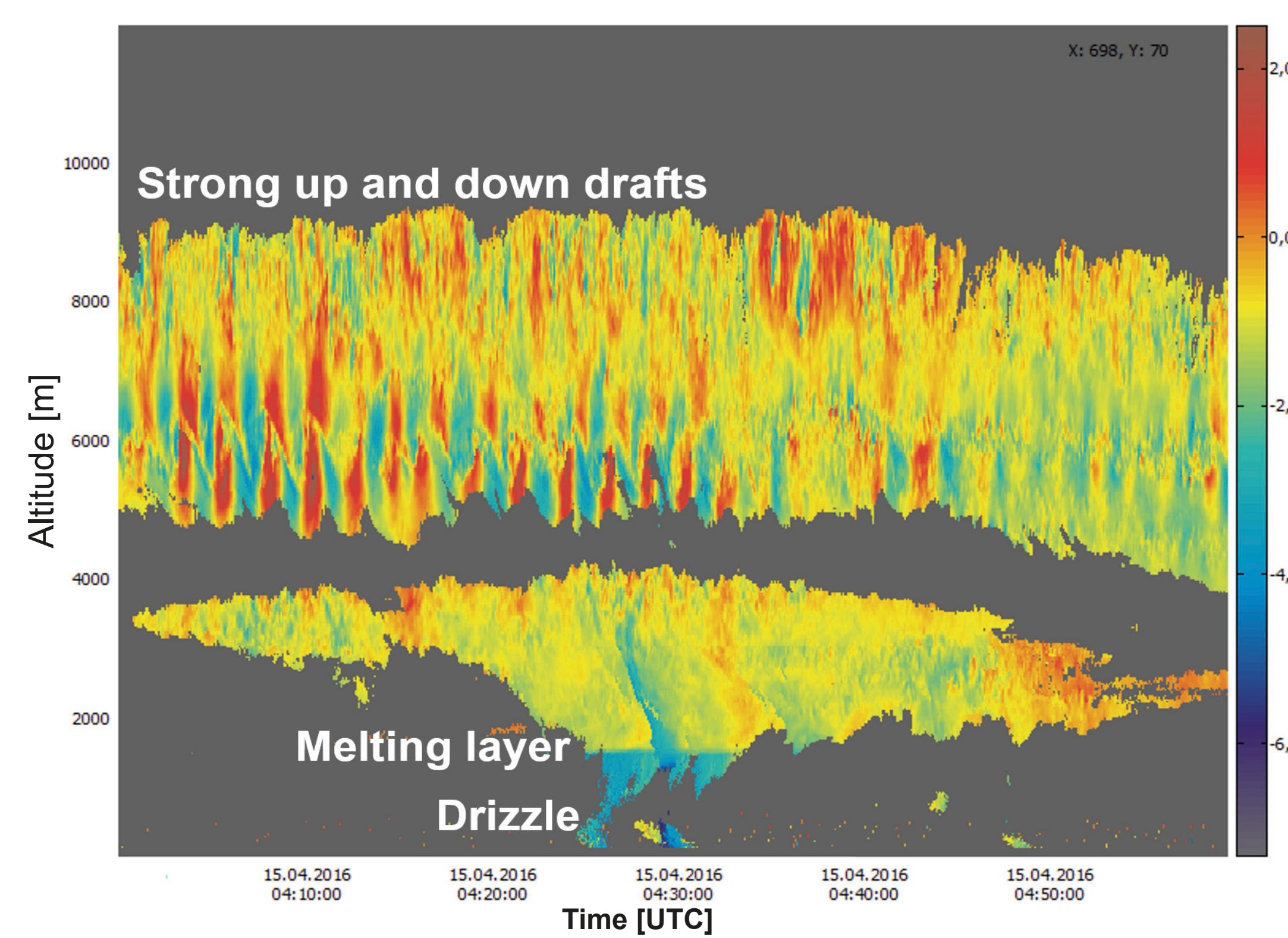
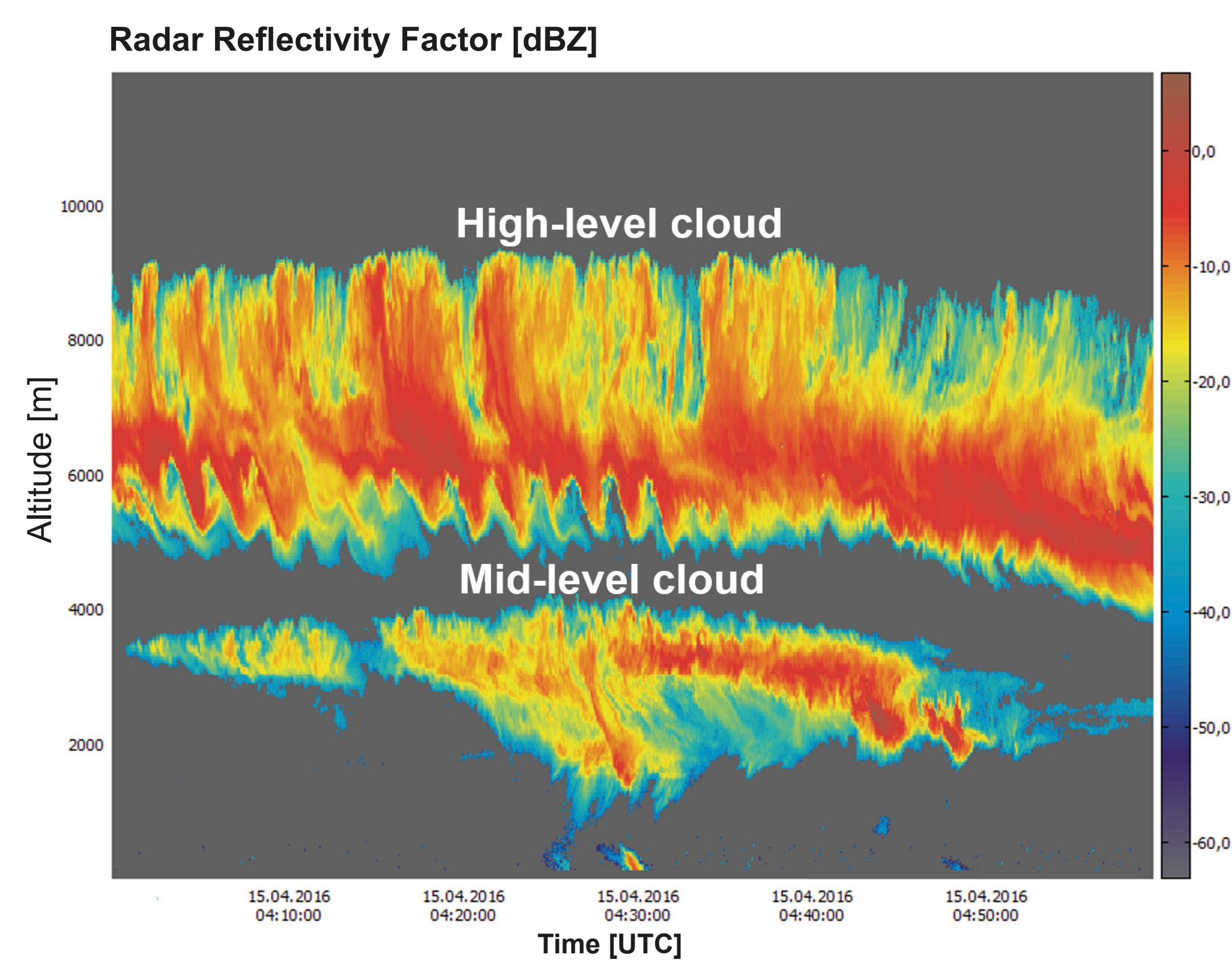


**94 GHz Cloud Radar with Doppler and Polarimetric Capabilities**

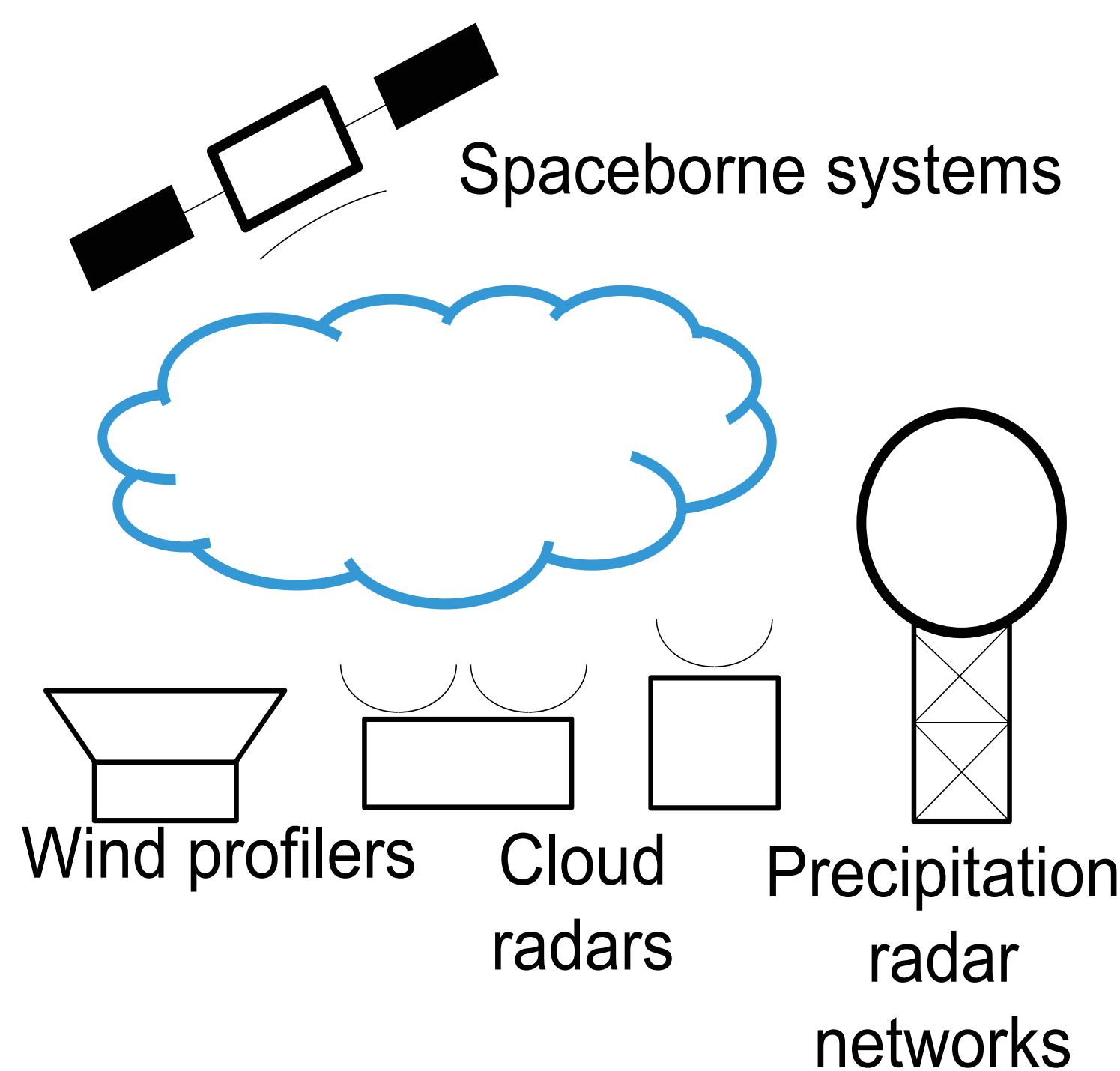


