

# Johannes Langvatn: Cloud phase variation in UKESM1-0-LL at Ny-Ålesund and Summit

## Questions:

- How is cloud phase represented in the model for the Arctic?
- Is there a difference in the two scenarios?
- Are there trends in cloud-cover / cloud-type in the model over Zeppelin and Summit?
- Is this seen in the observations?

## Models and Data:

- UKESM1-0-LL (ssp116,ssp585, and esm-hist)
- Cloud-Cover, Ice mass, Liquid Water mass
- Cloudnet - target-classification for both Ny-Ålesund and Summit
  - Ny-Ålesund from 2016.06 to 2018.01
  - Summit from 2012.05 to 2018.08
- Cloudsat – satellite cloud-classification

