



Requirements for managing information for agriculture, meteorology and hydrology, regional perspective

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Item number : 2.9



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale

PLAN

- ❖ **About AGRHYMET Regional Centre (ARC)**
- ❖ **Regional climate database hosted by ARC**
- ❖ **Data sharing policies**
- ❖ **Products and Information at regional Level**
- ❖ **Needs**

AGRHYMET Regional Centre (ARC): a specialized institution of the CILSS

CILSS : created in 1974 following the catastrophic droughts of the early 1970s that caused great losses in crop production, livestock, along with large scale humanitarian disaster

13 member countries



**Benin
Burkina
Faso
Cape-Verde
Côte d'Ivoire
Gambia**

**Guinea
Guinea-Bissau
Mali
Mauritania
Niger**

**Senegal
Chad
Togo**

Mission : contribute to a sustainable food security and a rational natural resources management in member countries by :

- ✓ Reinforcing national capabilities (training, equipment etc..)
- ✓ Producing and disseminating information to decision makers at different levels (national authorities, cooperation partners, NGOs and farmers)

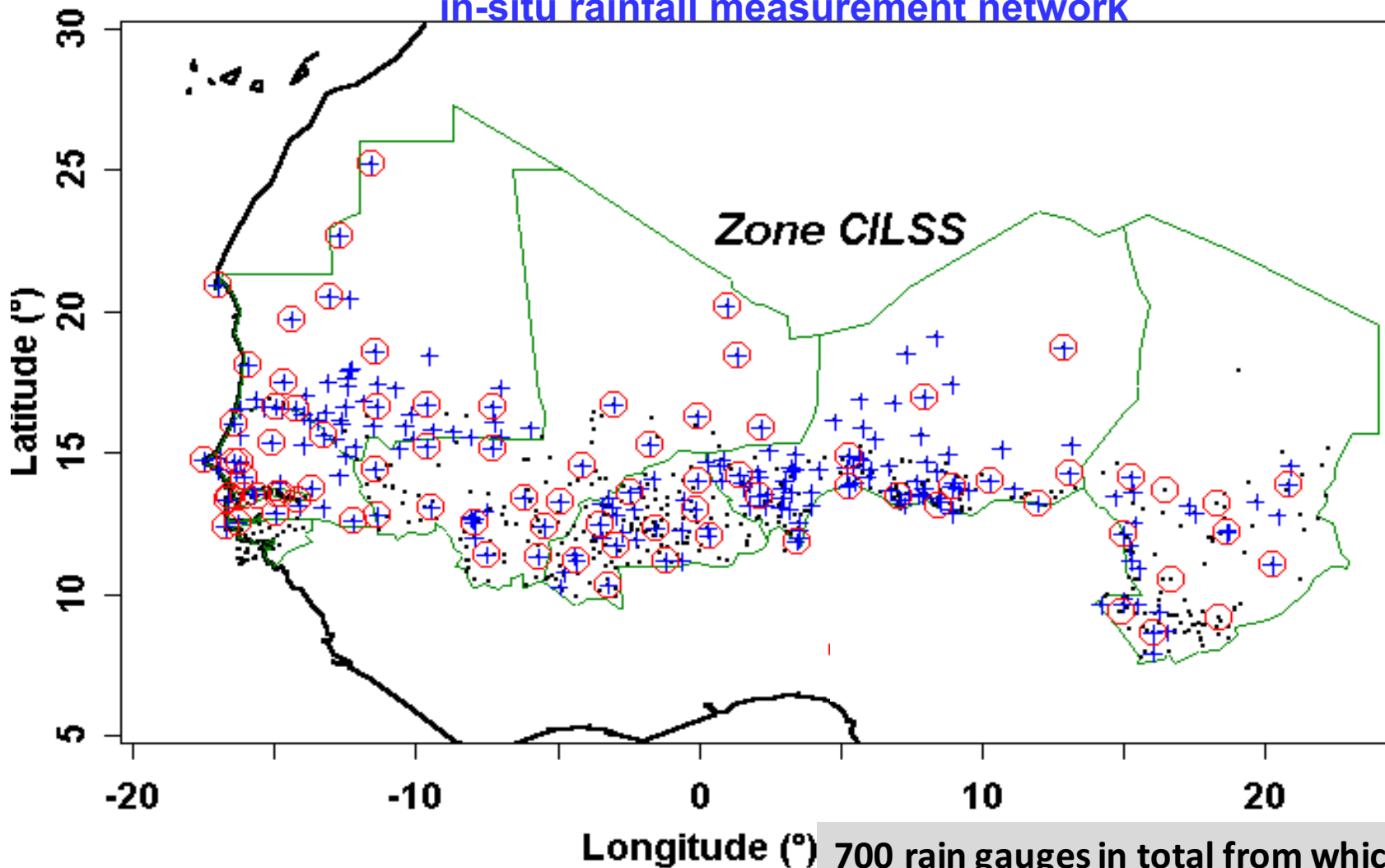
Organization

Multidisciplinary working groups : specialists in meteorology/climate, hydrology, agronomy, crop protection, animal husbandry, GIS, computer science , etc...)



ARC REGIONAL CLIMATE DATABASE

in-situ rainfall measurement network

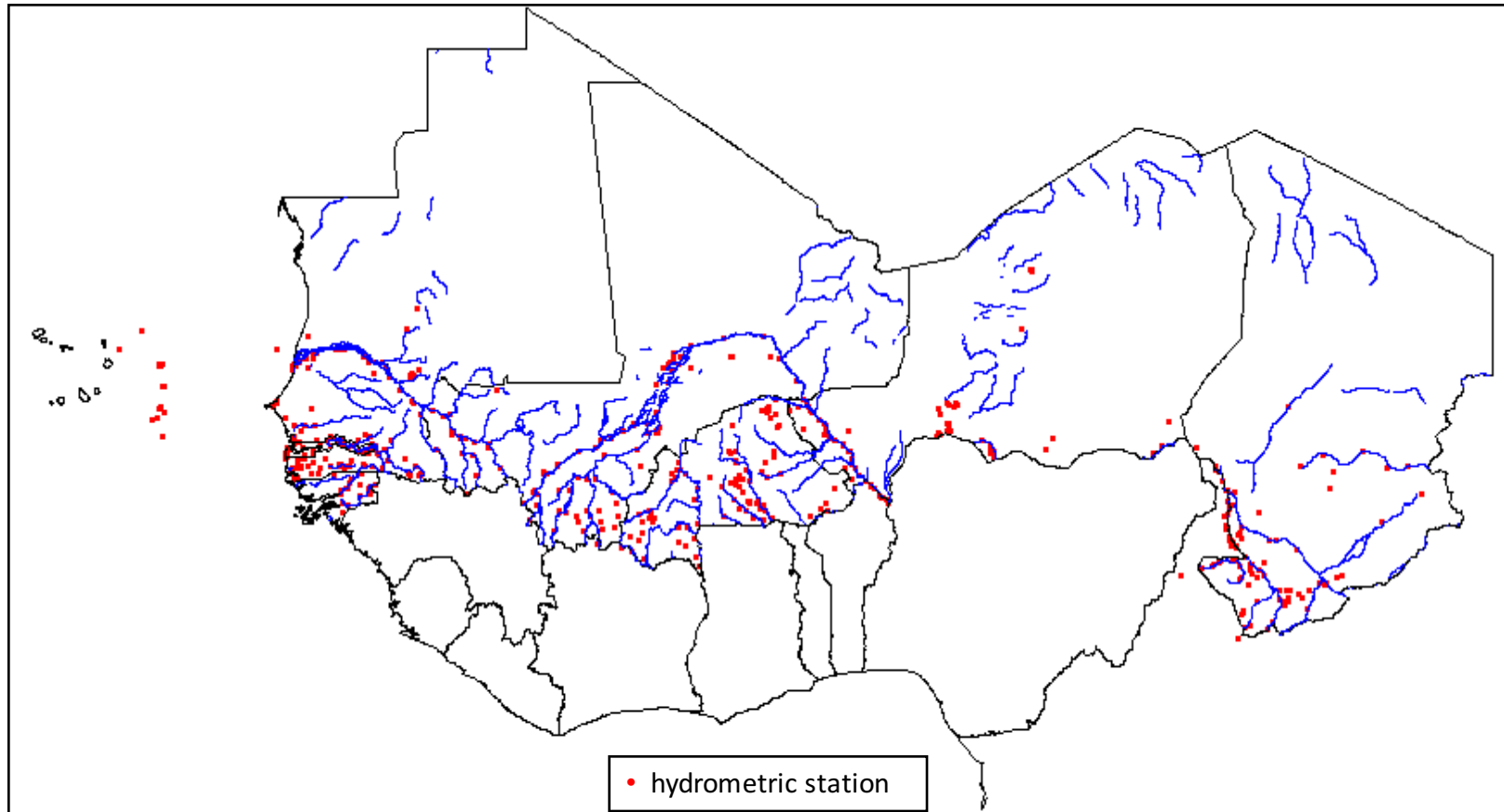


700 rain gauges in total from which 300 are used in near-real time for the agricultural campaign monitoring (80 synoptic)



