RAD4ALP, THE NEW SWISS DOPPLER POLARIMETRIC WEATHER RADAR NETWORK: DATA QUALITY AND FIRST RESULTS

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Salient Aspects
- Full access to source code
- 2 new radar sites: Better Coverage
- ROEL: Better Sensitivity
- Polarimetry: Better Accuracy
- Central Processing: Increased Flexibility
- Parallel Processing chains

Polarimetry in Clutter Suppression
- DT Filter adapted to use polarimetry
- New criteria based on thresholds on $\rho_{hv}$, Zdr in low Zh and textures of $\rho_{hv}$, Zdr, $\phi_{dp}$ and Zh

Monitoring
- Sun hits, polarimetric variables and Zh inter-comparison used
- Good stability, No radome influence, good antenna characteristics

Conclusions:
- Monitoring Tools implemented
- Clutter Suppression improved without impacting QPE
- Data quality satisfactory

Outlook:
- Use polarimetry in QPE
- Hydrometeor classification