



WMO Global to regional climate services for better climate change adaptation and risk management



WMO OMM

World Meteorological Organization Organisation météorologique mondiale



UNFCCC/SBSTA 10th Session – 9th Research Dialogue Boon, Germany, May 10, 2017



OUTLINE



- Climate Service Information System functions
- International Coordination Team for CSIS
- Implementation scales and Sample products/services
- -Use of CSIS products for CCA&CRM and gaps
- Concluding Remarks

GFCS/CSIS

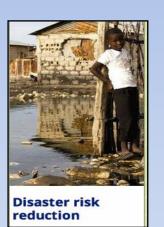


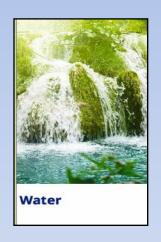
GFCS Vision



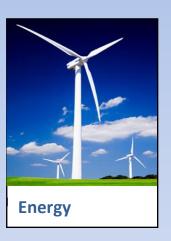
Enable better management of the risks of climate variability and change and adaptation to climate change











1WEEK TO A SEASON

3 YEARS 10 YEARS I₃₀ YEARS

100 YEARS

SHORT-TERM

INTERANNUAL

DECADE-TO-CENTURY





GFCS GLOBAL FRAMEWORK FOR **CLIMATE SERVICES**



Reducing the vulnerability of society to climate-related hazards through better provision of climate information.



1: Priority Applications Improving decision making in climate-sensitive areas:

- Health
- · Food security and agriculture
- · Disaster risk reduction
- Water resources
- Energy

3: Foundational Pillars Enhancing technical and scientific capabilities to support user-driven climate services:

- · Observations and monitoring
- · Research, modeling, and prediction
- · Climate services information systems











2: Bridge Connecting user needs with climate services through sustained engagement mechanisms:

- · National activities
- · Regional activities
- Global activities

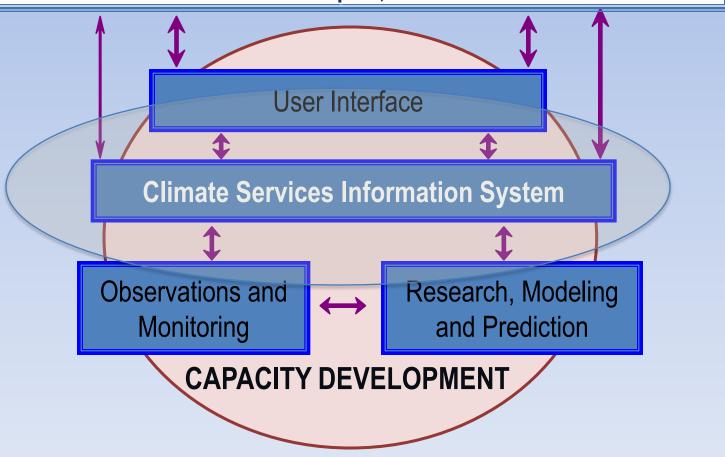




How GFCS operates?



Users – Government, private sector, research – agriculture, water, health, construction, disaster reduction, environment, tourism, transport, etc.





CSIS GOAL AND FUNCTIONS



- CSIS produces and delivers information about past, present and future climate for policy, decision making and practices
- Functions include:
- climate data management;
- climate analysis, monitoring, assessment and attribution;
- climate predictions (from weeks to a decade) and projections (several decades to centuries)

