



# SEWA RCC Information Session with SADC-CSC

# **SADC-RCC** AND **SARCOF** PROCESS

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SADC CLIMATE SERVICES CENTRE



## **OUTLINE**



- I. SADC Climate Services Centre
- II. Regional Climate Outlook Forum (SARCOF)
- III. Functions of SADC-CSC as a WMO RCC
- IV. Benefits of the SEWA Project for the SADC Region







### **1 SADC Climate Services Centre**

### 1.1 Mission

The SADC Climate Services Centre (SADC-CSC) has the principal goal to more efficiently and effectively respond to the rapidly increasing demand for easily accessible and timely scientific data and information about climate that helps people make informed decisions in their livelihood, businesses, and communities.



























### 1.2 Vision:



Enable users to manage better the risks and opportunities arising from climate variability and change. Using science-based climate information and users needs driven.

- To be an authoritative source of climate information and services for the SADC Region;
- Build upon, complement and add value to current capabilities in Southern Africa; and
- Provide a 'one-stop-shop' access to quality assured climate information, tools and good practices in the region.

# 1.3 OPERATIONAL ACTIVITIES OF SADC CSC





- Detecting, Monitoring and Forecasting climate extreme events;
- Provision of climate information application services to multi-users sectors;
- Conducting training and capacity building activities in the generation and application of climate products



























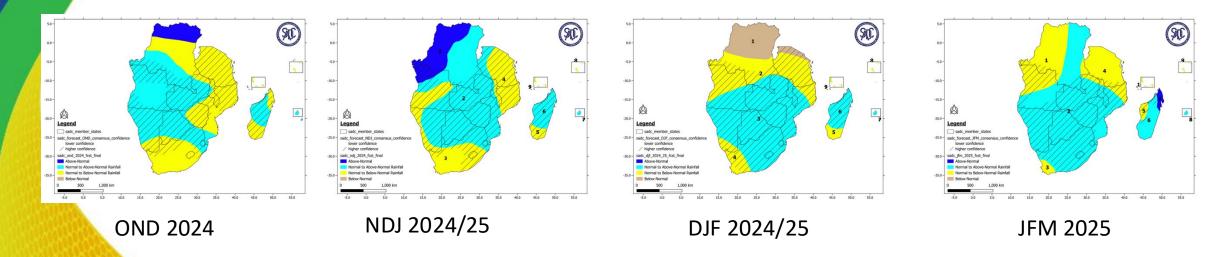
# 1.3 Cont...

- Organizing the climate outlook forum for the SADC region to support prevention, preparedness and early response to extreme climate events;
- Enhancing the interactions with the user through regional users interfaces during the outlook forum (DRR, Water Agricultural, Health and Communication & Media sectors...)

# II. Southern African Regional Climate Outlook Forum (SARCOF) processes and Coordination



- Commenced in 1996 with the first COF in the WMO COF processes
- Produced Consensus Outlooks without traceability until 2022
- Transitioned from a seminar format to a consultative forum where Technical Sectoral Working Groups for co-production purposes in 2017 were introduced
- As from 2023 Objective Seasonal Forecast principles were introduced where confidence levels on the Consensus Outlook were introduced to bring forth traceability of the outlooks
- Regional Sectoral User Interface Platforms (RSUIPs) were initiated to replace the TWGs in SARCOF-27
  in Mauritius through a set of ToRs and these ToRs were finalized in SARCOF-29 in Zimbabwe to
  replace the ad-hoc Technical Sectoral Working Groups.



\* Hashing represents areas where the seasonal outlook has a Higher Confidence Level





