ARC REGIONAL CLIMATE DATABASE

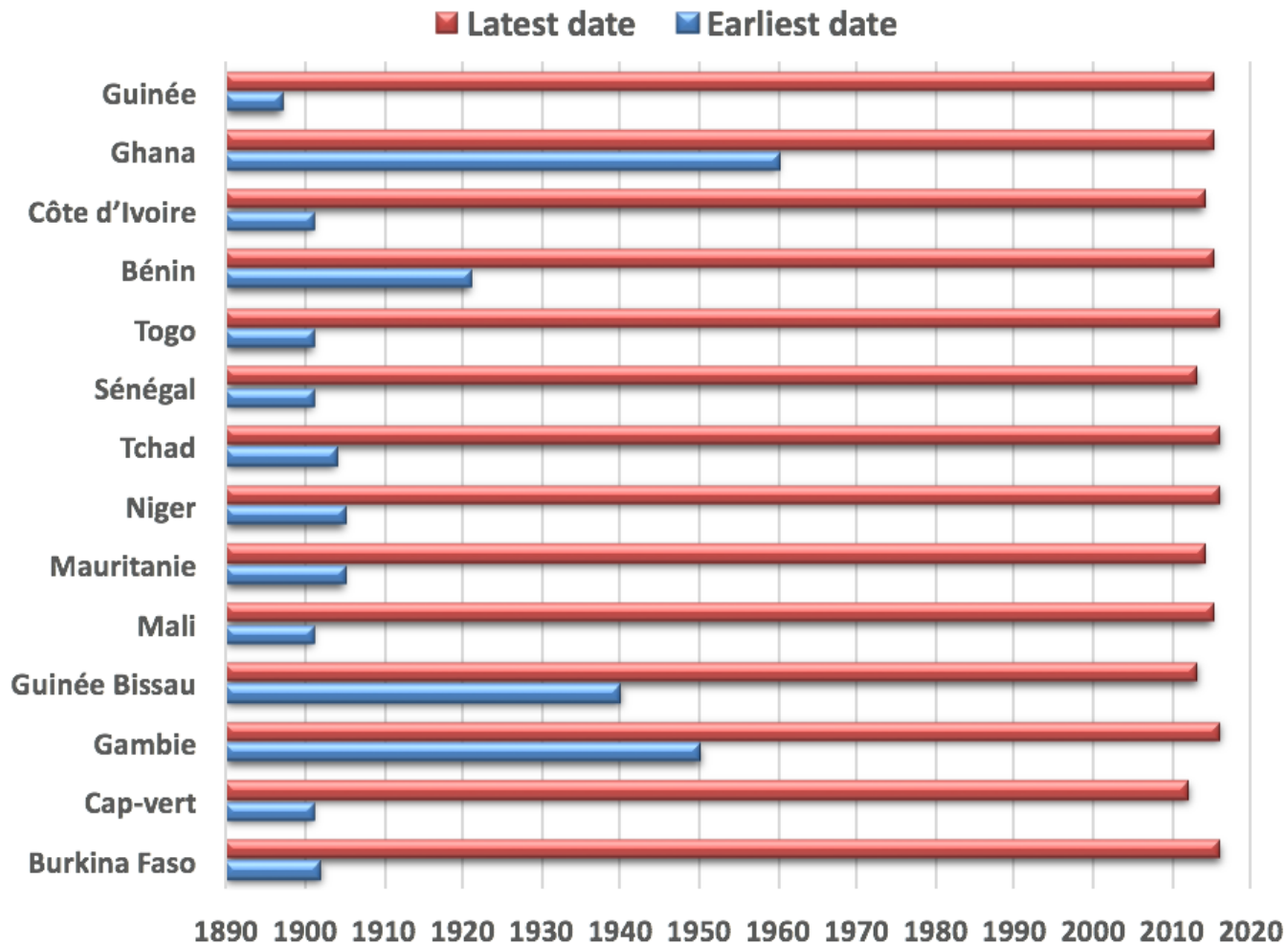
in-situ hydrological measurement network