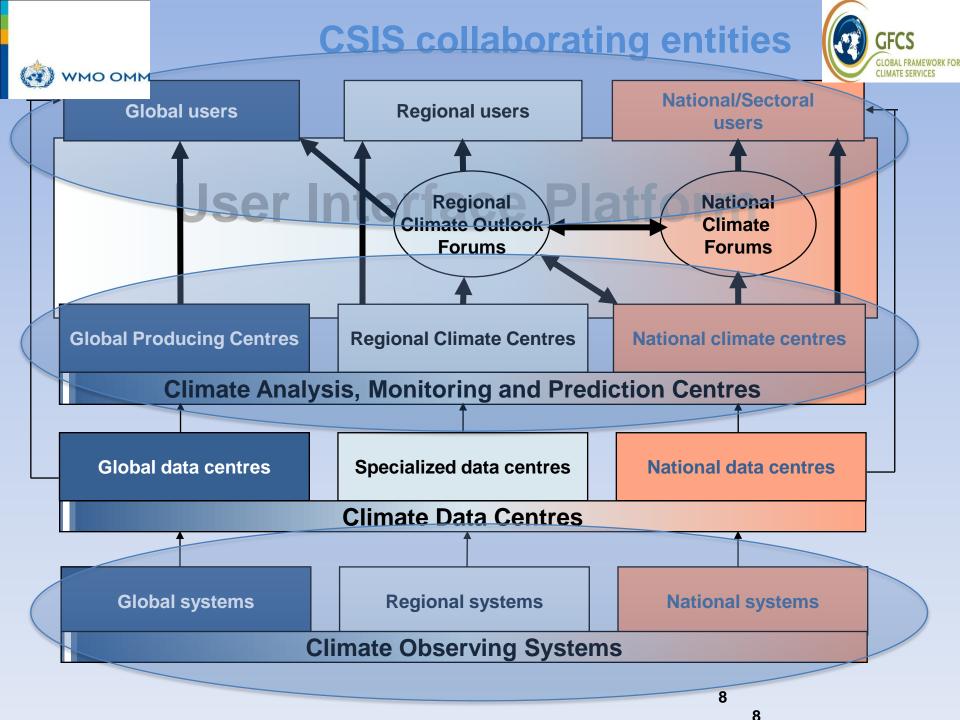


ICT-CSIS



The Implementation Coordination Team (ICT) was established by WMO/CCI to ensure operation and coordination of CSIS

- ✓ Keep under review the features of the Climate Services Information System (CSIS);
- ✓ Advise and coordinate support across WMO Technical Commission for Climatology,;
- ✓ Elaborate a minimum set of climate information outputs expected from the CSIS at the global, regional and national levels;
- ✓ Liaise closely with other WMO technical commissions to facilitate production, exchange including the development of Technical Reference manual;
- ✓ Collaborate with experts within and outside of the Commission to build a Climate Services Toolkit;
- ✓ Provide guidance on user interface and capacity development for climate services.

