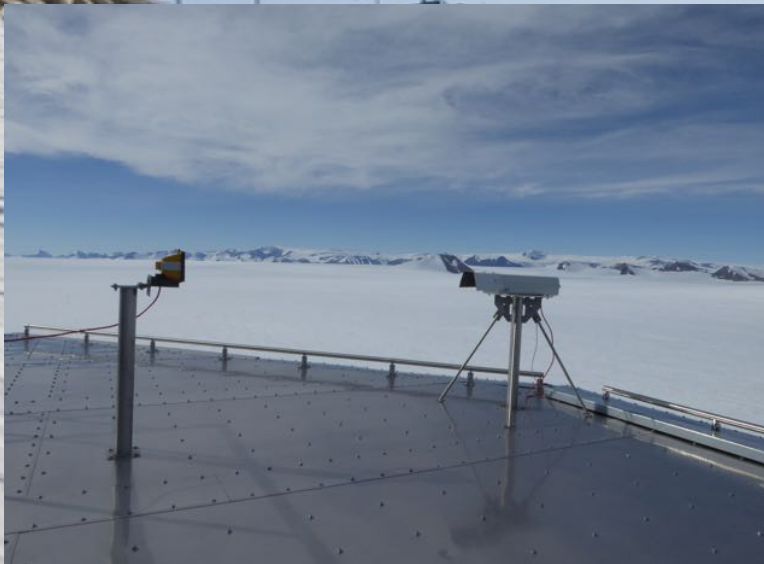
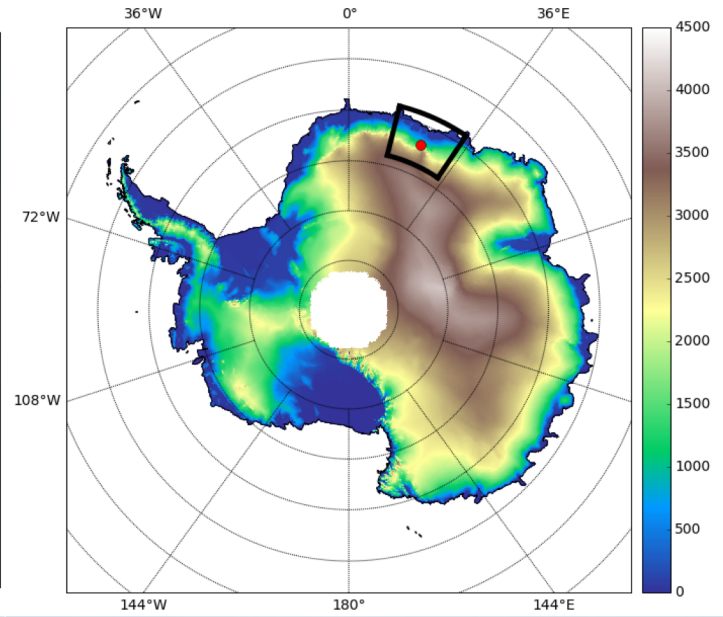
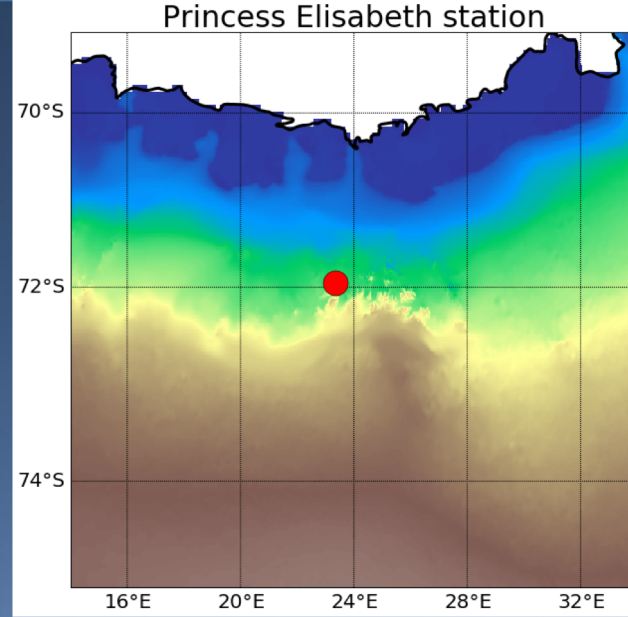
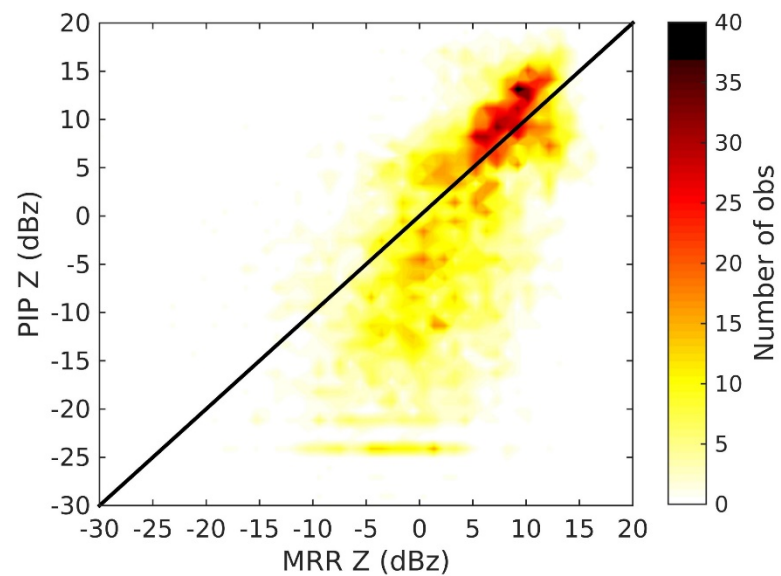