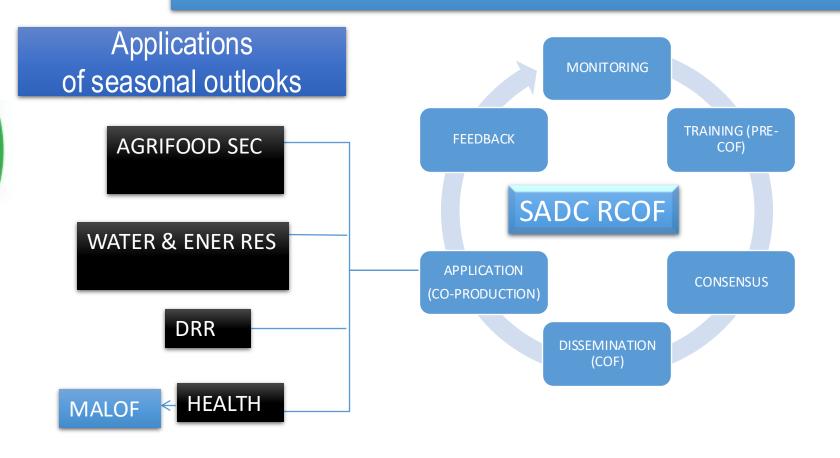






# II. SARCOF PROCESS





CAPACITY BUILDING WORKSHOP CONSENSUS MEETING NATIONAL CLIMATE OUTLOOK FORUMS

DISSEMINATION MEETING REGIONAL SECTORAL ADVISORY MEETINGS

Aug - Sept

Sept

Dec









**APPLICATION** 















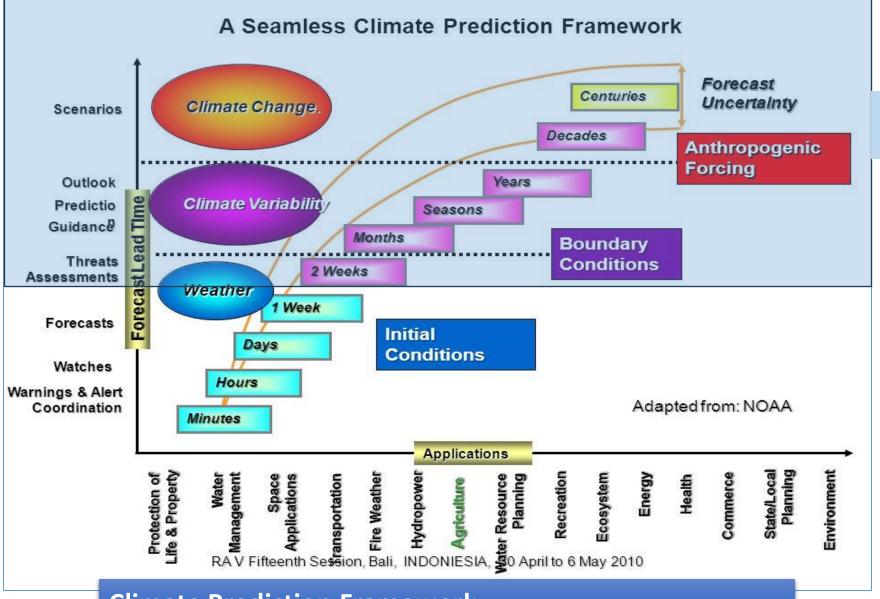






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### **Functions of a WMO RCC**

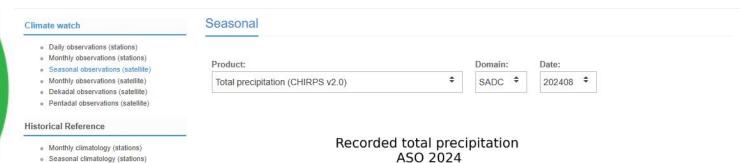


RCC operations

**Climate Prediction Framework** 

# III. Examples of Functions of SADC-CSC as a WMO RCC





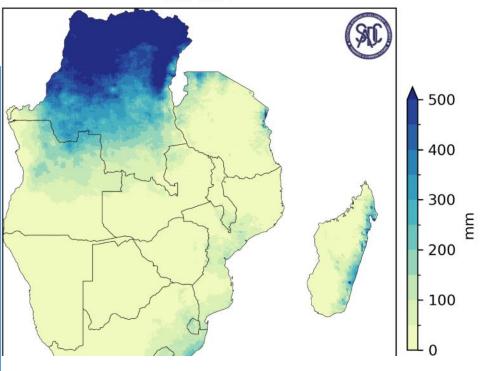
### **B. Regional Climatology**

- 1. Gauge station from GTS
  - a) Extreme weather

Extreme weather indices (stations)
 Seasonal climatology (satellite)
 Monthly climatology (satellite)

Dekadal climatology (satellite)
 Pentadal climatology (satellite)

- b) Monthly
- c) Seasonal
- 2. Satellite
  - a) Pentadal
  - b) Dekadal
  - c) Monthly
  - d) Seasonal

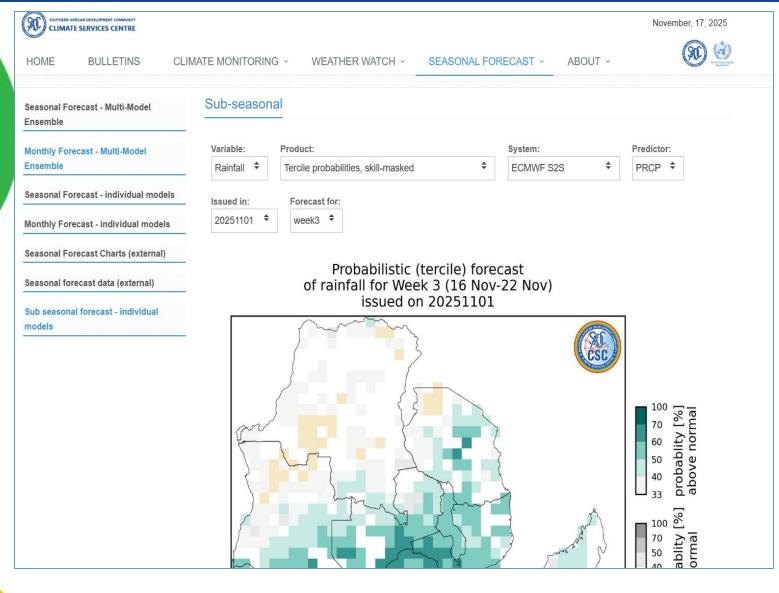


# A. Regional Climate Monitoring

- 1. Gauge station from GTS
  - a) Dailly
  - b) monthly
- 2. Satellite dataset
  - a) Pentadal
  - b) Dekadal
  - c) Monthly
  - d) Seasonal

# III. Functions of SADC-CSC as a WMO RCC





### C. Long Range Forecasting

- Single-Model
  - a) Monthly
  - b) Seasonal
- Multi-Model Ensemble
  - a) Monthly
  - b) Seasonal

### D. Sub-Seasonal Forecasting

a) Week 1 to Week 3





























# IV. Benefits of the SEWA project in the SADC region



- Access to space-based data and services
- Co-developing and operate satellite-based nowcasting products tailored to national needs.
- Co-designing with SEWA partners to support decision-making and early action in high-risk situations
- Organised exchanges, technical meetings, and continental forums will help align efforts across sectors and regions
- Human capacity building