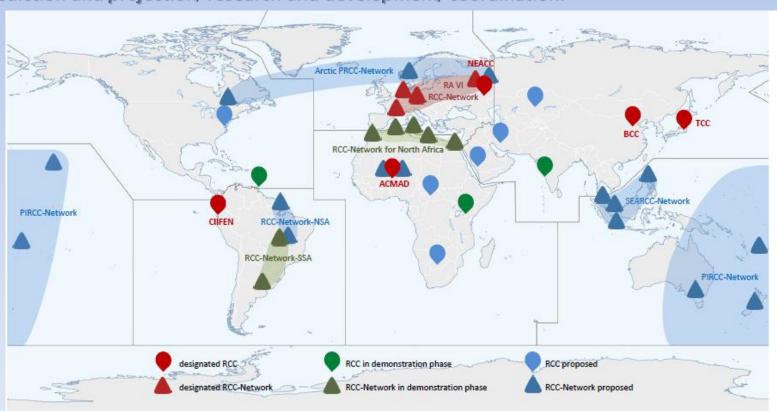




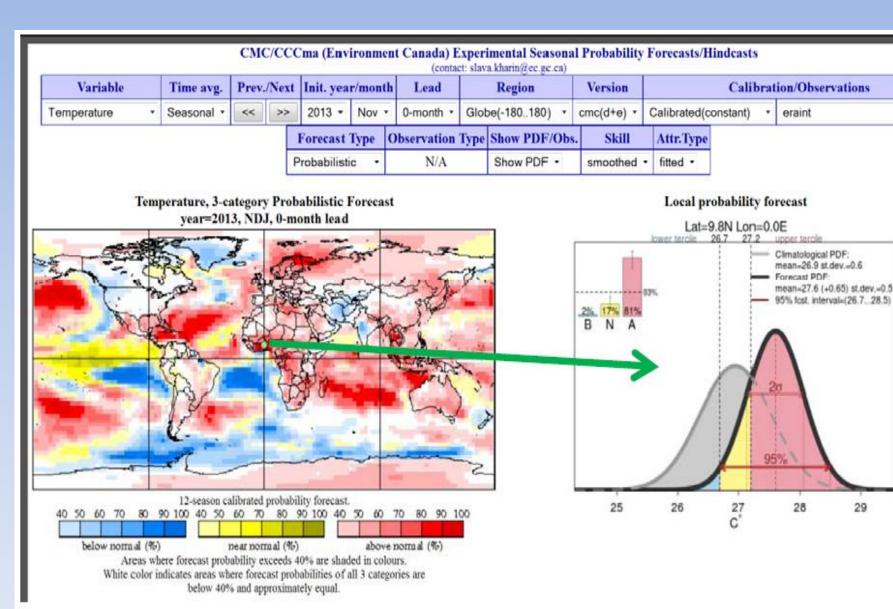
World Meteorological Organization (WMO) Regional Climate Centers



- RCCs are Centres of Excellence intended to perform regional-scale climate functions
- Established at the request of the Members of the WMO Regional Associations
- Official accreditation given by WMO after a successful 2- 4 yrs demonstration phase
- Primary users are the National Meteorological and Hydrological Services (NMHS)
- RCCs functions include data services, training, monitoring, long range forecasting, Climate prediction and projection, research and development, coordination.



SAMPLE PRODUCT FROM WMO GLOBAL CENTRES



29



Sample Regional Products





CLIMATE SERVICES FOR DISASTER RISKS REDUCTION IN AFRICA

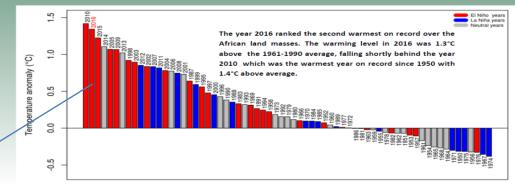


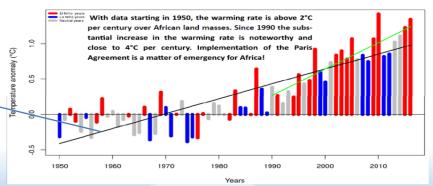
PARIS AGREEMENT

Its aims to strengthen global response to CC

Objective: Hold the global temperature increase well below 2° C above pre-industrial levels and pursue effort to limit it below 1.5° C

IN ORDER TO ENSURE THE EFFECTIVE MONITORING OF THE WARMINGRATE IN AFRICA. COUNTRIES NEED TO REHABILITATE THE OBSERVATION NETWORK.





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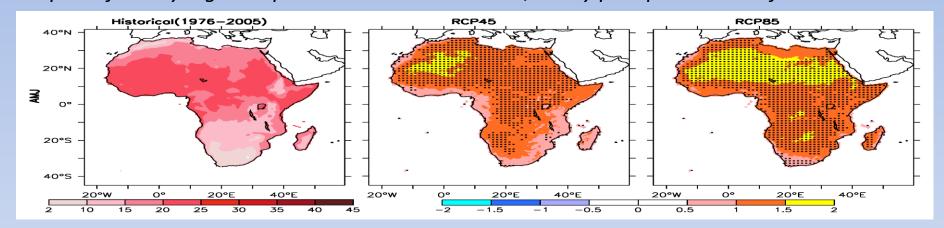
Email: information@acmad-au.org

