Can we detect thin clouds over sea ice?

**Master Thesis:**
- analysis of airborne measurements of Arctic boundary layer clouds observed during HALO-(AC)³, ALOUD and AFLUX
- comparison of solar and thermal infrared cloud detection
- sensitivity study preparing for a retrieval of thin clouds over sea ice
- application of the retrieval to test cases

**Sem. Research:**
- evolution of Arctic stratocumulus in cold air outbreaks
- impact of atmospheric environment on cloud formation
- impact of sea ice inhomogeneities on cloud formation
- change of surface albedo with increasing cloud thickness

**Sem. Methods:**
- remote sensing of clouds (spectral solar and thermal infrared)
- sensitivity of cloud retrieval to surface albedo (sea ice/open ocean)

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Anmeldung eines Themas für ein/e

| Forschungsseminar | x |
| Methodenseminar | x |
| Masterarbeit | x (bitte eines oder mehrere ankreuzen) |

| Thema | Can we detect thin clouds over sea ice from passive remote sensing? |
| Datum | available from 16. August 2023 |
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