

**EWS Expertise to support
Multi Hazards Early Warning System
(MHEWS)**

In the

**African Center of Meteorological
Applications for Development (ACMAD)**

Report on the status website

D2

Submitted by

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1. LIST OF ACRONYMES

ACMAD	African Centre of Meteorological Applications for Development
AMHEWAS	Africa Multi-Hazard Early Warning and Early Action System
AUC	Africa Union Commission
DOC	Disaster Operations Centre
DRM	Disaster Risk Management
DRR	Disaster Risks Reduction
GFCS	Global Framework for Climate Service
GIS	Geographic Information System
GMAS	Multi-hazard Alert System
GPDRR	Global Platform for Disaster Risk Reduction
ICPAC	IGAD'S Climate Prediction and Applications Centre
IFCR	International Federation of Red cross and Red Crescent
IGAD	Intergovernmental Authority on Development
IN-MHEWS	International Network on Multi Hazards Early Warning Systems
LDC	Least Developed Countries
MHEWAS	Multi-hazard Early Warning System
MHEWC	Multi-Hazard Early Warning Conference
MHEWS	Multi-Hazard Early Warning System
myDEWETRA	(Italian acronym) Open-source web-based system for real-time monitoring and forecasting of natural hazards like floods, landslides, and wildfires.
NMHS	National Meteorological and Hydrological Services
OCHA	Office for the Coordination of Humanitarian Affairs
REC	Regional Economic Communities
RCC	Regional Climate Center
SFDRR	Sendai Framework for Disaster Risk Reduction
SIDS	Small Island Developing States
SOP	Standard Operating Procedures
UNESCO	United Nations Educational, Scientific and Cultural Organization

UNDRR	United Nations Office for Disaster Risk Reduction
UNDP	United Nations Development Programme
WCASP	World Climate Applications and Services Programme
WMO	World Meteorological Organization
WMO-WIS	WMO Weather Information System

Introduction

According to the work plan, we are asked to carry out the evaluation of the attractive website.

ACMAD is an institution that offers services in the field of weather forecasting and climate. This website is intended for any user wishing to learn about the services offered by ACMAD.

2. Presentation of the site

The ACMAD website includes sections and forms allowing the exchange of information with users.

It is broken down according to the table below:

Description	Number
Pages	108
article	13
Table	31
Slide	11

Content distribution

Everything is divided into 9 sections containing an average of 3 pages.

3. Constant performed

The home page: this is not at all ergonomic or modern. Indeed, this presentation is not necessarily obvious on the first visit. Moreover, it does not bring much since each element.

This remark can also apply to the site in general. The graphic charter is not modern and should be reworked in order to highlight useful information for the center's visibility. Although there is a graphic charter followed throughout the site, it is too busy and prevents the proper visualization of information.

The information is also rather poorly displayed. In effect; they are not highlighted on certain pages, there is too much information and these are rather poorly arranged on the site.

Some pages are redundant such as contact pages. Indeed, it has two different pages to display the contact. This could be displayed in one page. On the other hand, some pages are almost empty, so it's a shame to create a page to display only one line. This multiplies the complexity of the site for, in the end, not much information.

Other issues have been listed as follows:

- links are broken
- Mixed content issues
- Duplicate content issues
- Duplicate meta descriptions issue
- Problems returning 4XX status codes
- Problems with corrupted internal javascript and CSS files

4. Amendment performed

Several corrections to problems have been performed:

- clean the HTML code of our web pages,
- examine and correct all corrupt javaScript and CSS files hosted on our websites
- remove all links leading to the error page
- rename web pages
- remove duplicate content pages

5. Suggestion performed

AFRICAN CENTER OF METEOROLOGICAL APPLICATIONS FOR DEVELOPEMENT
African Institution under the aegis of UNECA and WMO

About ACMAD | Our Work | Subregional Partnership | Capacity Development | Products and Services | Events | Governance | Projects | Contact Us

ACMAD: hint on Products

SHORT RANGE Weather FORECAST

It is a forecast beyond 12 hours and up to 72 hours description of weather parameters. It is a probabilistic forecast. It involves assessment of outputs from regional (WRF) and global multimodel...

WEEKLY Weather FORECAST

A summary of the significant rainfall situation during the past week over Africa and a rainfall forecast for the next seven days. It is an ensemble forecast. It gives weekly total accumulated rainfall. [Read more](#)

HEAT WAVE

It describes synoptic and large scale features driver high temperatures and heat waves in Africa. A bulletin highlighing high temperatures or heat waves location and magnitude as well as a heat wave

Search

Search ..

Atelier pour renforcer la p...