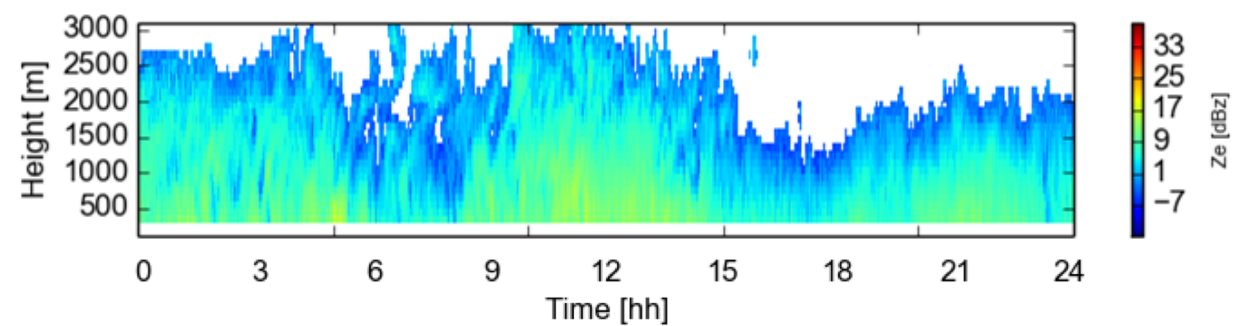
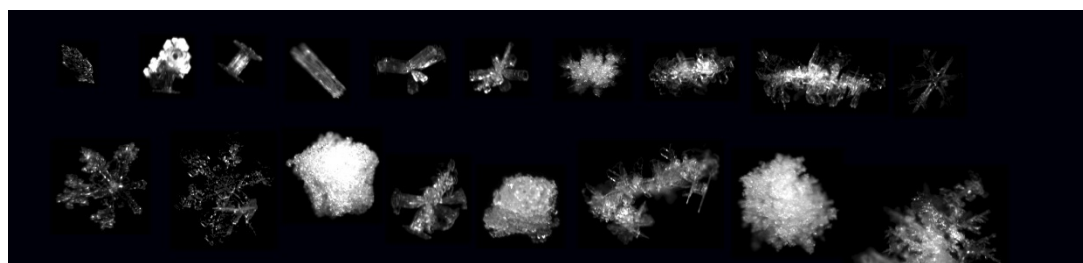
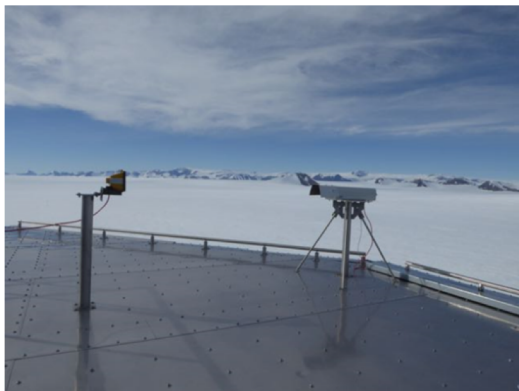


