

ACTRIS – Aerosol, Clouds and Trace Gases Research Infrastructure

<https://actris.eu/>

<https://cloudnet.fmi.fi/>

ACTRIS now supported by EU & GER



JOYCE National
Facility

Research Facility with long-term obligations to deliver QC/QA cloud data to the ACTRIS data center
→ Access for European researches
→ Build-up research initiatives



JOYCE Central
Facility

Provide long-term

- Expertise
- observation strategy
- processing code

for ACTRIS-wide operation of MWR

JOYCE as ACTRIS National Facility

- JOYCE to become funded as a "National Facility" from 2021 onwards
- Obligation to continue quality-controlled observations in the next 10-15 years
- Obligation to deliver data to ACTRIS data center
- Funding: significant enhancement of instrumentation (2021-2026)
 - Dual Frequency cloud radar with polarization
 - Cloud structure and life cycle
 - Precipitation formation
 - Multi-frequency Raman Lidar for temperature and humidity profiling
 - Sensor synergy (profiles, fluxes)
 - Data assimilation (regional observation network)
- 5-year post-doc position from summer/fall 2021