



Institutional Arrangement

SADC-Climate Services Centre

Climate Change Adaptation in Agriculture

Lilongwe, Malawi, 6th December 2013

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Outline

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SADC Meteorology Sector

The objective for the Meteorological Sector is to establish systems and infrastructure that are fully integrated, efficient and cost effective to meet the requirements of the users, and to minimise adverse effects associated with the severe weather and climate phenomena. This objective is espoused in the Meteorology Chapter of the SADC Protocol on Transport, Communications and Meteorology.

Role of SADC Climate Services Centre

OBJECTIVE

To contribute to mitigation of adverse impacts of extreme climate variations on socioeconomic development.

- This is achieved through the monitoring of near real-time climatic trends and generating mediumrange (10-14 days) and long-range climate outlook products on monthly and seasonal (36 months) timescales.
- The products are disseminated in timely manner to the communities of the sub-region principally through the NMHSs, regional organizations, and also directly through email services to various users who include media agencies. Our products are readily available on our website <http://www.sadc-climate.org> and also by direct email.

Operational Activities

- Developing and archiving of global, regional and national quality controlled climate databanks
- Providing of climate monitoring, prediction and application services,
- Develop synergies with international sister organizations
- Conducting training and capacity building activities in the generation and application of climate products
- Organizing the SARCOFs (Southern Africa Regional Climate Outlook Forums), and
- Enhancing the interactions with the users through regional users and/ media workshops.

Capacity Building

- Training SADC (NMHSs) staff on developing climate monitoring and prediction techniques of NMHSs through the Climate Expert Meeting, that precedes Southern Africa Region Climate Outlook Forum (SARCOF) process
- Hosting of National Visiting Scientists from SADC (NMHSs) at CSC on attachments, during which they are taken to various trainings and are involved in a number of research activities.

Southern African Regional Climate Outlook Forum (SARCOF)

- SADC CSC organises the Climate Expert Meeting every year to develop the consensus regional climate outlook, and holds Southern Africa Region Climate Outlook Forum (SARCOF) to distribute the products to media and users from different organisations inside and from outside the region.
- Strengthened interaction between the users and the climate scientists to enhance the application of meteorology to the reduction of climate related risks to food security, water resources and health for sustainable socio-economic development in the SADC region