Around 250 hydrometric stations

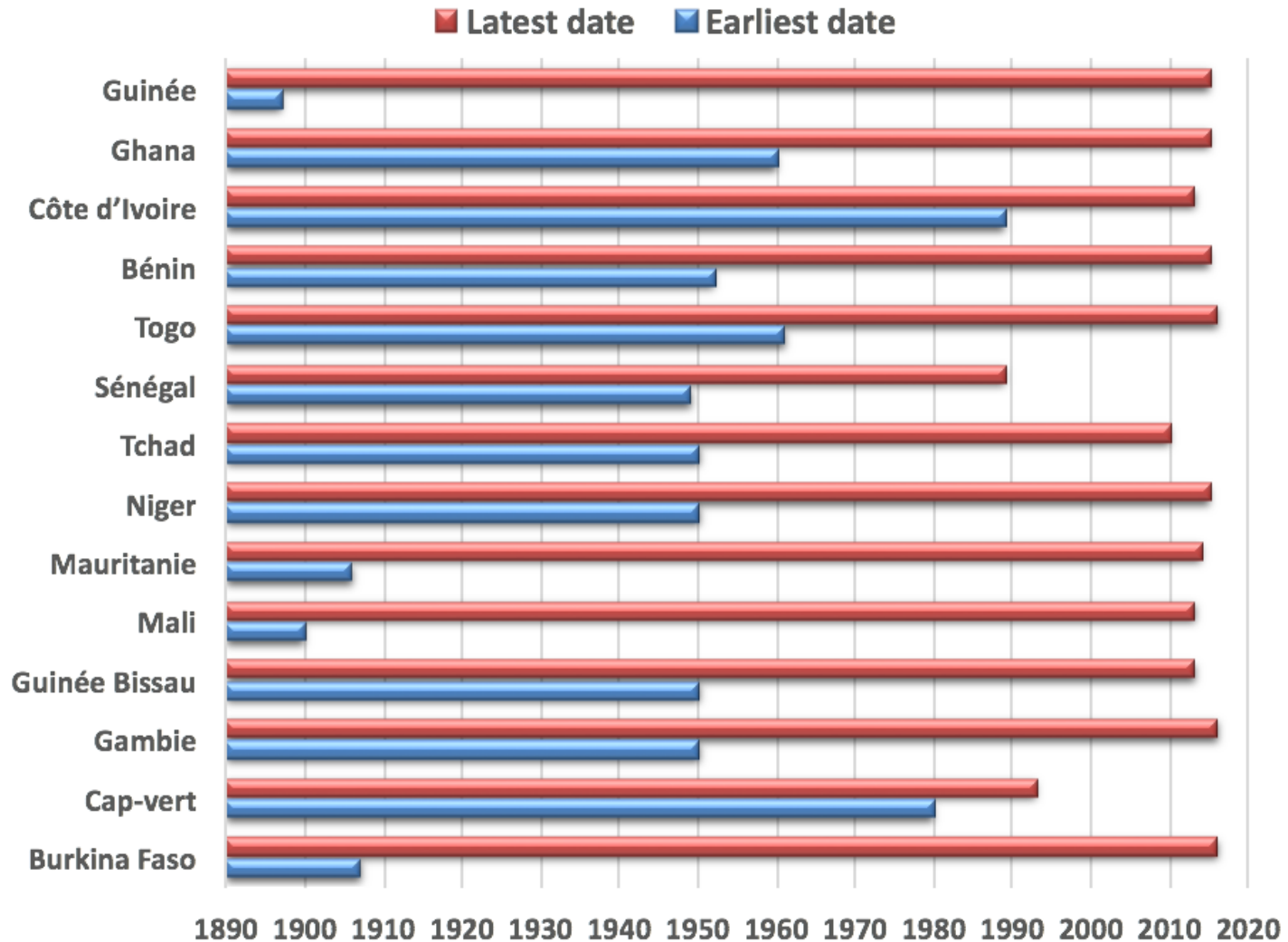
ARC REGIONAL CLIMATE DATABASE

PRECIPITATION



ARC REGIONAL CLIMATE DATABASE

TEMPERATURE



ARC DATA SHARING POLICIES

Climate data are free of charge for scientific purposes (researchers, education)

ARC have no right to share the hosted countries data without their agreement

ARC staff are allow to use the hosted climatic data but first he has to sign a user's charter (control and provide guidance for the use of data)

Non-ARC staff require specific permission to access the data. The countries covered by the requested data should be informed and they have to agree for sharing before ARC step forward to fulfill the request.

