



Leibniz Institute for  
Tropospheric Research

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## Martin Radenz

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### Martin Radenz

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Germany

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### Function

PhD student

### Department

Remote Sensing of atmospheric processes

### Group

Ground-based Remote Sensing

### Research areas & research interest

- Hemispheric contrasts in the effect of aerosols ice formation in stratiform mixed-phase clouds
- Development of data processing software
- Conducting field campaigns

### Current projects

- ACTRIS / CLOUDNET
- DACAPO-PESO

### Instruments (constructed and supervised)

- OCEANET
- LACROS

### Curriculum Vitae

*Academic qualification*

Time frame	Title	Affiliation, place
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2011-2014	B.Sc. Meteorology	University of Leipzig
2014-2017	M.Sc. Meteorology	University of Leipzig
2017-2021	PhD student	TROPOS, Leipzig

*Master thesis:* Observation of in-cloud vertical air motion with a combination of Doppler lidar, cloud radar and radar wind profilers (pdf)

*PhD thesis:* Contrasting the aerosol effect on stratiform mixed-phase clouds in the northern and southern hemisphere

#### Field campaigns

- **R/V Polarstern expeditions**  
Operation of OCEANET during PS98 (April-May 2016, Atlantic), PS106 (June-July 2017, Arctic) und PS113 (May-June, Atlantic)
- **DACAPO-PESO at Punta Arenas, Chile**  
Participation in the planning and preparation of the multi-year deployment of LACROS and on-site operation (Nov 2018 - March 2019 and June 2019).
- **MOSAIC drift onboard R/V Polarstern**  
Operation of OCEANET and support for team ATMOS during Leg 3 (Feb - June 2020)

#### Publications

all publications

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