- **Low cost** cloud radar with embedded 89 GHz passive channel
- Frequency modulated continuous wave (FMCW) technology
- Solid state transmitter with 1.5 W continuous power
- Range resolution down to 1 m
- Rain/snow mitigation system with dew blower (4000 m<sup>3</sup>/hr)
- High sensitivity (-45 dBZ @ 5 km, 30 m resolution, 1.7 s averaging)
- Small size and low weight
- Built-in weather station

**Observation Example**



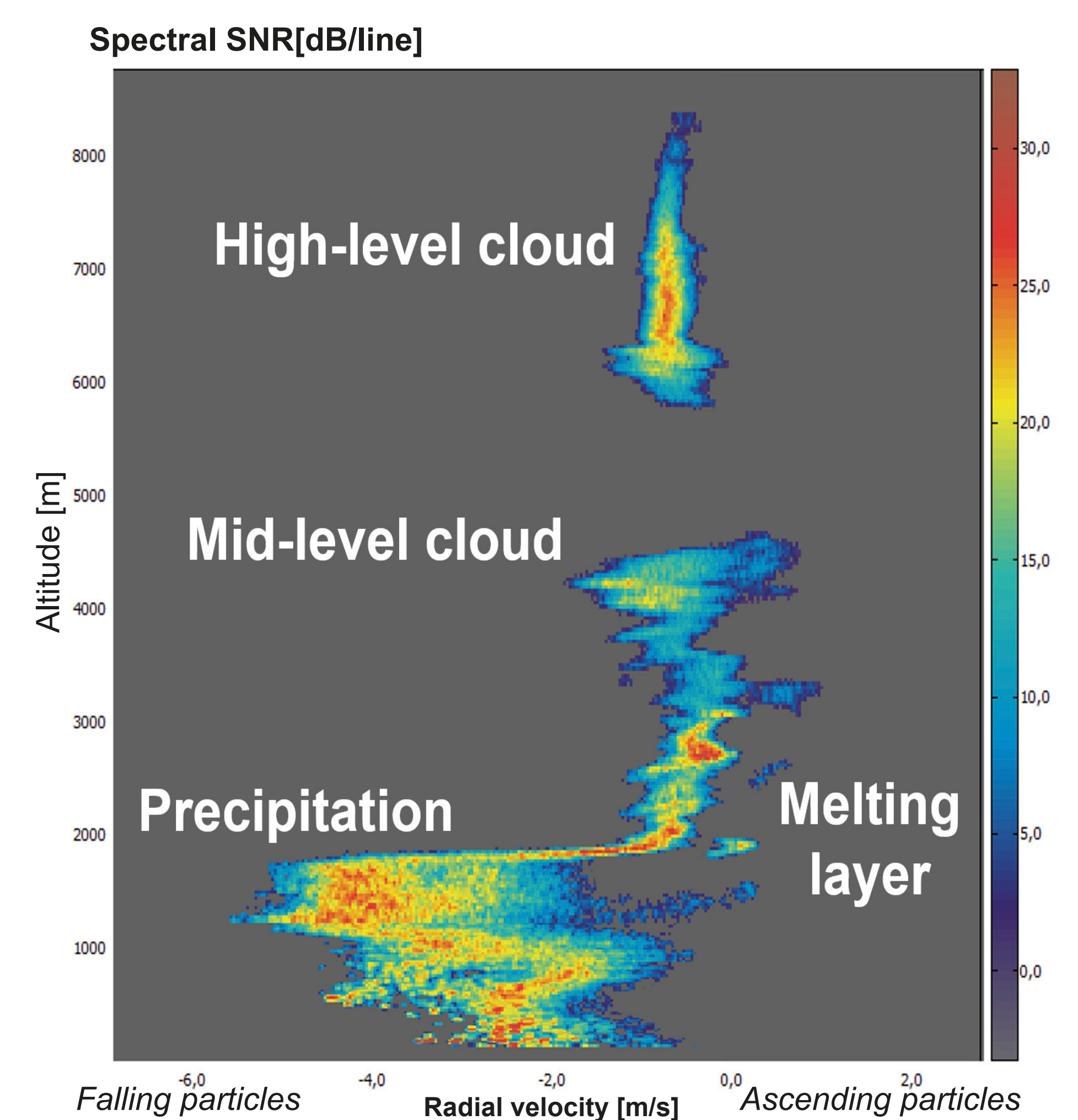
**Applications**



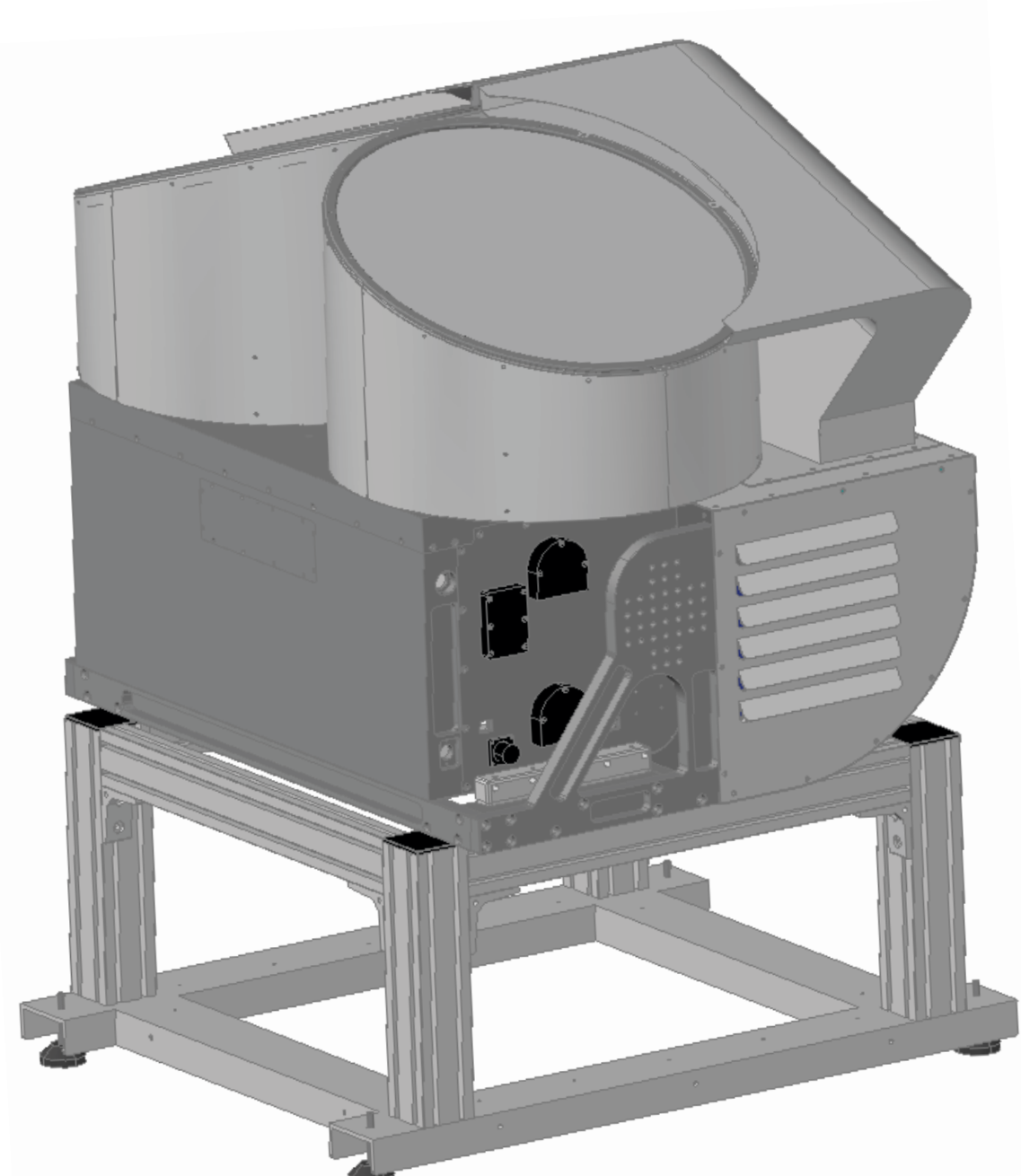
As the radar is absolutely calibrated with the same technique as passive radiometers, it can be used to calibrate radar systems of other types. Having nearly the same frequency as many satellite-based cloud radars, the RPG-FMCW-94 is a good reference for data evaluation.

