSDI	Cold spell duration indicator	Annual number of days with at least 6	days
		consecutive days when Tmin < 10 th	
		percentile	
WSDI	Warm spell duration indicator	Annual number of days with at least 6	days
		consecutive days when Tmax > 90 th	
		percentile	
CWD	Maximum length of wet spell	Maximum annual number of	days
		consecutive wet days (i.e. when	
		precipitation ≥ 1.0 mm)	
CDD	Maximum length of dry spell	Maximum annual number of	days
		consecutive dry days (i.e. when	
		precipitation < 1.0 mm)	
R10mm	Heavy precipitation days	Annual number of days when	days
		precipitation ≥ 10 mm)	

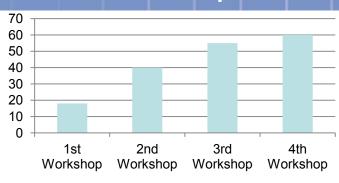
Capacity Development for Climate Change Negotiations

ESCWA organized in coordination with the League of Arab States (LAS) four workshops on capacity development for climate change negotiation, based on resolutions adopted by of the Council of Arab Ministers Responsible for the Environment (CAMRE)

Objectives

- Raising the awareness of new Arab negotiators on climate change negotiations;
- Identifying joint opportunities and challenges <u>in</u>
 <u>preparing for the drafting of the new climate</u>
 <u>change agreement at the UNFCCC/COP-21</u>;
- Ensuring an ongoing <u>dialogue on climate change</u> <u>between Arab States</u>;
- Identifying the necessary <u>factors for successful</u> <u>negotiations</u> and building partnerships with non-Arab actors to achieve common goals;

No. of Participants







<u>1- Amman,</u> <u>Jordan 22 - 24</u> <u>October 2013</u> 2- Amman, Jiordan, 26-28 May 2014 3- Kuwait 11 -3 November 2014)

4- Doha, Qatar, 19-21 May 2015.

- In coordination with LAS
- It aimed to prepare for the UNFCCC/COP
 19, held in Warsaw, from

 11 22

 November

 2013.
- In coordination with LAS
- To prepare for the 14th session of the subsidiary bodies of UNFCCC, Bonn (4-15 June 2014) and for the Climate Summit, held in New York, on 23 September 2014.
- In collaboration with the LAS and the Environment Public Authority of Kuwait.
- It aimed to prepare for the <u>UNFCCC/COP-20</u> <u>held in Lima</u> (1 to 12 December

2014).

- In cooperation with LAS and the Ministry of Foreign Affairs in Qatar
- to prepare for preparatory meeting in Bonn during June 2015 and the COP-21 in Paris, France end of 2015

RICCAR Partners

Implementing Partners











LAS





United Nations Educational, Scientific and Cultural Organization Cairo Office



Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH





UNU-INWEH



Donors





SWEDISH INTERNATIONAL DEVELOPMENT COOPERATION AGENCY

Contributing Research Institutessupporting Regional Climate Modelling

- Center of Excellence for Climate Change Research/ King Abdulaziz University (CECCR/KAU) - KSA
- King Abdullah University of Science and Technology (KAUST) - KSA
- Climate Services Center (CSC) Germany

Thank you!

www.escwa.un.org/RICCAR