



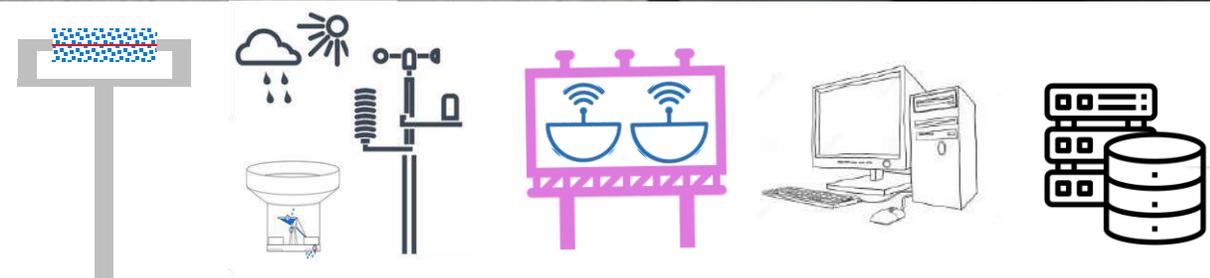
ACTRIS CCRES

Monitoring of stability of DCR reflectivity using disdrometers

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This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 871115

Take home message for DisDrometer

- **Instrumental / technical set-up** : follow the SOP requirement available on the CCRES web site (distance, orientation, axe)
- **Main configuration rules** : 1min sampling, UTC time zone, record all the variables + status
- **Acquisition mode recommandation** : either manufacturer software or ASD software (unlimited licence for ACTRIS-cloud site ?!) to record real-time data in ascii file.
- **Calibration** : inside/outside calibration, create a working group to follow the discussion to see what we have to do for CCRES network (frequency of calibration?, where?)

Take home message for Weather Station

- **Instrumental / technical set-up** : follow the SOP requirement available on the CCRES web site (distance, orientation, axe, tipping bucket rain gauge and see the OTT pluvio²)
- **Main configuration rules** : 1min sampling, UTC time zone, record temperature, relative humidity, wind speed and direction, and rain rate
- **Calibration** : every 6 months for tipping bucket rain gauge (detect rain event and follow the stability of the disdrometer in comparing the rain rate)
- **PID** : One for the Weather Station.

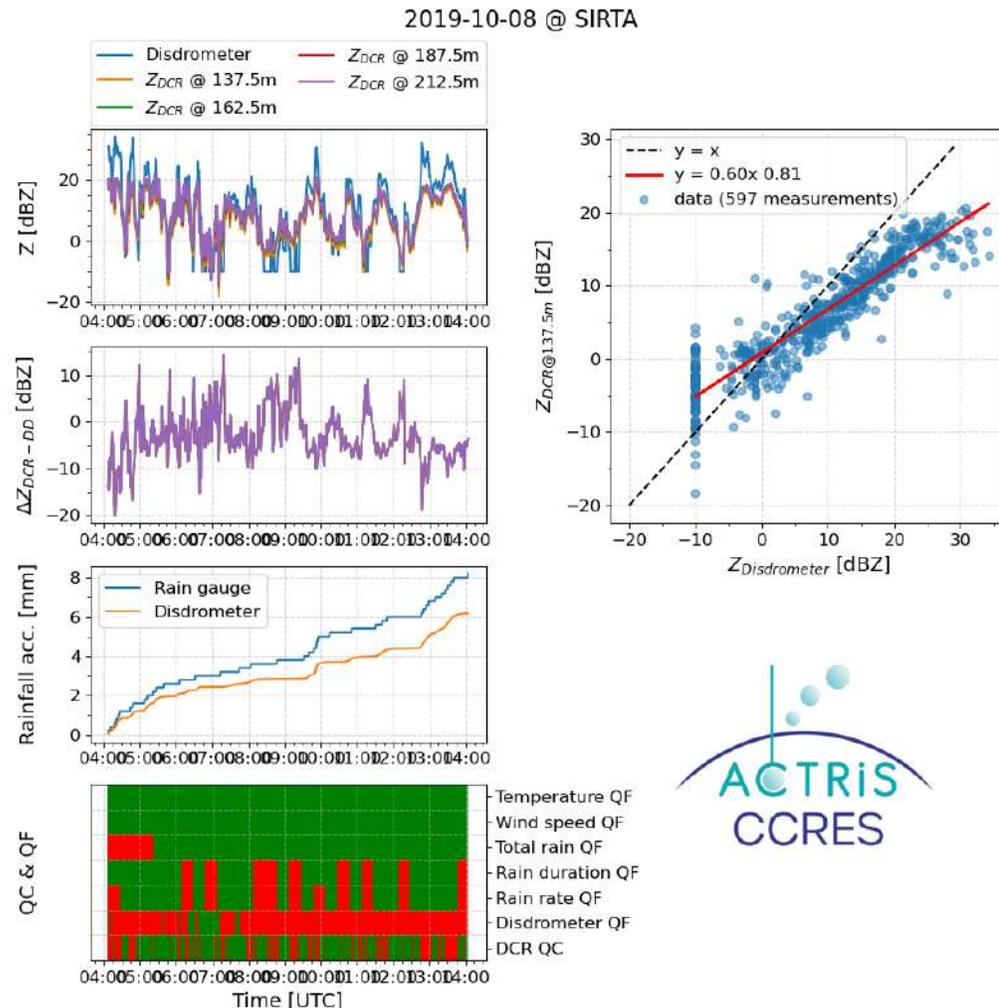
Take home message for ASCII to netCDF conversion

- **Disdrometer:**
 - **Use disdroDB API** : need people to take over the effort and maintain the DISDRODB project
 - **Or develop a new code** : to be discussed (reader, data and metadata naming)
- **Weather station** : development in progress (reader, data and metadata naming)
- **CLU Data Center** : the place to be for these ASCII to netCDF converters.

Take home message for DCR-CC monitoring

- **Z-DD processing:**
 - Input data : L0-DD netcdf file, output L1-DD netcdf file
 - Version 1 is OK to apply the methodology to JOYCE dataset into local server.
 - Version 2 will be installed at CLU-DC
- **CLU-DC** : Merge L1-DD/L0-WS/L0-DCR into one unique netcdf file and transfer it to **AERIS-DC**
- **AERIS-DC** : DCR-CC monitoring algo to produce
 - ✓ QuickLook
 - ✓ Alert
 - ✓ Flags

Example of automatic Real-Time Quick-Look available for NF



- Analyse the time shift between DCR and DD (link to the drop fall velocity) ;
- Analyse the evaporation process between surface and the 1st DCR gate

