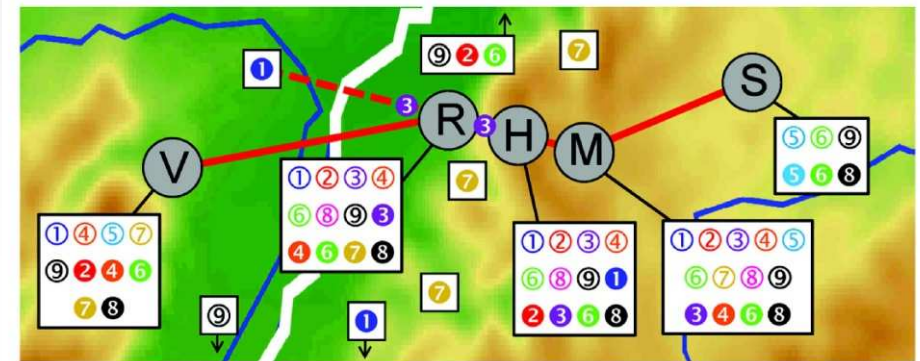
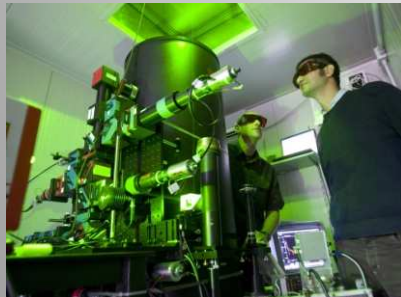




# COPS (Convective and Orographically-induced Precipitation Study)



**Goal:** Advance the quality of forecasts of orographically-induced convective precipitation by 4D observations and modeling of its life cycle



Airborne lidar platforms: DLR Falcon (①③) and SAFIRE Falcon (①)  
2 mobile Doppler-On-Wheels (②②)

**Legend:**

① Water Vapor Lidar	④ C-Band Polarization Radar
② Temperature Lidar	⑤ Precipitation Radar (other)
③ Wind Lidar	⑥ Micro-Rain-Radar
④ Aerosol Raman Lidar	⑦ Wind Profiler
⑤ Ceilometer	⑧ Wind-Temperature-Radar
⑥ Microwave Radiometer	⑨ Energy balance station
⑦ FTIR Radiometer	⑩ Sodar
⑧ Cloud Radar	⑪ GPS receiver
⑨ Radiosonde station	

Bull. Amer. Meteor. Soc. **89**(10), 1477-1486, DOI:10.1175/2008BAMS2367.1.

# COPS Overview

## **This workshop:**

- 30 talks and 38 posters
- 38 CI, 13 ACM, 8 PPL, 9 DAP including AMF, TRACKS, EUFAR, and D-PHASE contributions
- Scientists from 8 countries involving 12 universities, 8 research centers, and 4 forecast centers.

## **In general:**

- 32 externally funded projects (mainly COPS-France, COPS-UK, DFG)
- Master theses: 2
- Diploma theses: 6
- PhD theses: 17
- Postdocs: 19



# COPS Publications

- Refereed publications: 12
- Conference publications: 57
- Next highlight: Special Issue on QPF of published in

**Meteorologische  
Zeitschrift**



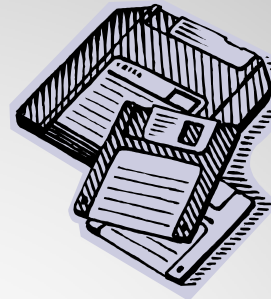
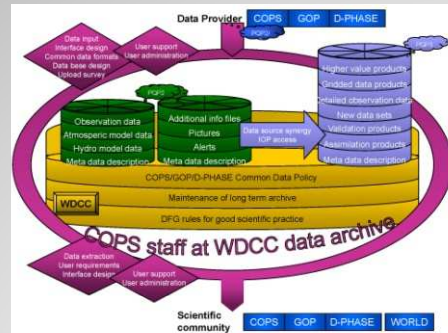
with 7 COPS-related papers

see [www.metzet.de](http://www.metzet.de)

- COPS publication data base in preparation



# Topics to be discussed



- Foster international collaboration
- COPS research network

Optimize COPS/GOP/D-PHASE data archive

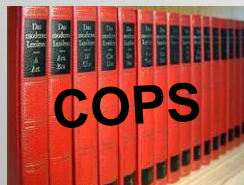
- Share data and methodologies
- Develop synergetic data products

Finalize instrument validation

Process studies  
Data assimilation  
Model evaluation  
Predictability



Use the acquired knowledge to extent research after 2010 supported by ESF and WWRP



Joint research to advance weather and climate research

