MARCUS and MICRE ice nucleation measurements and possible data plans

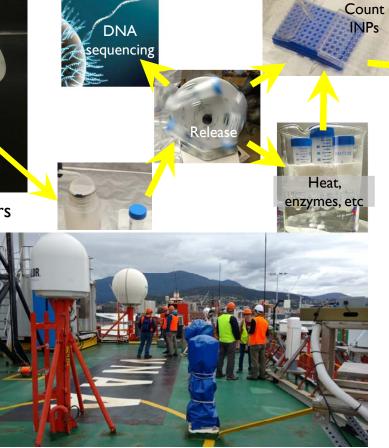
Paul DeMott and Thomas Hill Colorado State University

Ice nucleating particle measurements during MARCUS

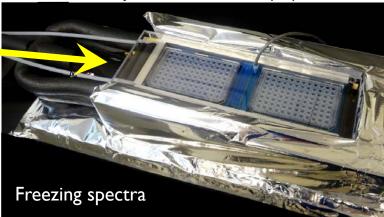


Alternating 24/48 hour filters





CSU Ice Spectrometer (IS)



- ~60 Filters collected
- Standard processing of all, thermal treatment of 1/3 is funded
- Archived by September 15, 2018
- Reserved samples for genomic analyses, OC removal, ionic analyses, TOC analysis (proposed)

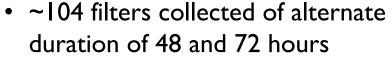


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CLIMATE RESEARCH FACILITY

MICRE



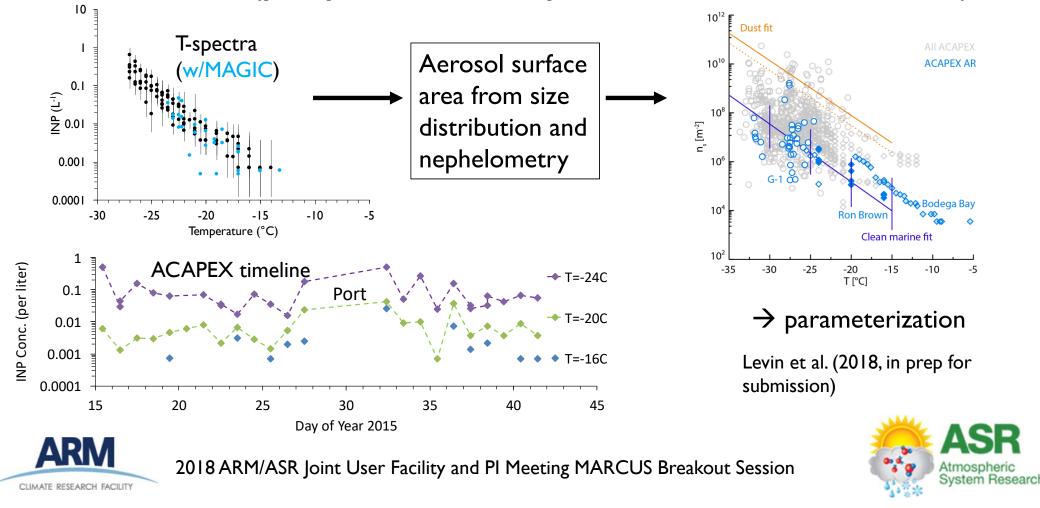


- Standard processing 50, additional thermal treatment of 20
- Simple INP concentration timelines produced
- Reserved samples for genomic analyses, OC removal, ionic analyses, TOC analysis (proposed)
- Archived by September 30, 2018

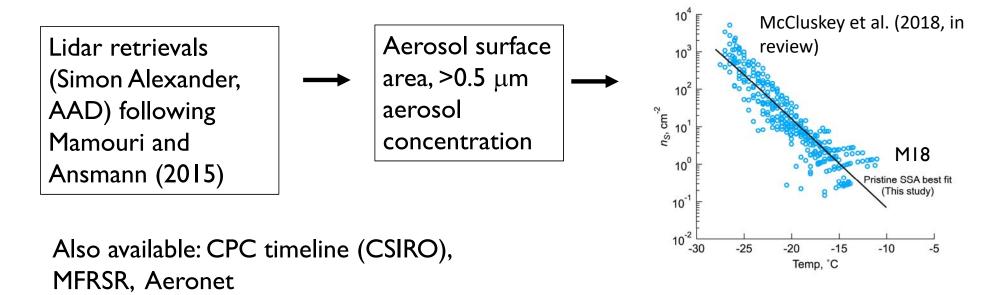




Processing data and integrating with AMF suite for MARCUS (proposed; examples from other studies)



Processing data and integrating with measurements at MICRE (proposed)





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Expect extraordinarily clean conditions

