



WORLD  
METEOROLOGICAL  
ORGANIZATION

## Making a Difference on the Ground: Data Rescue in Burkina Faso, Mali and Niger



**Modernized and re-organized climatological paper archives**



**Sustained imaging process for climatological paper records**



**Consolidated national climate databases**



**Updated national climatology**

BURKINA FASO

MALI

NIGER



### Implementation Strategy



**Phase 1:** A consultant was hired to assess the status of the archives and the archiving system, evaluate the national climatological database, determine the need for equipment, and propose solutions.



**Phase 2:** A consultant was engaged to implement the proposed solutions by:

- identifying and improving the space for the paper archives;
- purchasing equipment such as shelves, archive boxes, computers, digital cameras and software;
- hiring and training temporary part-time staff to re-organize the archives and image the documents;
- consolidating the national climatological databases;
- developing sub-national and sectoral tailored products; and
- collaborating with the African Centre of Meteorological Applications for Development (ACMAD), Regional Centre of Agro-Hydro-Meteorology (AGRHYMET), neighbouring countries, and other stakeholders.

“This project has shown what we can achieve with little funding: our climatological paper documents have been sorted, archived in boxes and shelved in clean archives rooms. Nearly 80% of our Monthly Climatological Tables (MCTs) have been imaged using digital cameras and our national climatological database have been consolidated. We will continue the process.”

**Djibrilla A. Maiga**

Director General of the Agence Mali-Meteo and  
Permanent Representative of Mali with WMO

## Results



BURKINA FASO

- All observations books of synoptic stations archived in boxes and shelved
- 8 591 MCTs (716 year) imaged using digital cameras
- Main parameters keyed in the national database up to 2015



MALI

- 90% of observation books and MCTs archived in boxes and properly shelved
- 24 655 MCTS imaged 2054 years
- Main parameters keyed in the national database up to 2015
- Phenomenon data currently being entered in the database
- On-site training of database managers



NIGER

- All observations books of synoptic stations archived in boxes and shelved
- 7 356 MCTs imaged
- Main parameters keyed in the national database up to 2015

## Products developed using the standard normals data 1981-2010

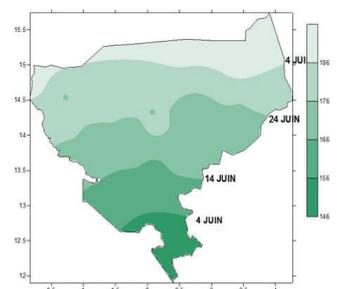
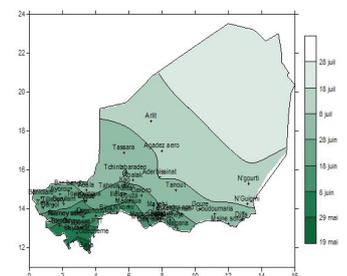
Onset and end of the rainy season in the region of Mouhoun, Burkina Faso



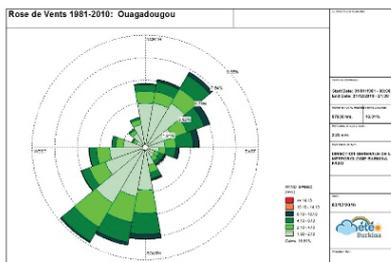
Onset and end of the rainy season in Kayes, Mali



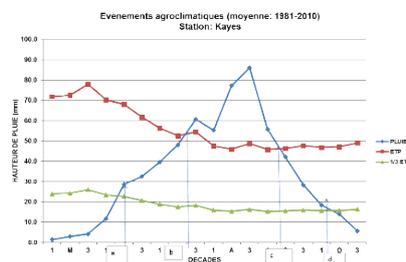
Onset of the rainy season in Niger and the region of Tillabery



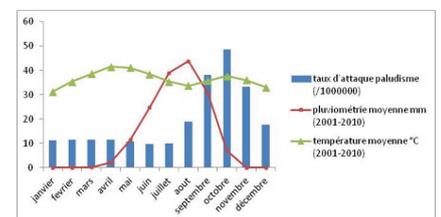
Wind rose from Ouagadougou, Burkina Faso



Agoclimatic events (average 1981-2010) for Kayes, Mali



Correlation diagram of rainfall and malaria outburst



This activity was executed under and funded by the Programme of Cooperation for Climate Change Adaptation in West Africa, and implemented by the Government of Greece and WMO. The main activities were carried out between September 2014 and September 2016.

WMO Guidelines on data rescue: <http://www.idare-portal.org>

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