

- Python based processing software under development
 - started with operational test run for Jülich
 - more stations will follow soon
- In the process of acquiring 2 additional RPG MWRs
 - low humidity (90 / 183 GHz)
 - replacement for operational MWR (G5 K / V Band)
- Organized workshop on MWR operation and calibration in Jülich (Bernhard Pospichal, Tobias Marke, Lukas Pfitzenmaier, Rainer Haseneder-Lind, Tobias Böck)



Discussion Points

- Implementation of MWR processing software into CloudnetPy (processing chain can run using existing retrieval coefficients)
- Setup of centralized calibration database (storage of absolute calibration LOG files)
- HKD monitoring

(define variables to be monitored and alert settings)

- ACTRIS conformity
 - (data levels, vocabulary)
- Data visualization
 - (dynamic quicklooks)

Next steps

- Test and implement processing software; request retrieval coefficients
- Start raw data transfer from pilot stations (SIRTA, JOYCE, Lindenberg, ...)
- Retrieval development plans / first ideas
 - Retrieval derivation with ERA5 input / compare to radiosonde based retrievals
 - Include passive channel of cloud radar (89 GHz)
 - Statistical retrieval method (Neural Network including auxiliary information)
 - Tests regarding shifts in center frequency / bandwidth (V-band)
 - Spectral consistency retrieval for off-zenith angles
 - MWR + IRT synergy retrieval for LWP
- Work on data quality assessment strategy (+ documentation) for labelling