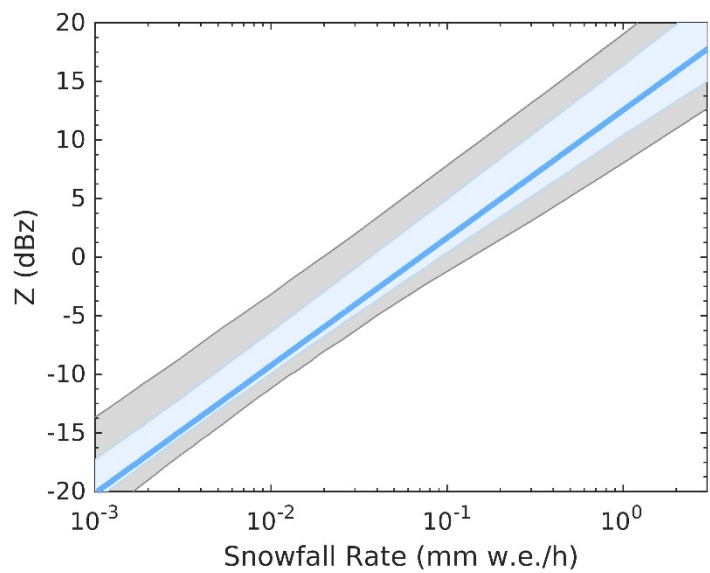
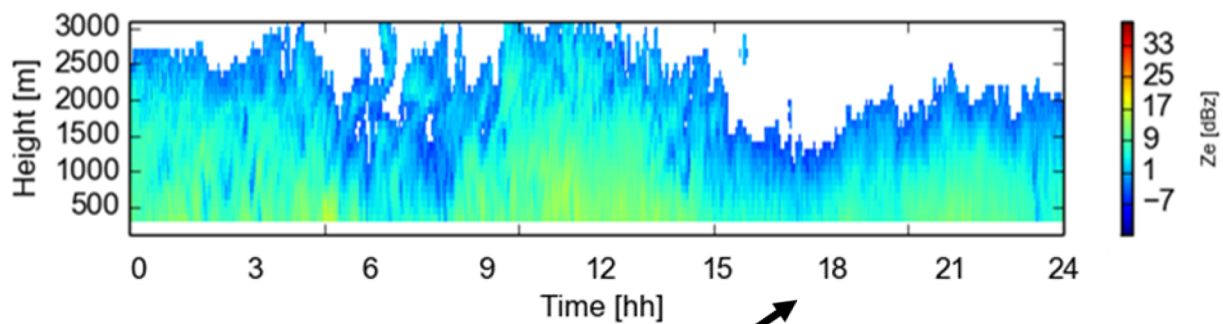
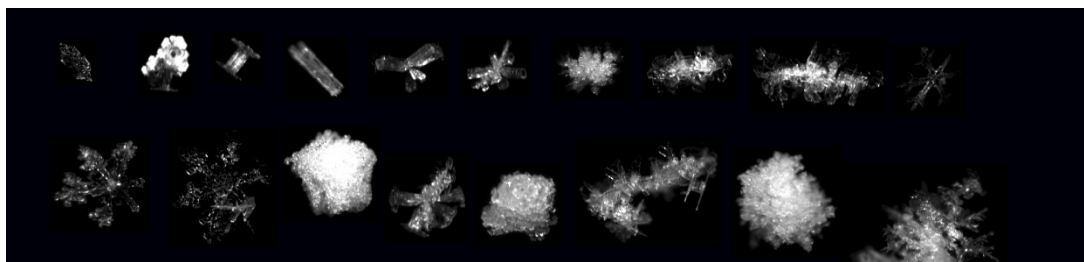
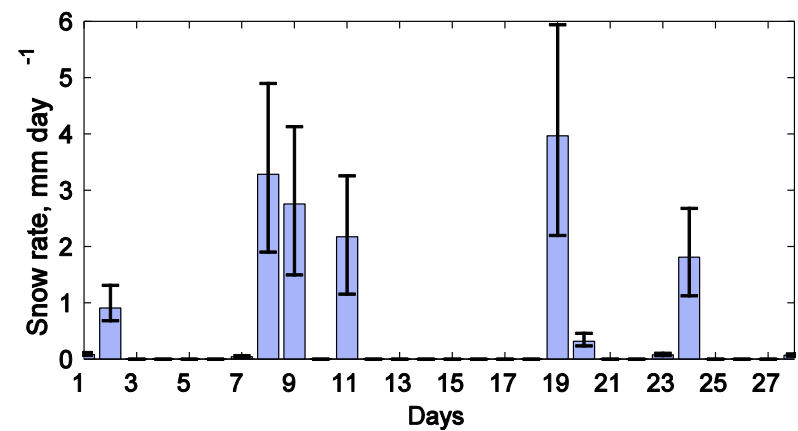
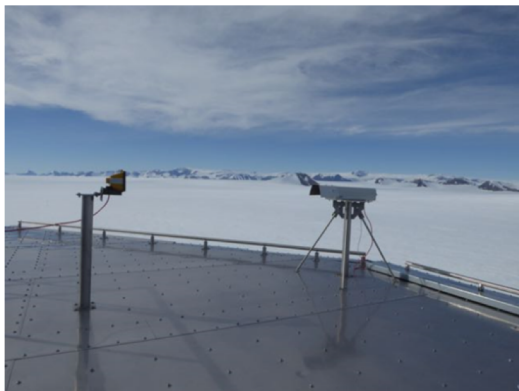
Precipitation retrieval at Princess Elisabeth, Antarctica