SARCOF PROCESS

**Capacity Building & Development
of
Countries' Forecasts**

Consensus Meeting

SARCOF

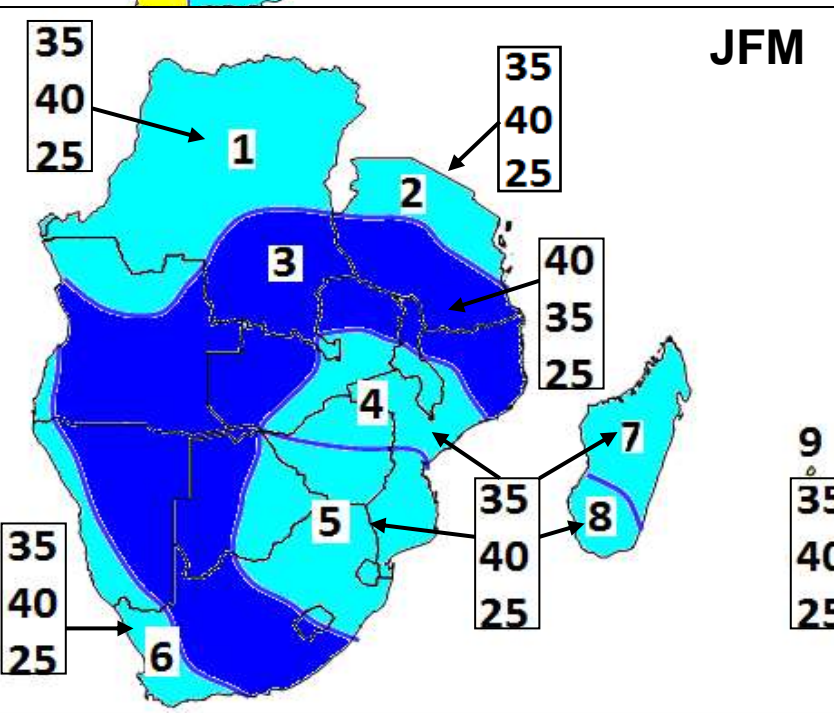
