

Dynamics-aerosol-chemistry-cloud interactions in West Africa

Use of Satellite data within DACCIWA

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Primary use of satellite data



Modes of usage:

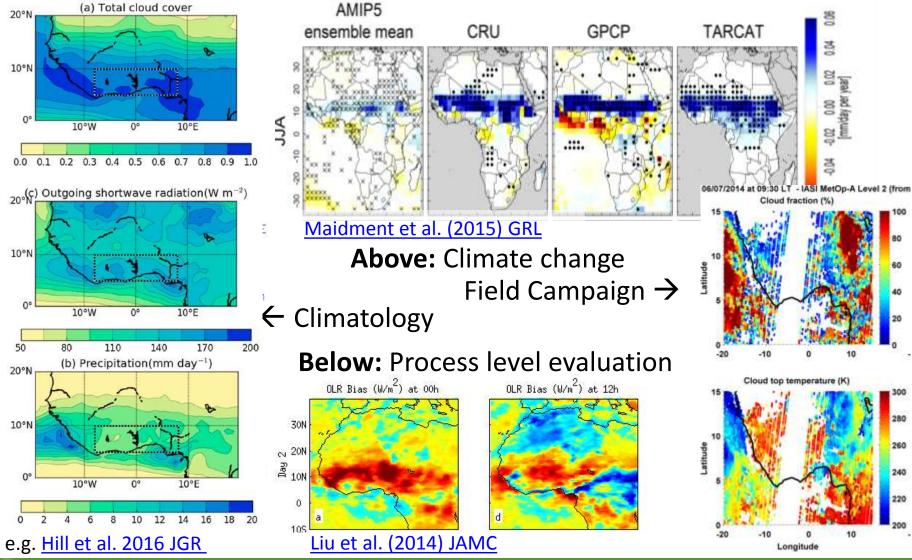
- Processed, climatology and variability to provide context
- Swath-level data for detailed examination and process understanding
- Near-real time instantaneous data during field campaign

Physical variables of interest

- Primary fields: Radiation, Cloud, Precipitation, Aerosol
- Integrating fields: water vapour, energy/moisture transports, anciliary data (temperature, humidity, winds)

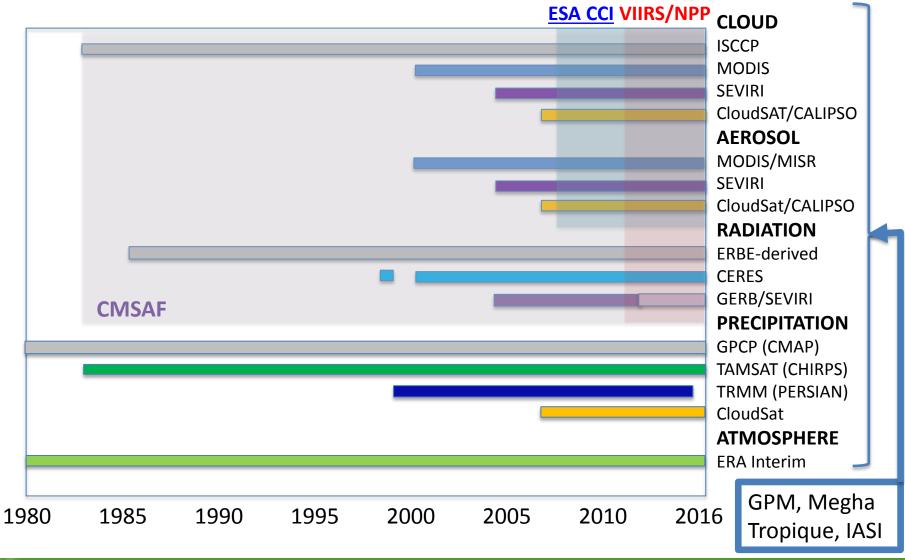
Primary use of satellite data





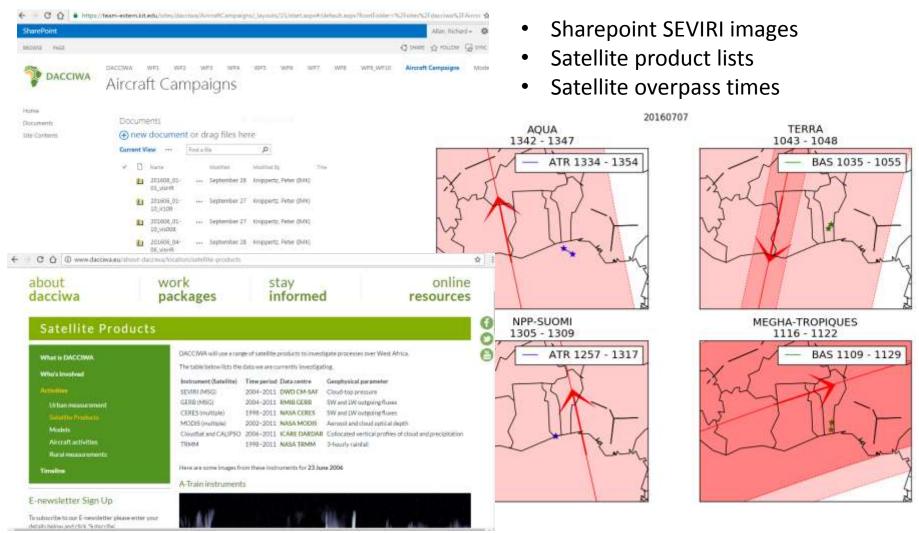
Satellite products summary





Example Activities





Discussion



- What coordinated satellite data activities would be beneficial? e.g. sharing/<u>visualisation</u>/communication
- What are the recommended satellite products for precip, radiation, LWC, IWC, cloud cover, aerosols etc.?
- Are there known problems with any products?
- Do we need to define some "gold standards" for people to use?
- Is there any point in having some data centrally or does everybody download their own copy?
- What specific DACCIWA-generated products will become available when?