The MoU on climate data sharing initiate since 2011 is still an ongoing process (Not yet sign by the NMHS from countries members of CILSS).

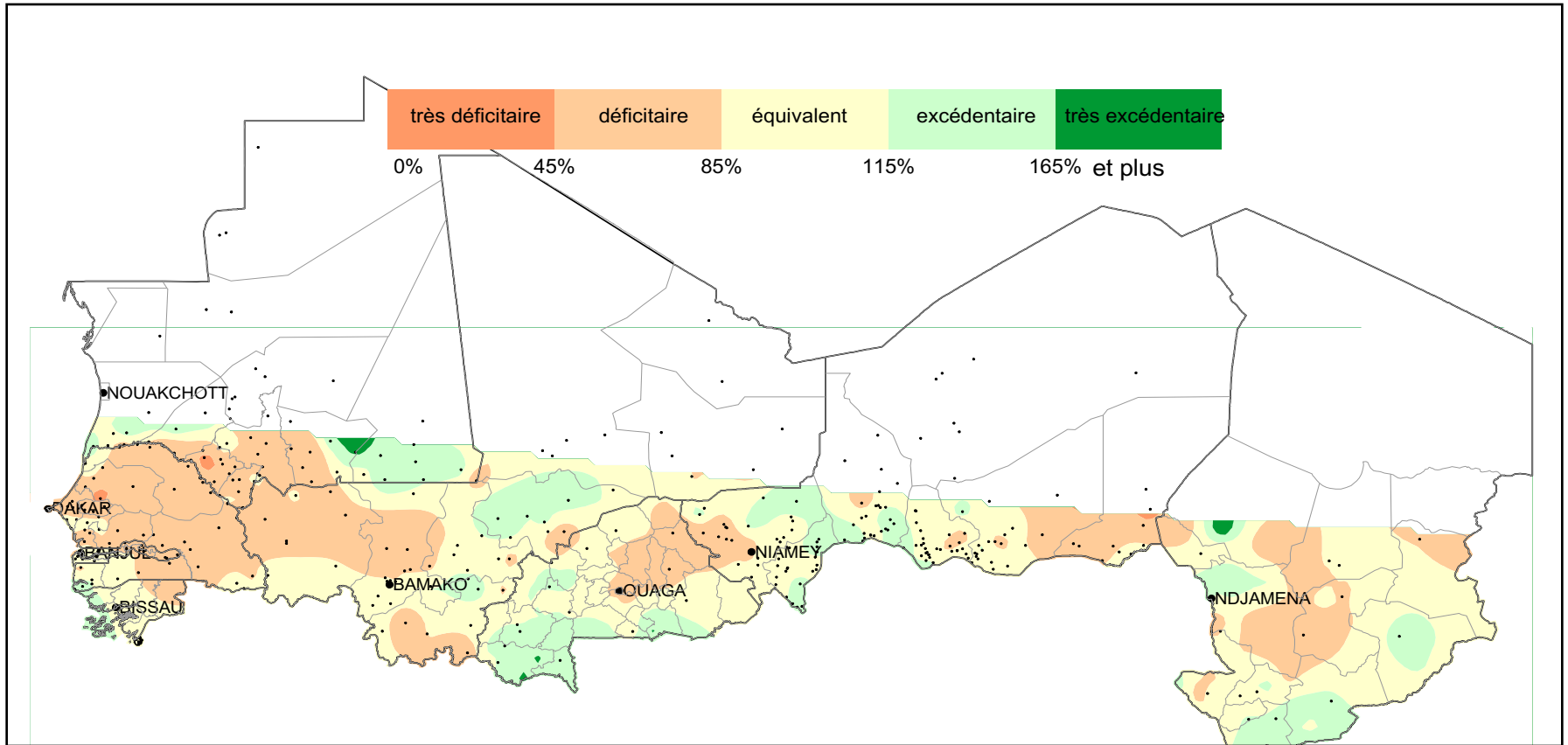


Goal of ARC : Production and Dissemination of information to end-users (policy makers, NTS, NGO, private sectors, farmers, etc.)