High resolution Doppler spectra represent valuable information for quantitative precipitation estimates and characterization of cloud particles.

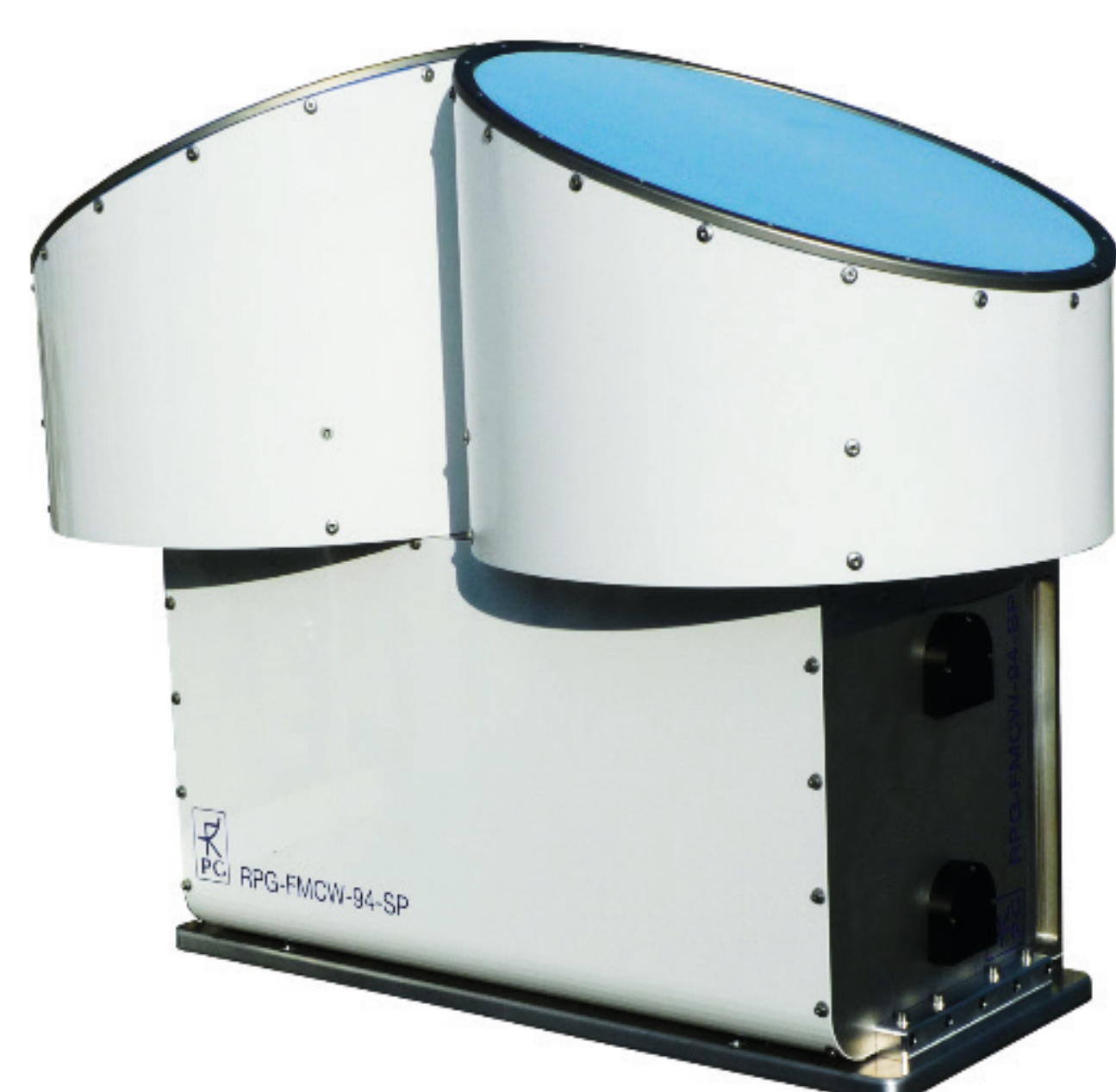
A high spatial resolution is of benefit for tracking an evolution of a particle's population from cloud top to cloud bottom.



