



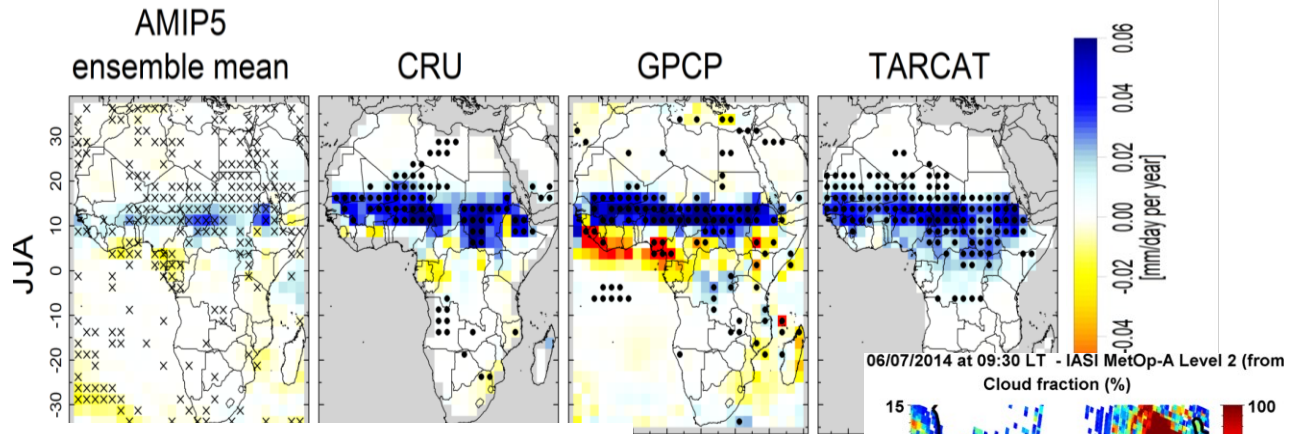
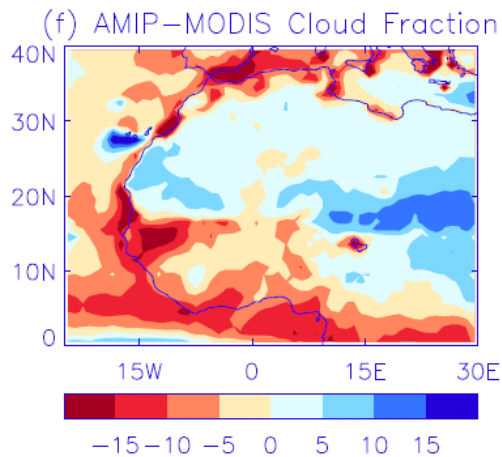
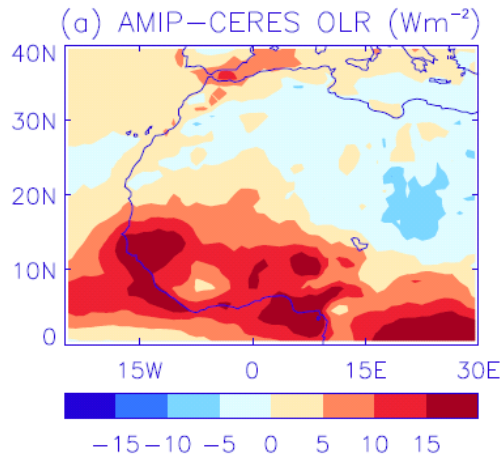
# DACCIWA

Dynamics-aerosol-chemistry-cloud interactions in West Africa

## **Use of Satellite data within DACCIWA**

Richard Allan | University of Reading | *Toulouse 2015*

# Primary use of satellite data



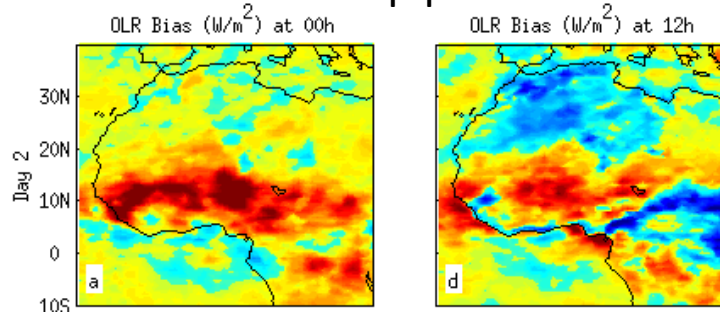
[Maidment et al. \(2015\) GRL](#)

**Above: Rainfall Trends**

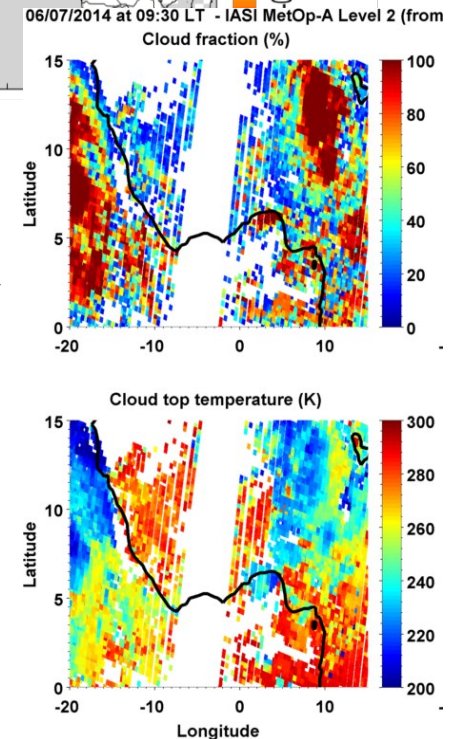
← climatology

field campaign →

**Below: time-step process evaluation**



[Liu et al. \(2014\) JAMC](#)