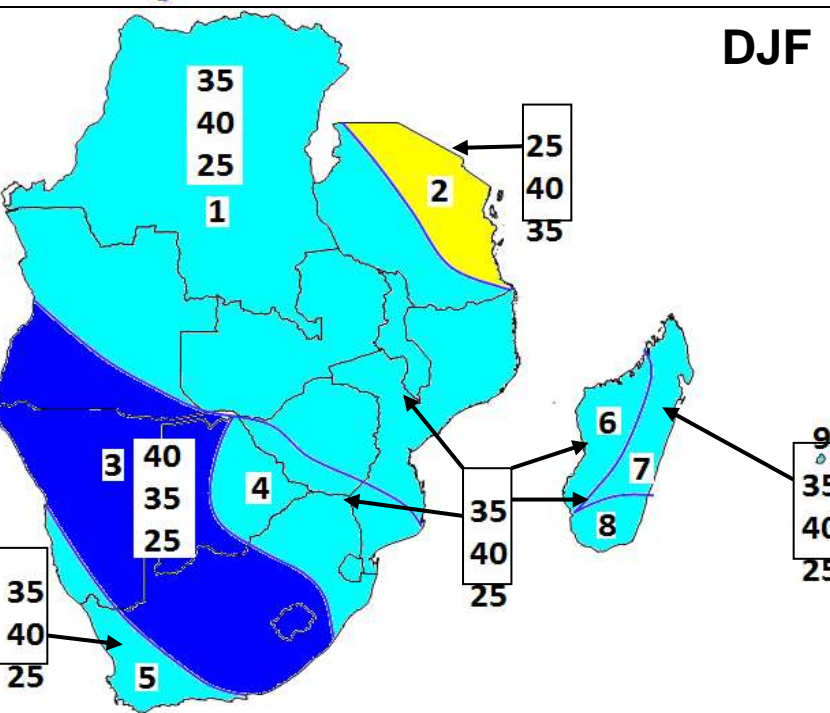
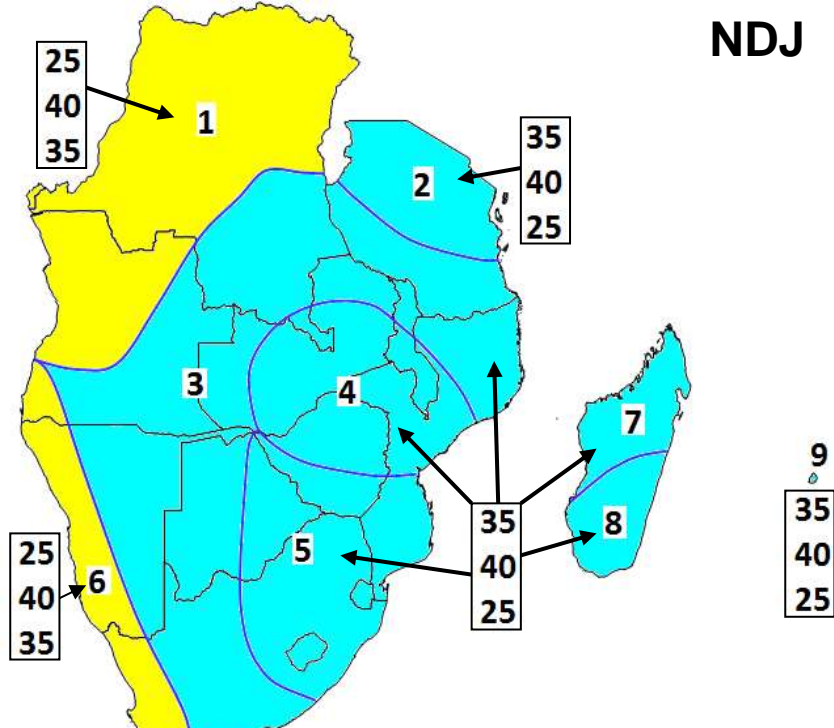
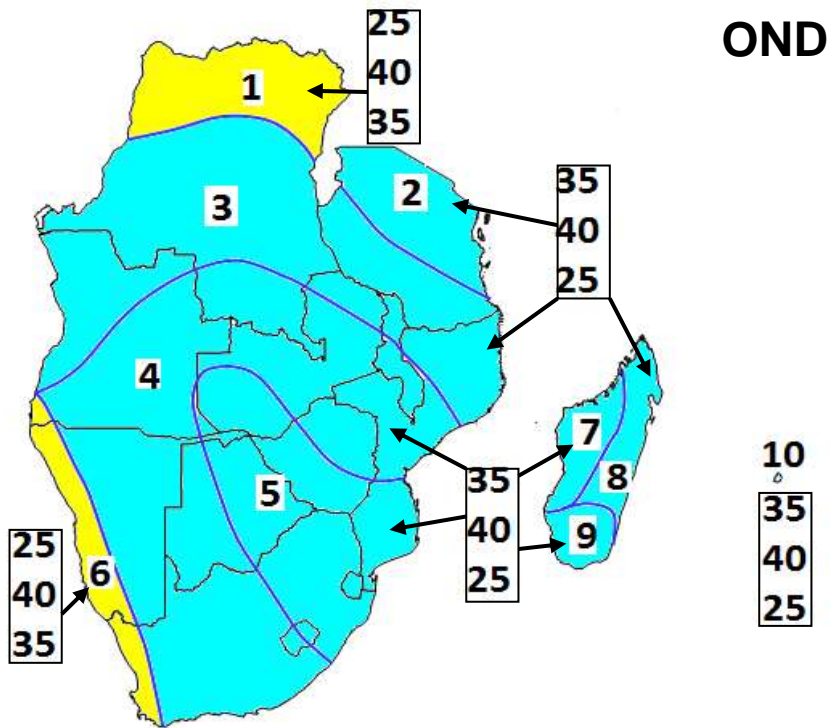
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