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**Ib: MEETING POINT 15:20 MAIN ENTRANCE -  
Biology-aerosol-cloud-climate linkages, their  
importance, what we know and don't know about  
these and how we can better understand them.**

*Wednesday 13 November 2024 15:30 (1h 30m)*

Biology-aerosol-cloud-climate linkages -

Aerosol particles in the atmosphere can affect regional and global climate as they interact with radiation and promote the formation of water droplets and ice crystals in clouds. Besides anthropogenic pollution, evaporation of sea spray and biological activity contribute to aerosol formation. The loss of summer sea ice will have tremendous effects on these potential sources of aerosol (precursors), but building a quantitative understanding of the full chain of biology-aerosol-cloud-climate linkages remains a challenge. While all components of this system are being studied at AWI, linkages yet need to be developed. We want to discuss the current status and how these could be included in our future research strategy.

We would use the overview of the status quo mostly to develop a strategy for future work, please let us know if this fits the intended focus on the scientific evaluation.

**Presenter:** PITHAN, Felix

**Session Classification:** Breakout Sessions