

MiRAC – Microwave Radar/Radiometer for Arctic Clouds (for vertical profiling of ice and liquid water)



Radar

- Active component @94 GHz
- Passive component @89 GHz
- **F**requency **M**odulated **C**ontinuous **W**ave (FMCW)
- High vertical resolution (< 20 m)
- Doppler spectra

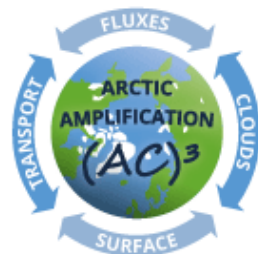
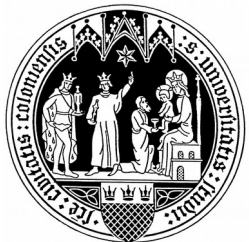


Radiometer

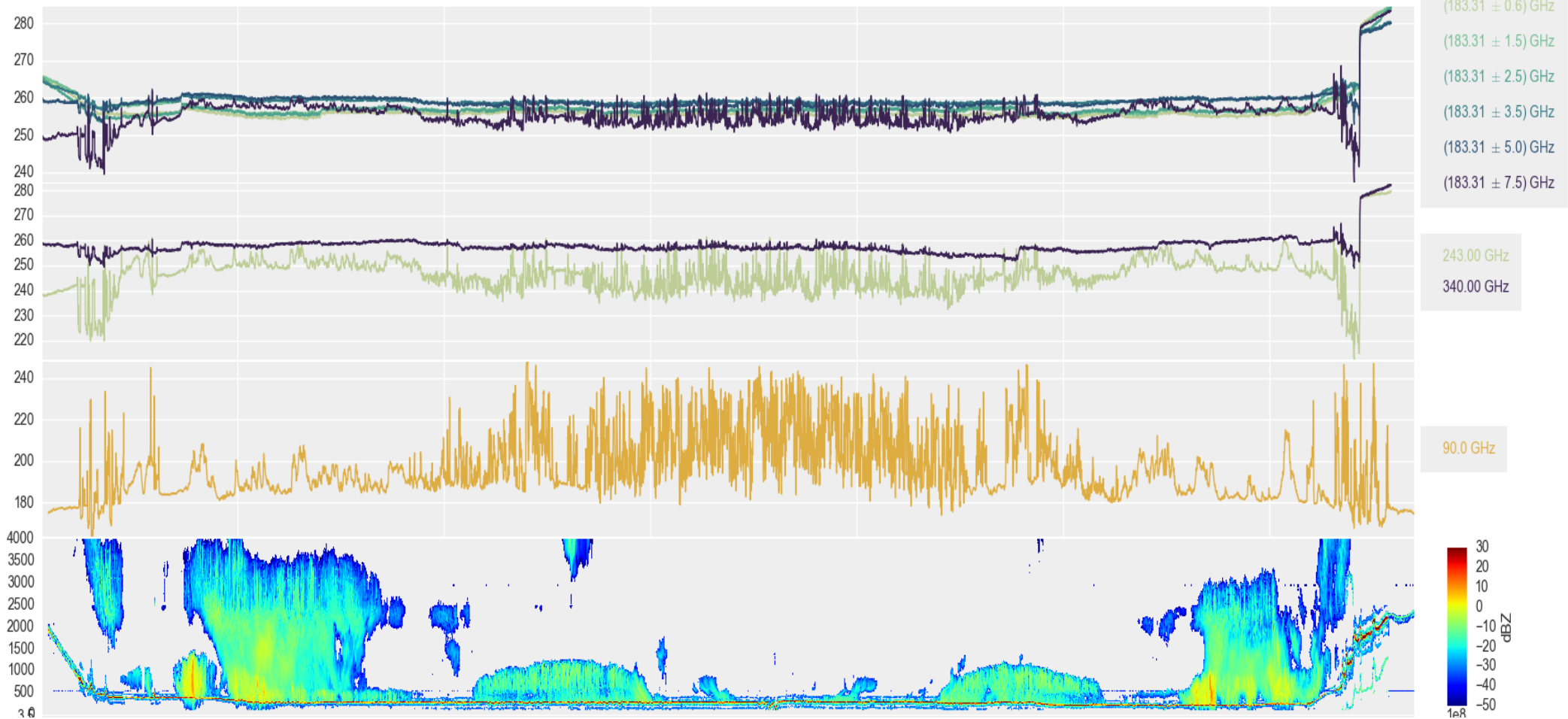
- Only passive components
- 6 channel water vapor profiler @183.31 GHz line
- 243 GHz and 340 GHz channel for cloud ice



- Humidity profiles, integrated ice water content, liquid water path ↔ vertical structure of cloud
- Hydrometeor information



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