# Primary use of satellite data

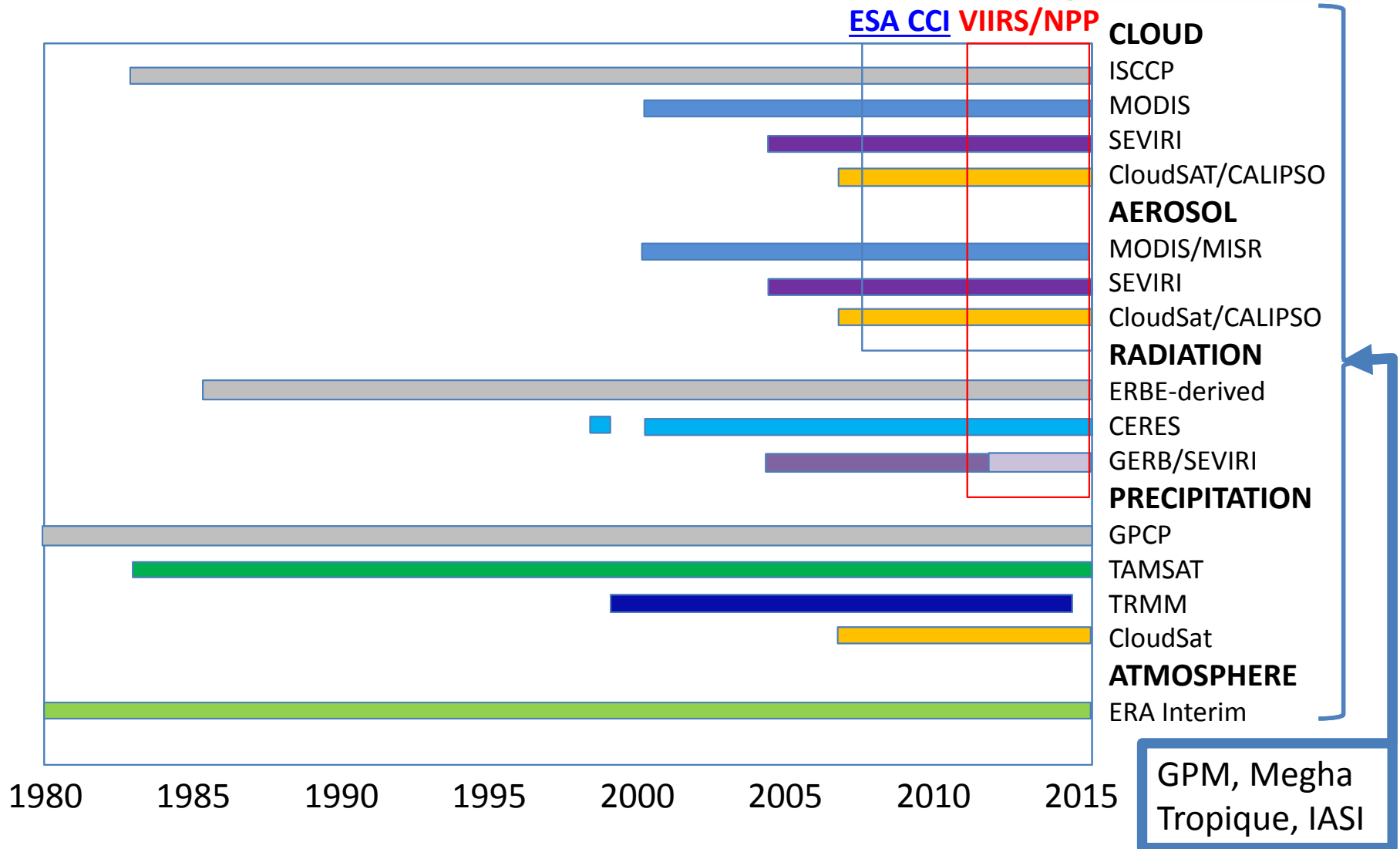


- **Modes of usage:**
  - Processed, climatology and variability to provide context
  - Swath-level data for detailed examination and process understanding
  - Near-real time instantaneous data to aid field campaign
- **Physical variables of interest**
  - Primary fields: Radiation, Cloud, Precipitation, Aerosol
  - Integrating fields: water vapour, energy/moisture transports, ancillary data (temperature, humidity, winds)

# Climatological data summary



DACCIWA



# Discussion



- **What satellite products are missing?**
- **What data can be shared across work packages?**
- **How can we facilitate the use of the satellite data for DACCIWA science?**
  - sharing, visualising/analysing e.g. [CIS tool](#)
- **etc...**