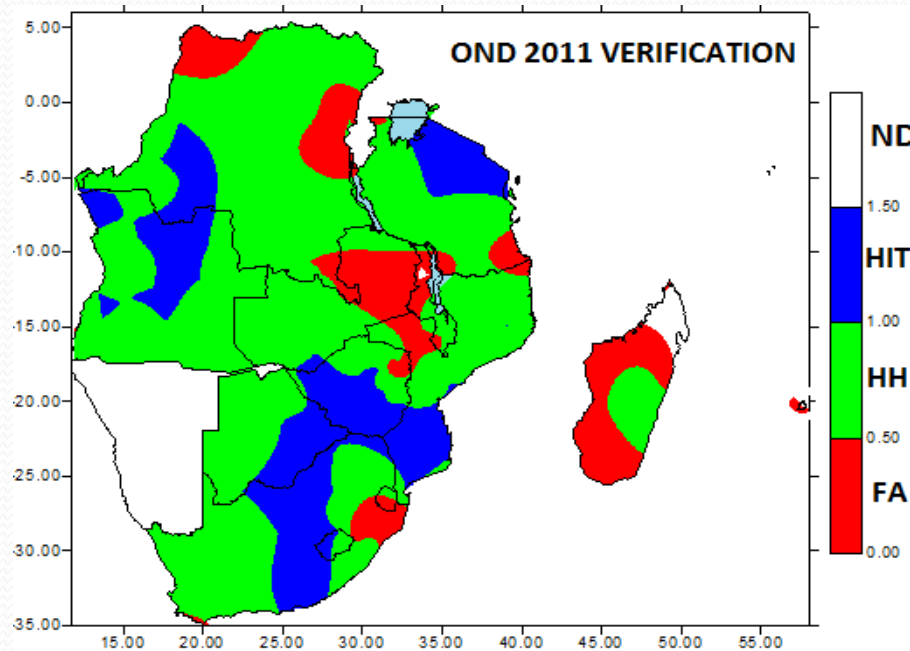
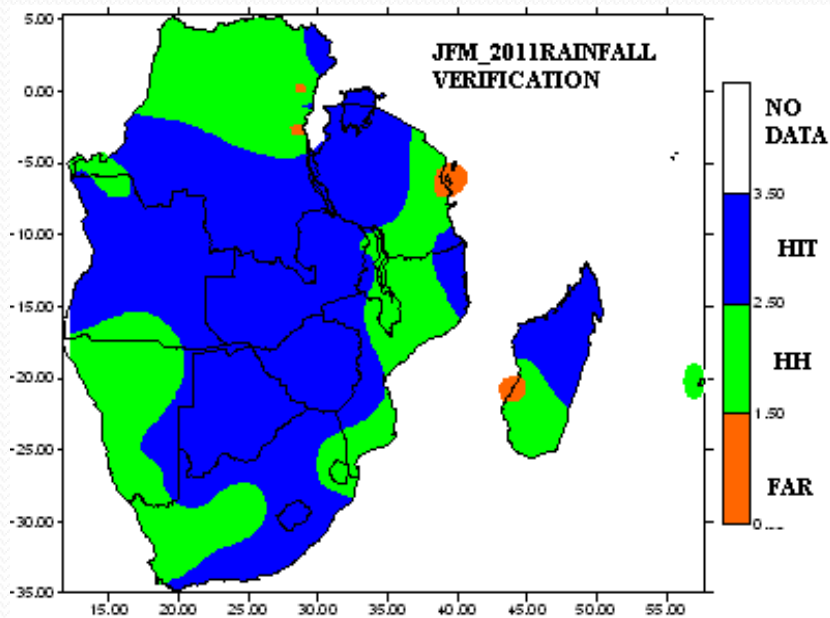
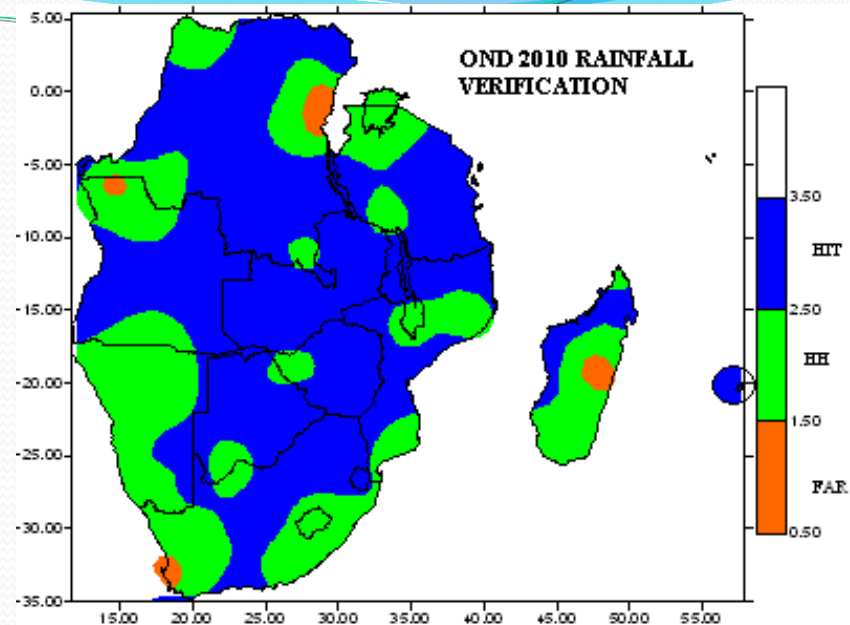
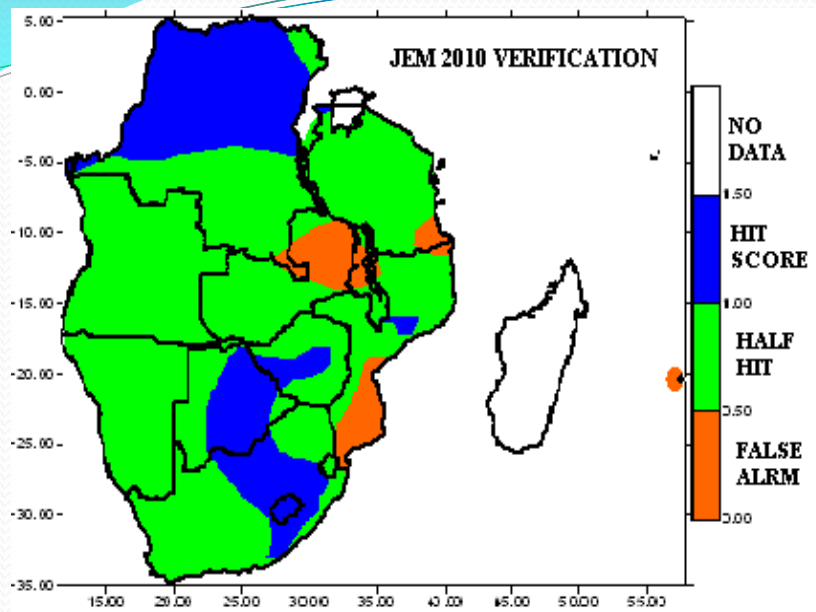