Calendar

novembre 2022						
lun	mar	mer	jeu	ven	sam	dim
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Home page

WEEKLY Weather FORECAST



Technical Note



Bulletin



Search

Search _

Atelier pour renforcer la p...

Calendar

novembre 2022						
<	mon	mar	mer	jeu	ven	>
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

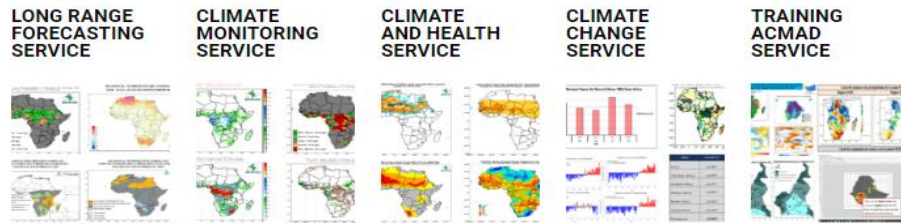
Weather

- o Current satellite image
- o 1-day accumulated precipitation observation:
 - Rain-gauge, archive
 - Satellite based, archive
- o Daily Max Tⁱ observation, yesterday
- o ITD & ITCZ Positions
- o Rapid Developing Thunderstorm (RDT)
- o Three day hazard outlook, Archive
- o Tech. note for synoptic forecast, Archive
- o Daily Max Tⁱ forecast: D, D+1, D+2, D+3.
- o -----
- o Continetal multimodel visualisation
- o UKMO model output, Africa

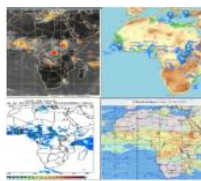
overview page for each service

data center

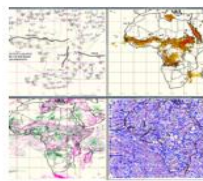
To ensure long-term preservation of the data and products generated by ACMAD's services, its data centre gives users the opportunity to consult, order and access ACMAD's data from its product catalogue. This is part of ACMAD's ongoing data rescue process.



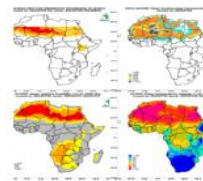
NOWCASTING



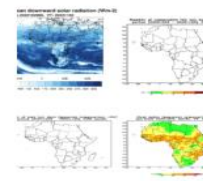
SHORT RANGE Weather FORECAST



WEEKLY Weather FORECAST



HEAT WAVE



Data center page

NOWCASTING

Product name	Short name	Description	Time period	Download
Accumulated Rainfall Forecast	Prec_FCT	It is a useful assessment of how much rain will fall in a longer period and whether continued rainfall in an area is something to consider. However, it is important to consider the characteristics of the model and how well it performs in your area.	03hours, 06hours	PNG CSV Geojson
Convective Available Potential Energy	CAPE	It represents the amount of buoyant energy available to accelerate a parcel vertically, or the amount of work a parcel does on the environment. CAPE is the positive area on a sounding between the parcel's assumed ascent along a moist adiabat and the environmental temperature curve from the level of free convection (LFC) to the equilibrium level (EL).	00UTC run, 06UTC run	PNG CSV Geojson
ENS Meteogram (Wind 10m, Temp 2m, total precip (mm/6h) and total cloud cover)	EPS	The Ensemble (ENS) Meteogram displays weather parameter time evolution in the high resolution (HRES, T1279), and ensemble (ENS, T639) forecasts for a given location. The ENS currently comprises 50 perturbed members, each starting from slightly different initial conditions, and an unperturbed Control forecast. The 10-day meteograms provide forecast distributions at 6-hour intervals up to day 10 for the following parameters: Total Cloud cover, Total Precipitation, 10m Wind Speed and 2m Temperature,	00UTC run, 12UTC run	PNG CSV Geojson

Data page

The links to the different pages of the data center

<https://acmad.org/index.php/nowcasting/>

<https://acmad.org/index.php/heat-waveheat-wave/>

<https://acmad.org/index.php/weekly-weather-forecast/>

<https://acmad.org/index.php/long-range-forecasting/>

Conclusion

The state of the site carried out made it possible to highlight the strengths but also the weaknesses of the acmad.org site.

This subjective work reflects many negative points because I was bothered by the navigation on the site as well as its general aspect which is not modern.

There weren't many positives noted because when you're not guided by criteria, you tend to notice either the positive ratings if you like the site, or the negatives if you don't like it. This therefore results in a very oriented and absolutely not exhaustive evaluation report.

To conclude, the acmad.org site fulfills its objective which is to inform its users about the services offered but is on the other hand very impractical to use.

This site evaluation exercise nevertheless makes it possible to emphasize many points of vigilance to be monitored when designing a website in order to facilitate the user experience.