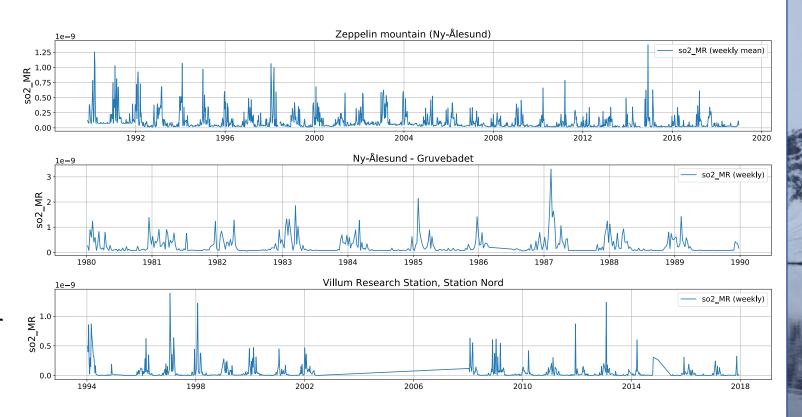
Marit: Arctic haze

- Measurements and model results of SO₂ at Zeppelin, Gruvebadet and Villum
- Models: UKESM1-0-LL, CNRM-ESM2-1, GFDL-CM4, GFDL-ESM4, NorESM2-LM
- Results so far:
- Higher measured SO₂ values aloft (Zeppelin)
- Discrepancy between models and measurements (by a factor of 10²)
- Later work:
- Find other variables to determine arctic haze events (BC?)

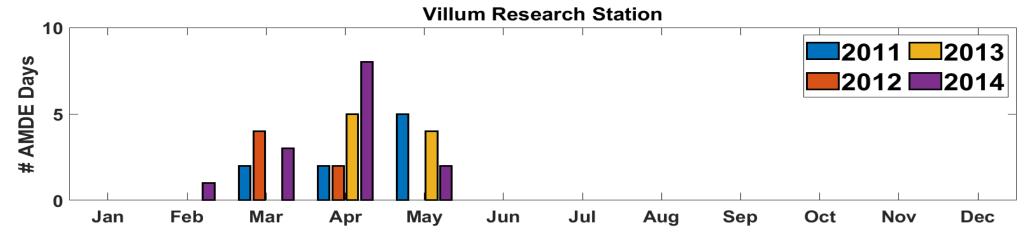


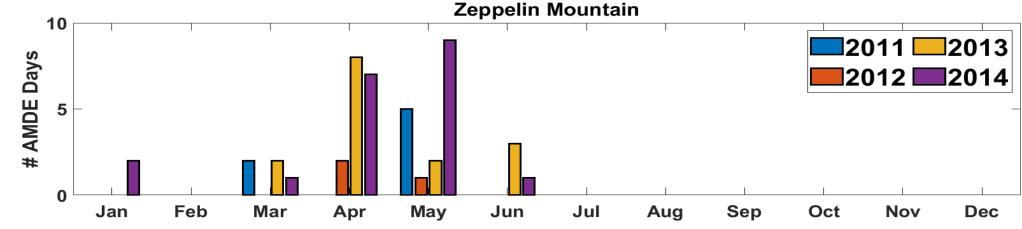
Comparison of AMDEs between Villum and Zeppelin

Jakob Boyd Pernov

Goal - Compare AMDEs between the two High Arctic sites

Research Question - What are the differences in depletion events with regards to occurrence, sea ice, insolation, RH in the period 2011-2014









Sea Ice Activity and halogen emission

Xu-Cheng He

Motivation:

Atmospheric iodine tripled in the past 70 year

Sea ice activities contributed to the increase

Preliminary results:

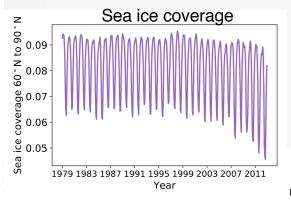
Arctic sea ice coverage in the summer is decreasing

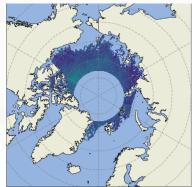
Arctic sea ice in the winter seems not largely affected

Next step:

Find data with better coverage

Consider the Arctic spring solar radiation change





Institute for Atmospheric and Earth System Research (INAR)

Winter sea ice thickness