N. Souverijns, A. Gossart, I.V. Gorodetskaya, S. Lhermitte, N.P.M van
Lipzig
and many others

1. Ground-based precipitation retrieval



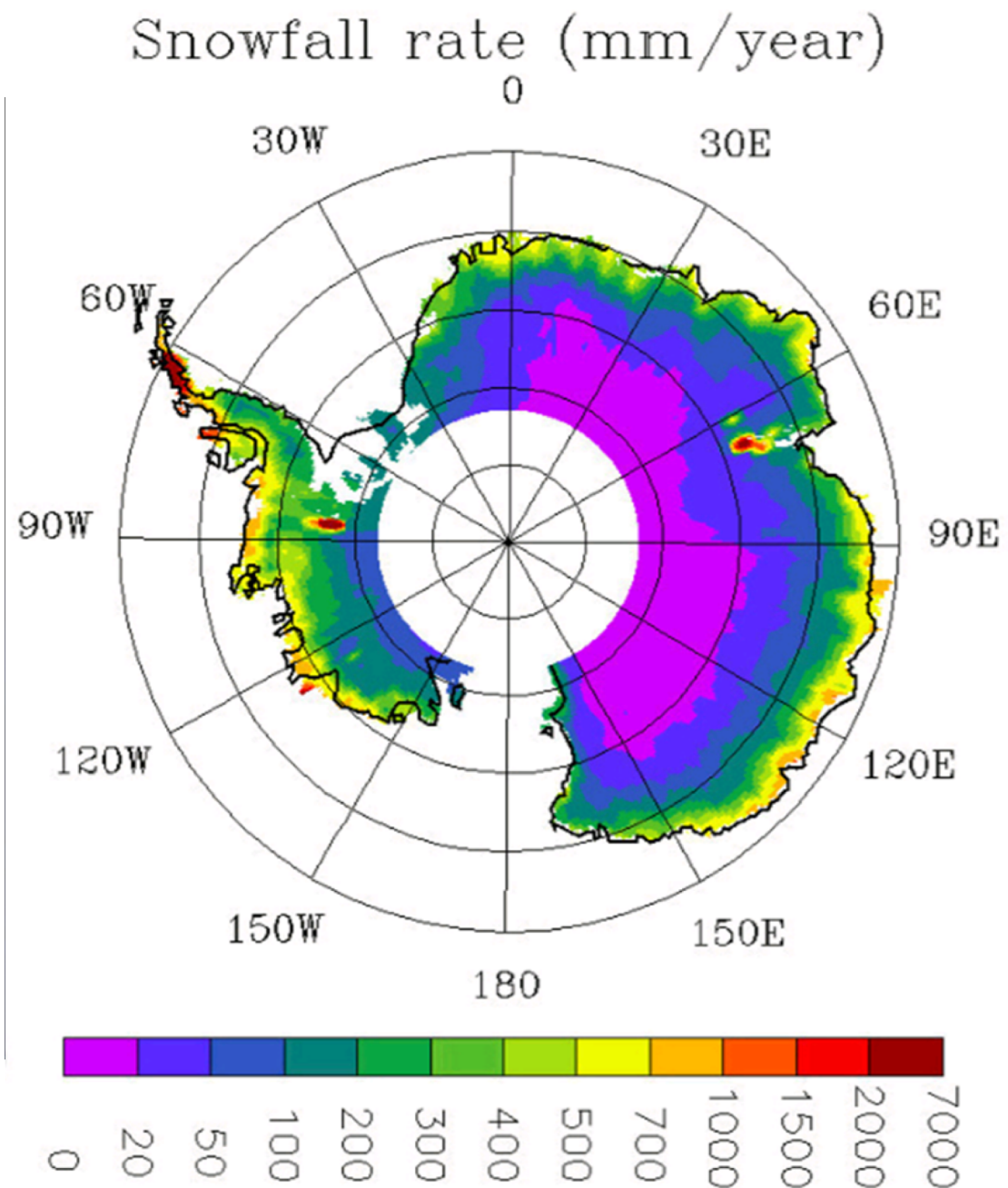




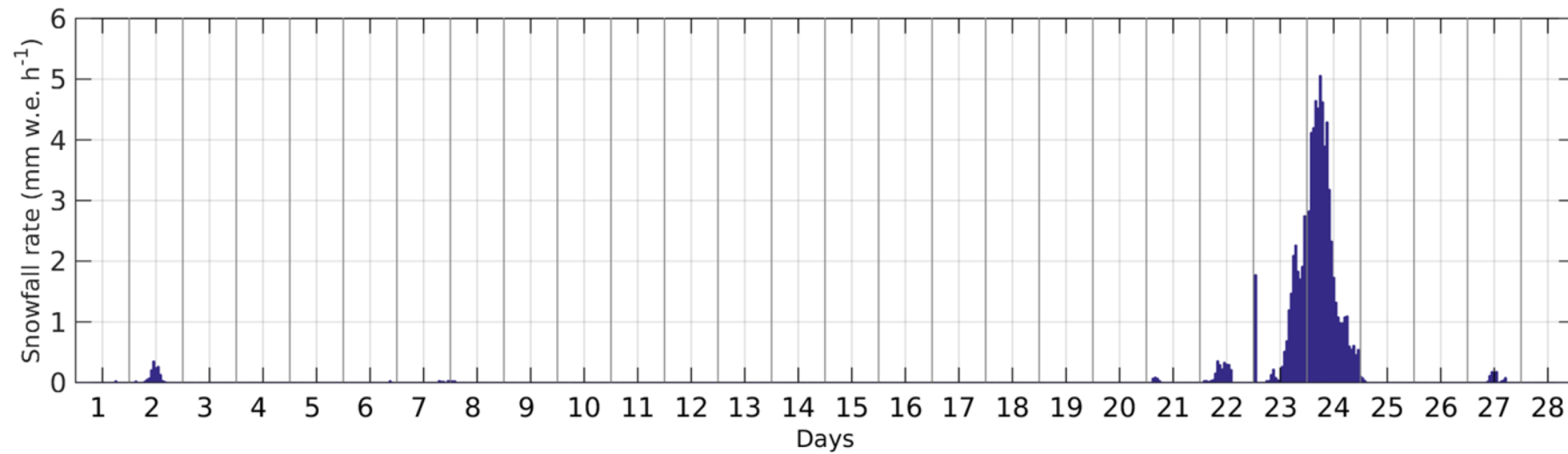
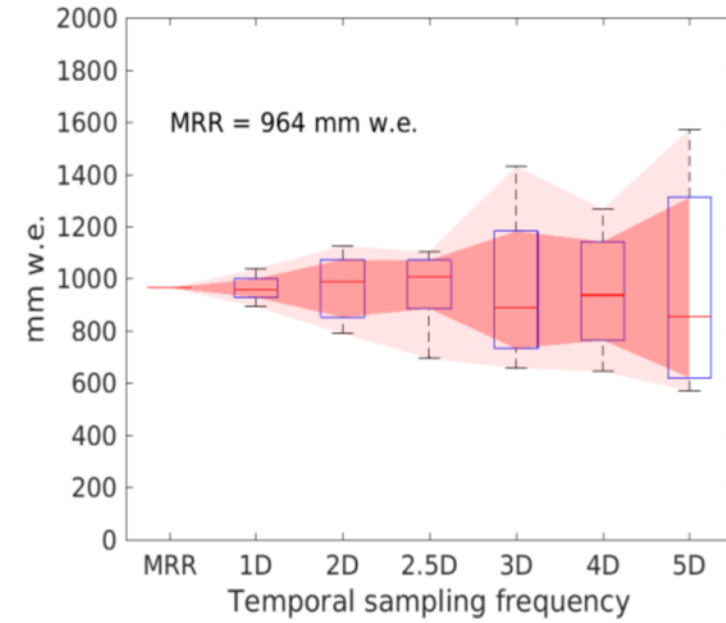
2. Airborne precipitation retrieval