SADC CSC Products

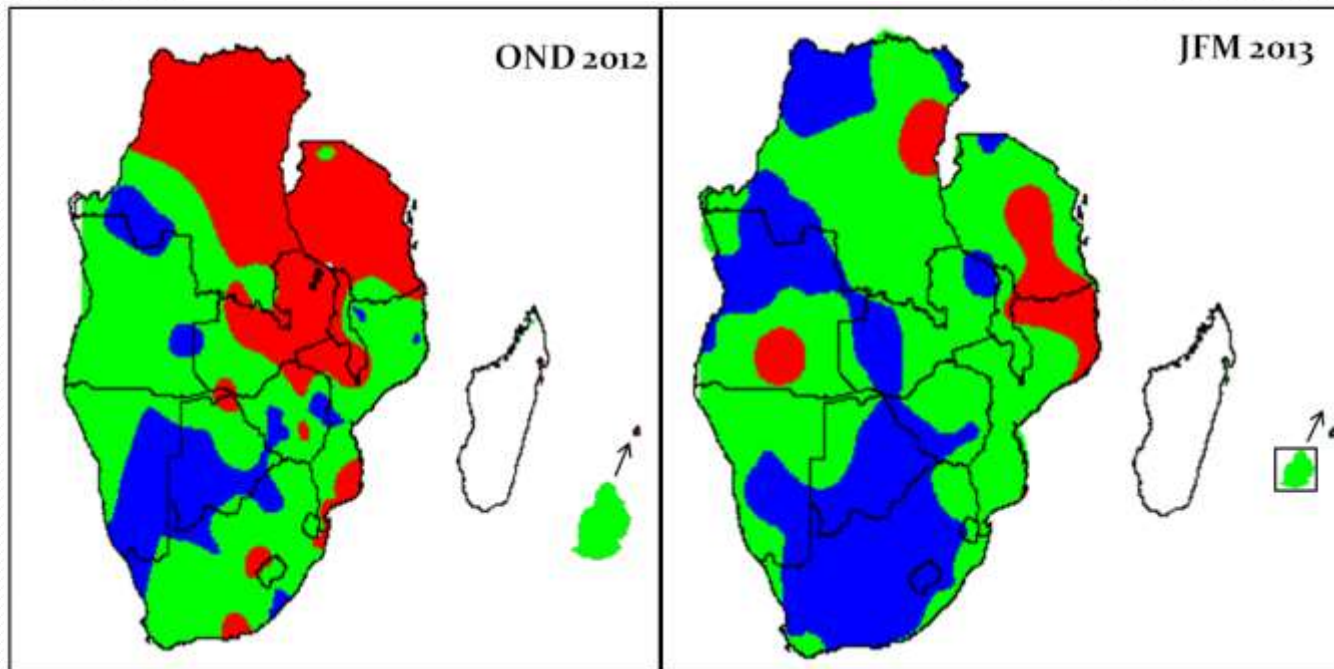
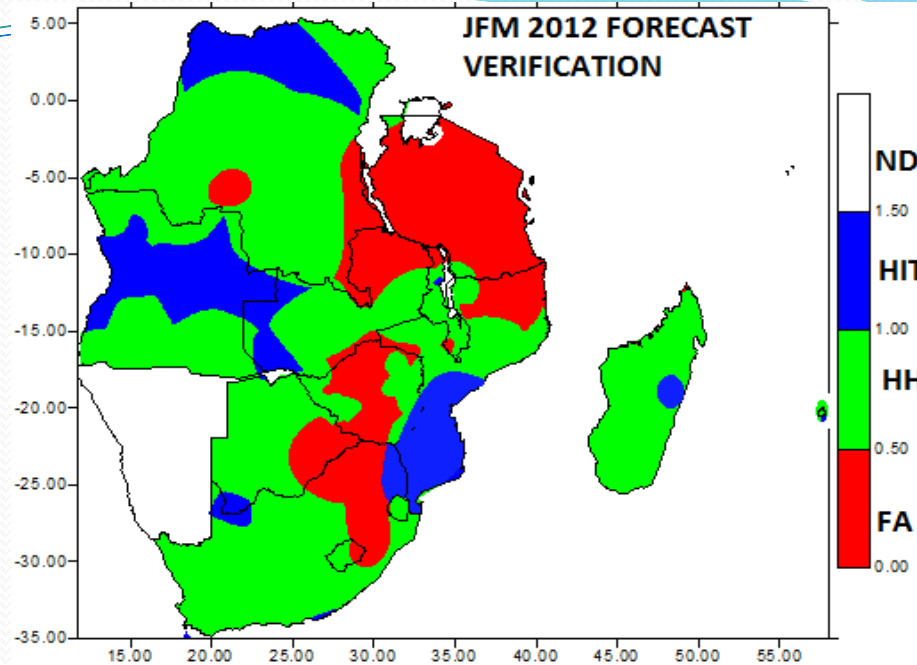
- Extreme weather events reports
- Drought monitoring reports & early warnings
- Seasonal climate outlooks and updates
- Climatological bulletins, etc.



Seasonal Forecasts Verifications



Seasonal Forecasts Verifications



Challenges & Opportunities

- Climate Monitoring and Prediction
 - ❖ Need for continuous consultation with end users
 - ❖ Training in the use of information
 - ❖ Inadequate resources: professionals and equipment
- Improved Seasonal Climate Forecasts (onset of rains, distribution & dry-spell detection), Dynamic modelling
- Enhance disaster risk reduction, National to regional
- Assistance from external sources is still essential for the continuation of the programme activities.



Thank you!