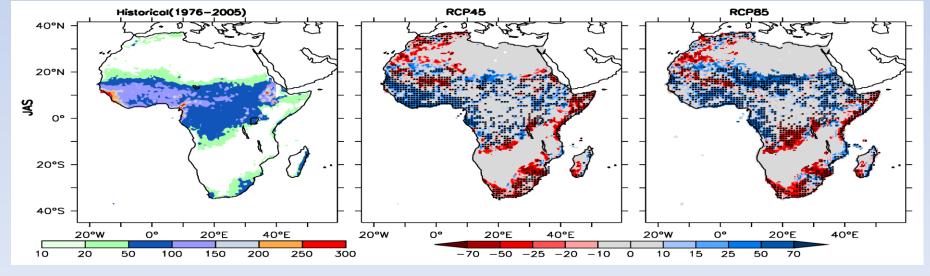


PIDA AND CAADP IN AFRICA



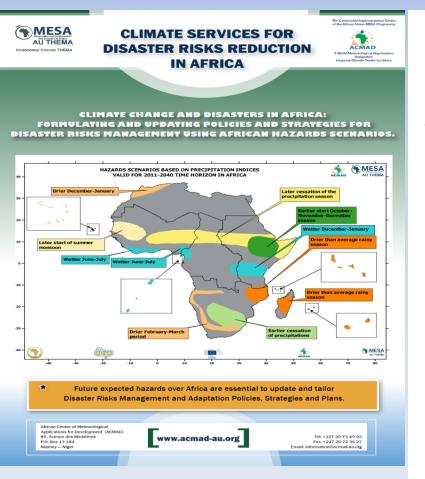
Change in mean seasonal (AMJ) minimum temperature (top) and JAS Maximum 10 day precipitation (bottom) between the future (2011-2040) and present-day (1976-2005). Design Roads, energy infrastructure (PIDA) and agriculture (CAADP) calendars to adapt impacts for very high temperatures and heat waves, heavy precipitation and floods





Contribution to implementation of African DRR&CC strategic objective/pillars

- -improve identification and assessment of disaster risks (DRR)
- -Mainstreaming and integrating climate change imperatives in planning, budgeting, and development processes (CC)
- -Promotion of research, education, awareness raising and advocacy (CC)





Climate Services for Disaster Risks Reduction in Africa

FED/2014/331-704





A project led & implemented by the African Center of Meteorological Applications for Development

SECOND POLICY DIALOGUE DAY REPORT

THEME: "Changing climate and impacts on economy, society and environment in Africa: how to organize planning and budgeting of climate services for more resilient development strategies and plans?"

DATE: WEDNESDAY FEBRUARY 15, 2017
VENUE: SOLUXE HOTEL IN NIAMEY -NIGER

An event organized by the African Centre for Meteorological Applications for Development (ACMAD) with the support of the 10th European Development Fund (EDF) through the Monitoring of the Environment for Security in Africa(MESA) Programme.

Agenda 2063 -**ASPIRATION 1:**

A prosperous Africa based on inclusive growth and sustainable development.

Agenda 2063 -**ASPIRATION 4:**

A peaceful and secure **Africa**

RECOMMENDATION ON CONTINENTAL **COLLABORATION FOR IMPLEMENTATION OF** AGENDA 2063

AUC, partners and networks support operationalization of ARC, ACMAD and AfBD collaboration to support Aspirations 1 and 4 of our Africa Agenda



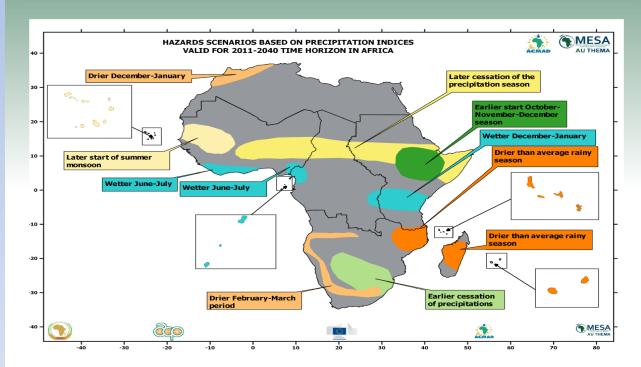
CLIMATE SERVICES FOR DISASTER RISKS REDUCTION **IN AFRICA**



of the African Union MESA Programme

designated
Regional Climate Centre for Africa

CLIMATE CHANGE AND DISASTERS IN AFRICA: FORMULATING AND UPDATING POLICIES AND STRATEGIES FOR DISASTER RISKS MANAGEMENT USING AFRICAN HAZARDS SCENARIOS.