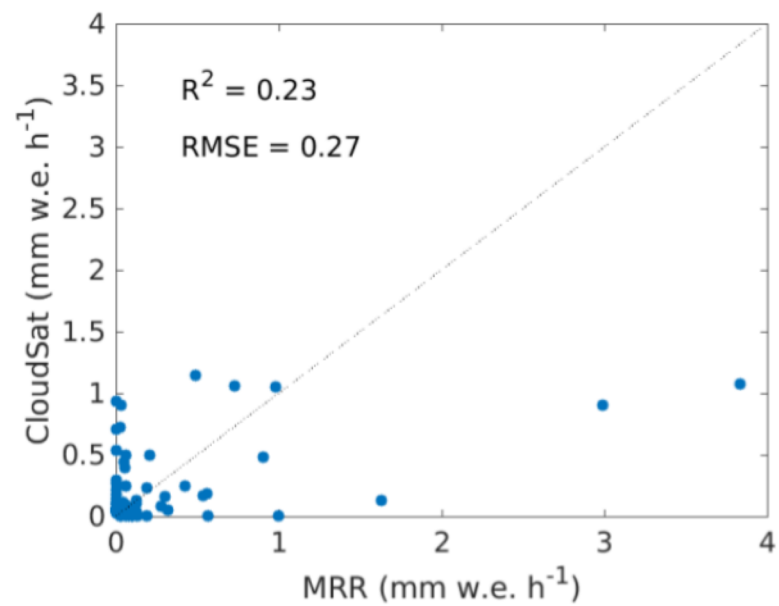
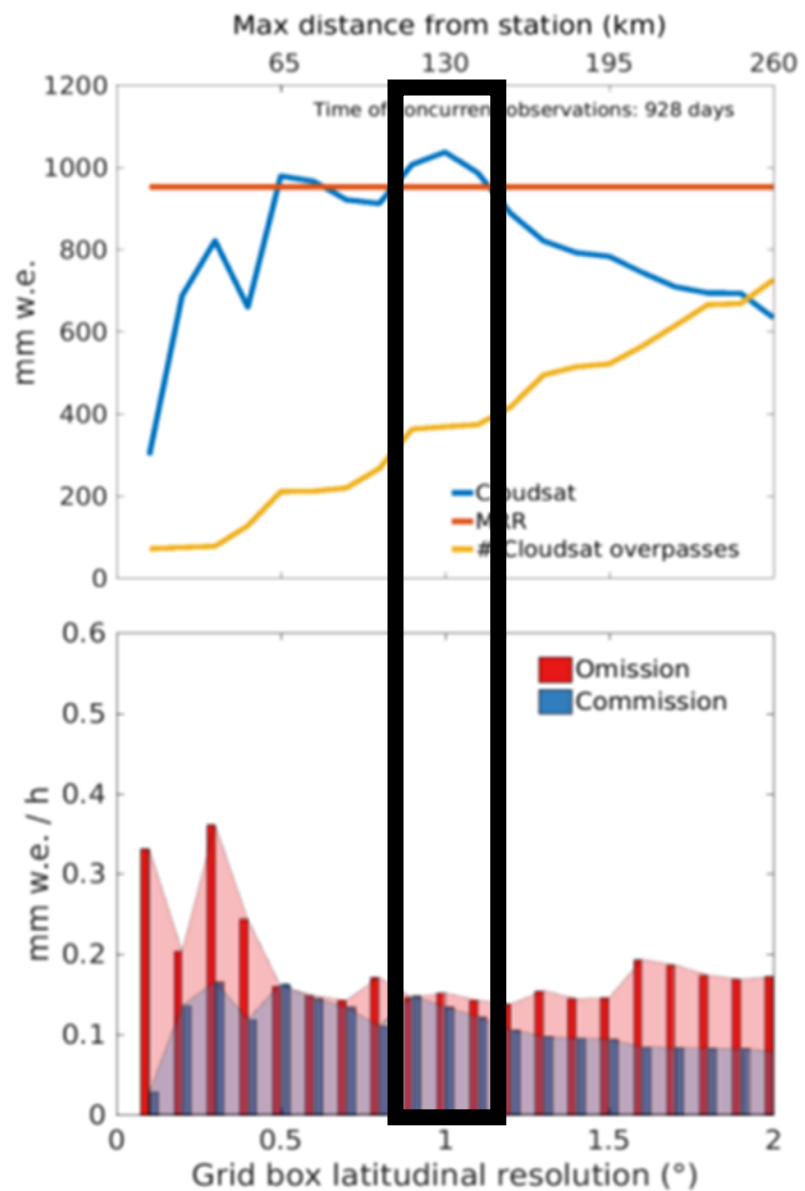