- 10-days, monthly, seasonal and special bulletins
- Papers (Bulletins), Radio and television broadcast
- Web : **www.agrhymet.ne**

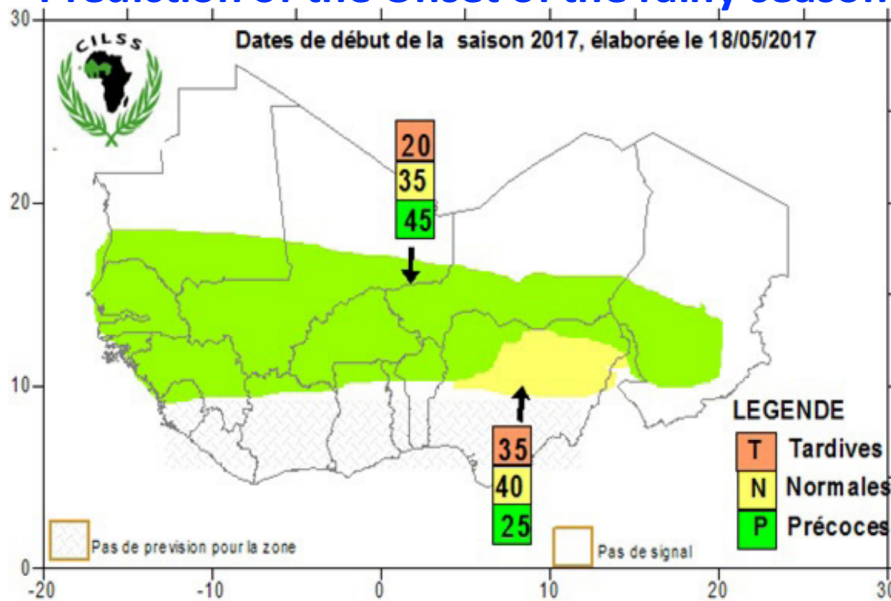
PRODUCTS AND INFORMATION MANAGEMENT AT REGIONAL LEVEL

Rainy season Monitoring and Early Warning

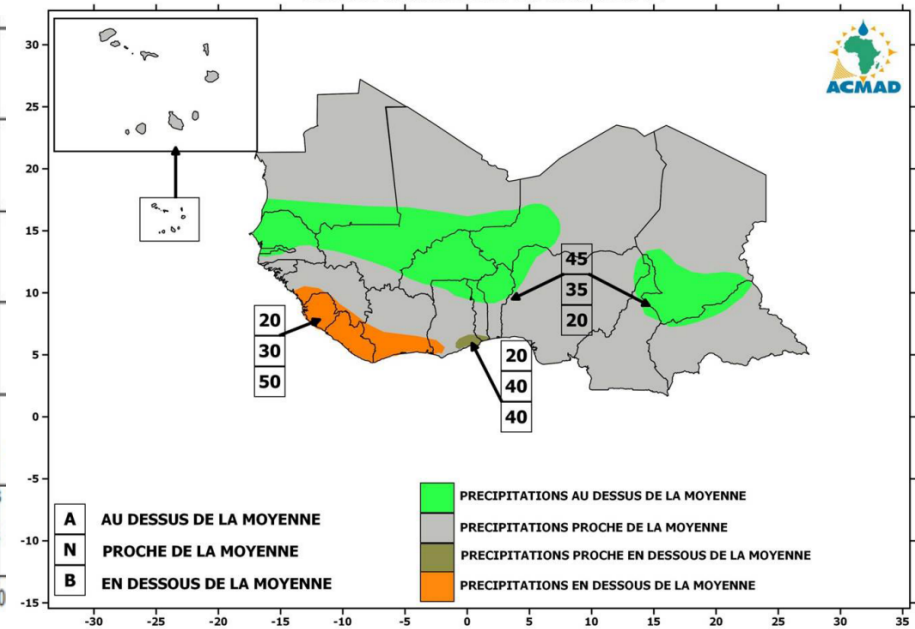


West Africa RCOF (PRESASS-2017)