Future expected hazards over Africa are essential to update and tailor Disaster Risks Management and Adaptation Policies, Strategies and Plans.

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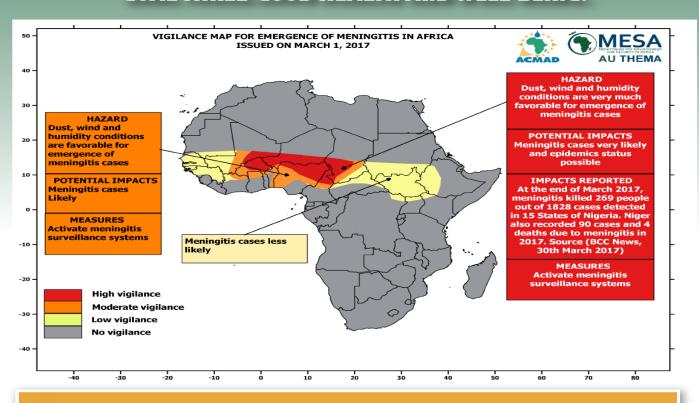
CLIMATE SERVICES FOR DISASTER RISKS REDUCTION IN AFRICA

The Continental Implementation Centre of the African Union MESA Programme



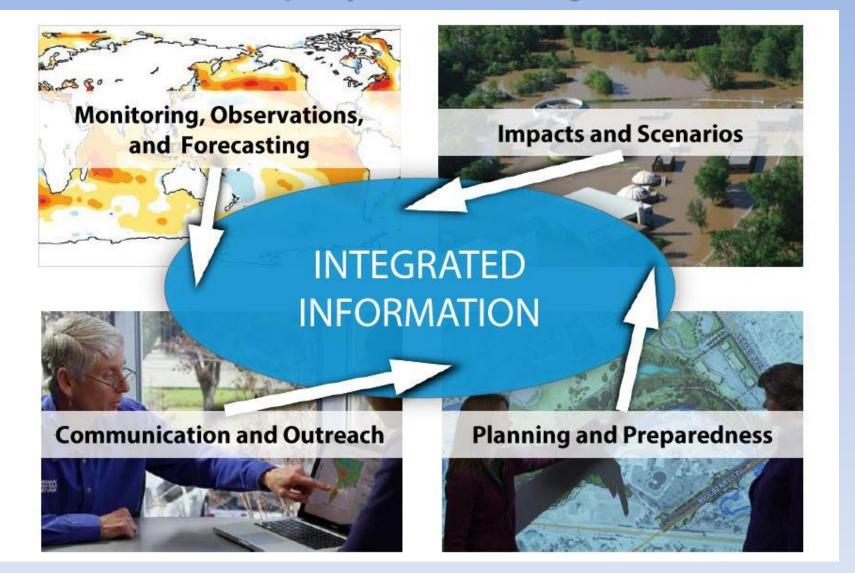
A World Meteorological Organisation designated Regional Climate Centre for Africa

CLIMATE SERVICES FOR MENINGITIS EPIDEMIC SURVEILLANCE AND CONTROL IN AFRICA IN SUPPORT OF SUSTAINABLE DEVELOPMENT GOAL THREE-GOOD HEALTH AND WELL-BEING.



As part of the implimentation of SENDAI Framework for Disister Risk Reduction,
African countries in the meningits belt are encouraged to consider vigilance
products for optimal planning and distribution of vaccine following the best
practice initiated in Niger through the ministry of Healf

Challenge to operationalize Integrated Information System for effective policy, decision making and actions



REMARKS ON FUTURE ACTIVITIES

- Inventorying and making available and usable <u>existing</u> data, methods, tools, products and services
- Identify improvements and further develop the syst
- Develop <u>capacity</u> and <u>governance</u> to support observations, research, modelling, prediction, information and use
- Prioritize capacity development on integration of climate information in sustainable development planning and budgeting processes
- (e.g Agenda 2063 of the African Union)

THANKS !!!