VS



CloudSat uncertainty

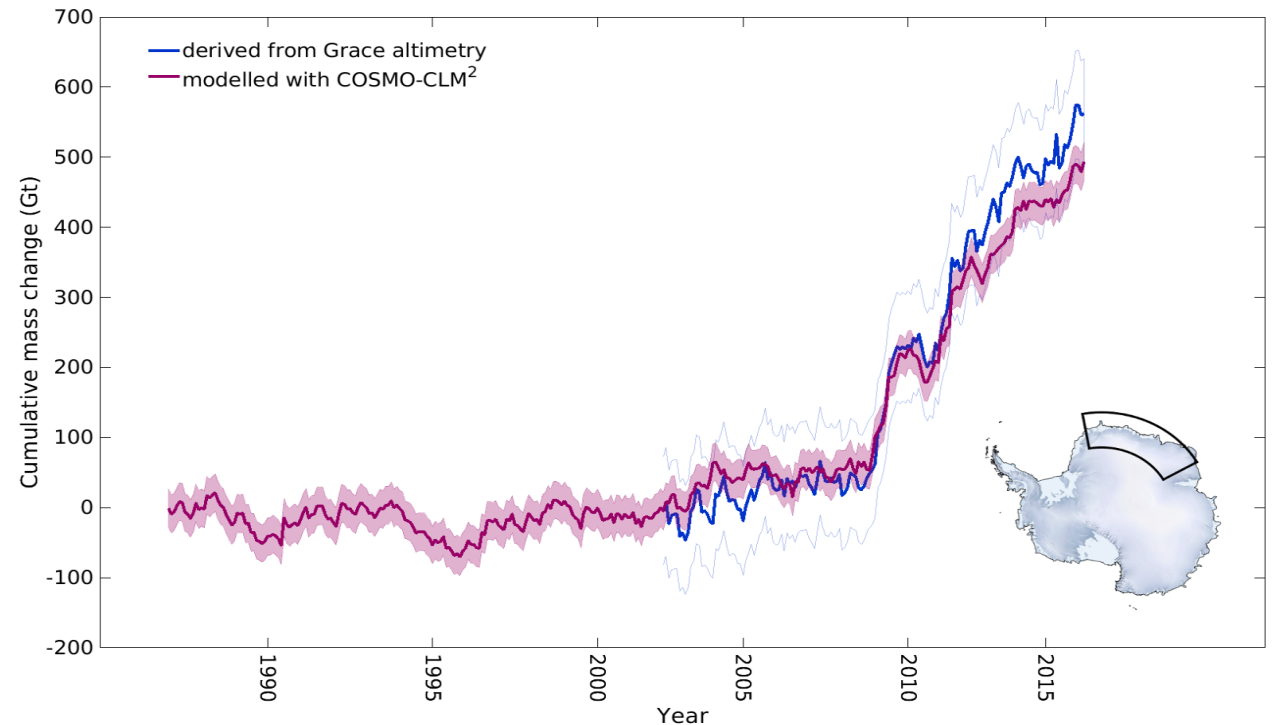




3. Modelled precipitation

COSMO-CLM²

- 30 – year hindcast simulation
- Adapted for Antarctic conditions
- Future: Cloud-aerosol-precipitation interactions at Princess Elisabeth



Some final notes

- Database of cloud, aerosol and precipitation observations at Princess Elisabeth station
 - www.aerocloud.be
- MRR snowfall retrieval → poster on Wednesday (AC-2_1654)
- CloudSat snowfall evaluation → presentation on Friday 12h (AC-2d polar meteorology session)
- Model simulation → presentation on Thursday 14h45 (AC-3a high latitude boundary layers and model evaluation)