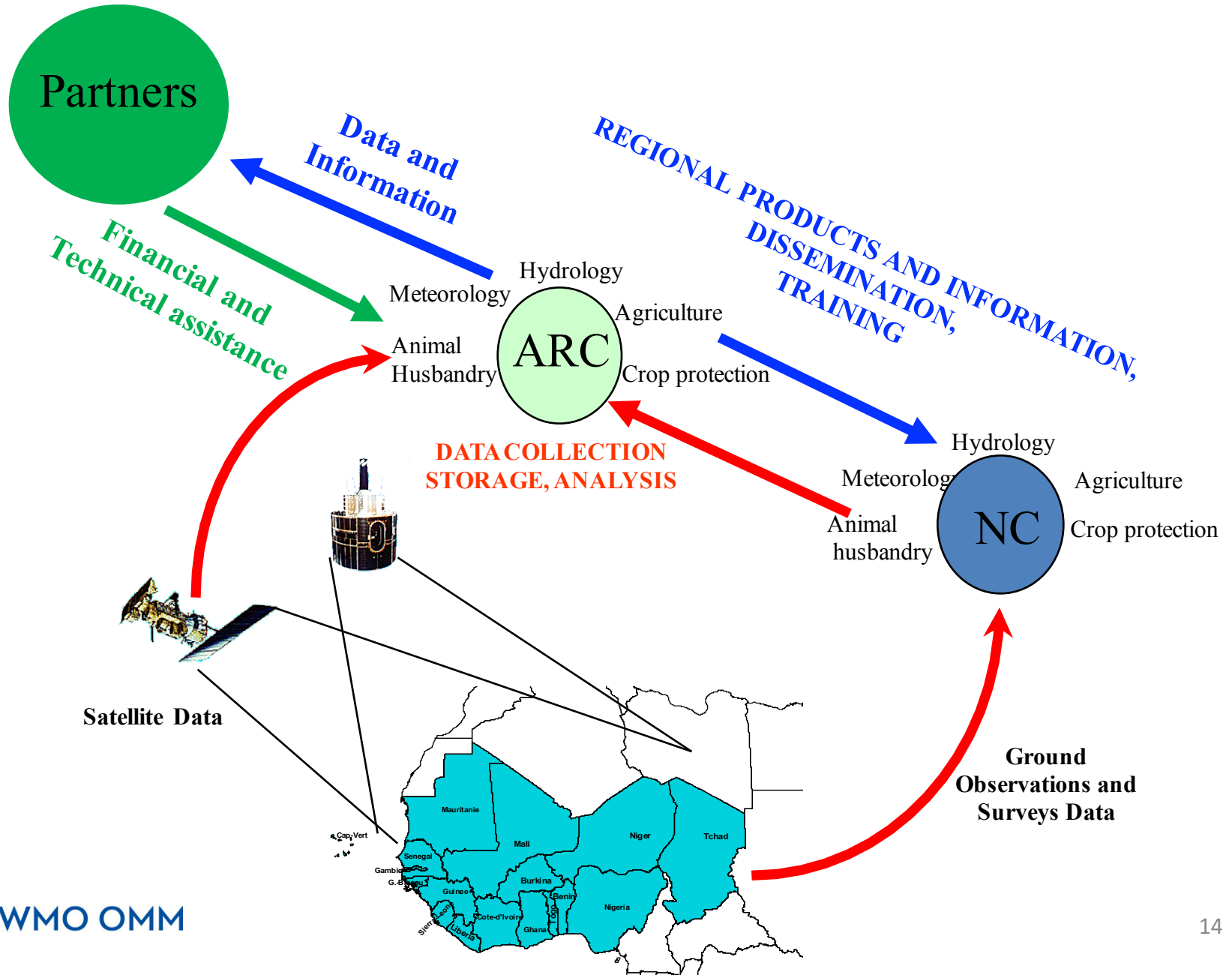
Prediction of the Onset of the rainy season



Prediction of JAS rainfall



PRODUCTS AND INFORMATION MANAGEMENT AT REGIONAL LEVEL



NEEDS

- ✓ Enhance infrastructure (hardware, software, internet) and human capacities to collect data, produce, organize and effectively deliver climate products at regional level.
- ✓ Make RCCs effective within ECOWAS (ARC is on the way)
- ✓ Make effective the MoU on data sharing: involve WMO in order to speed up the process with the NMHS
- ✓ Optimization of the regional climate observation network
- ✓ Improve data quality control at regional level (merging data from differentes sources are not free of errors)
- ✓ Enhance the capacity of the NMHSs in data collection, storage, analysis and dissemination of the climate data.



Thank you Merci



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