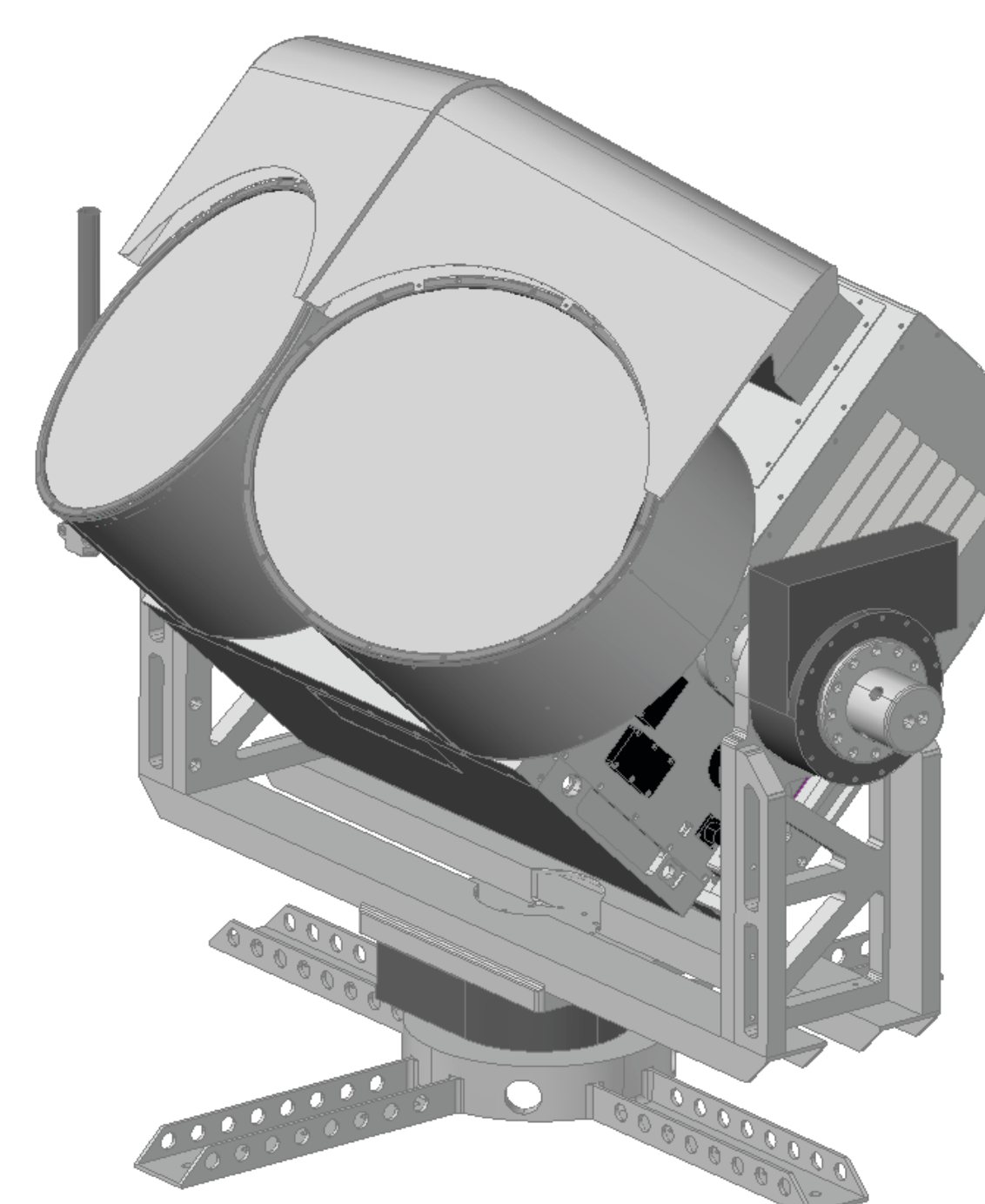
**Configurations**



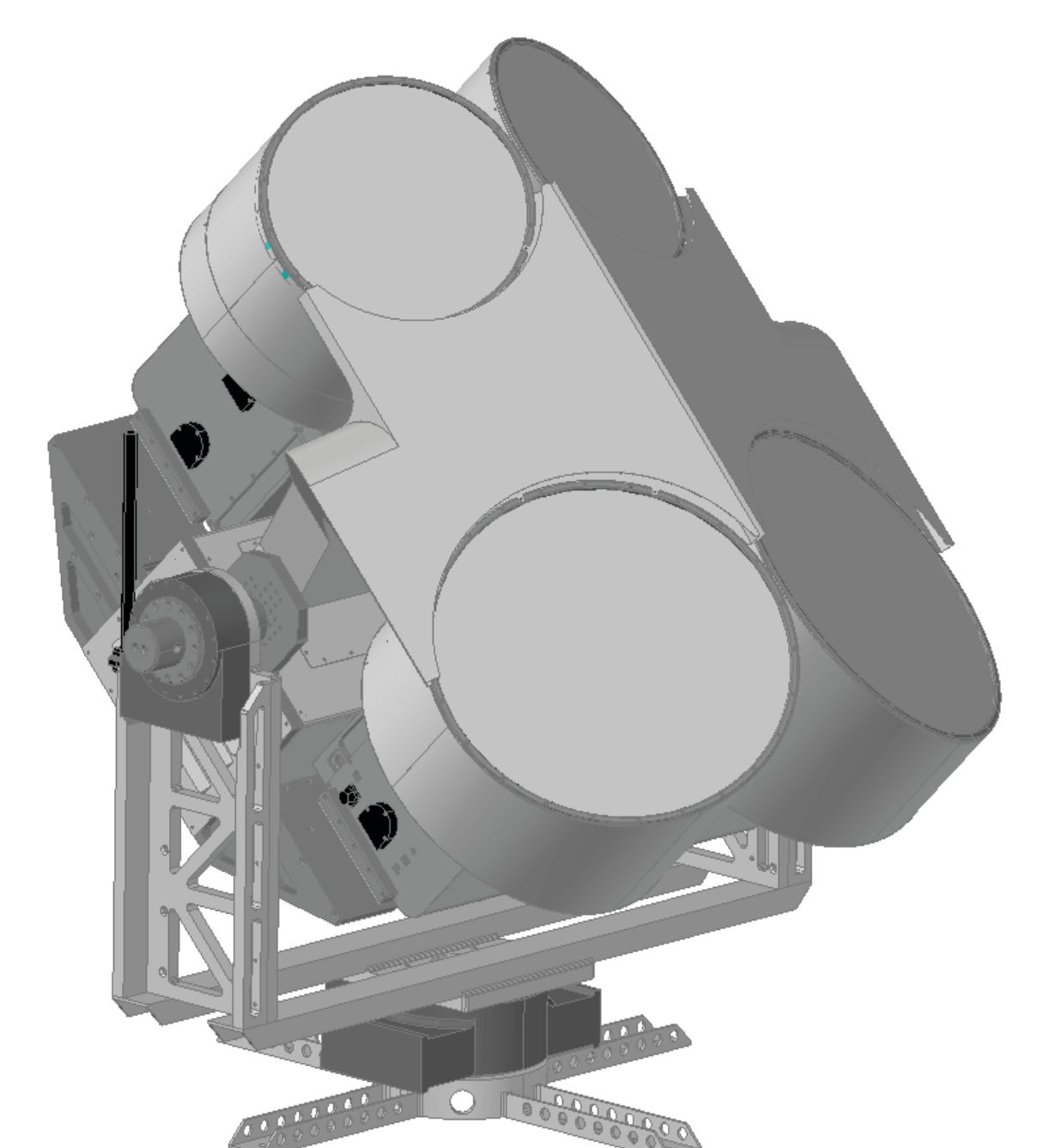
**Vertically pointed single-pol or LDR-mode**



**Mobile version**



**Scanning single-pol or STAR-mode**



**Dual wavelength platform**

