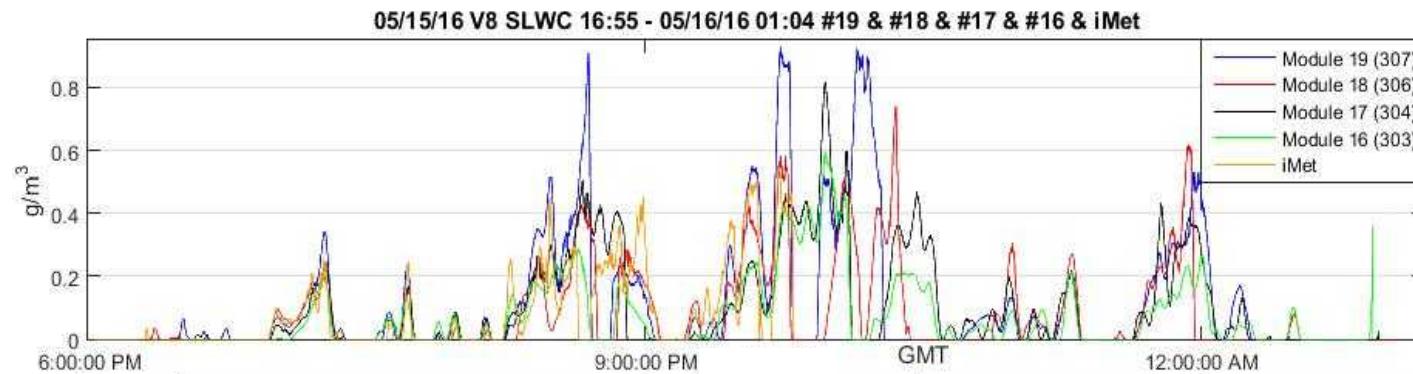


ARM Tethered Balloon System (TBS) Measurements

SAND2017-6198C

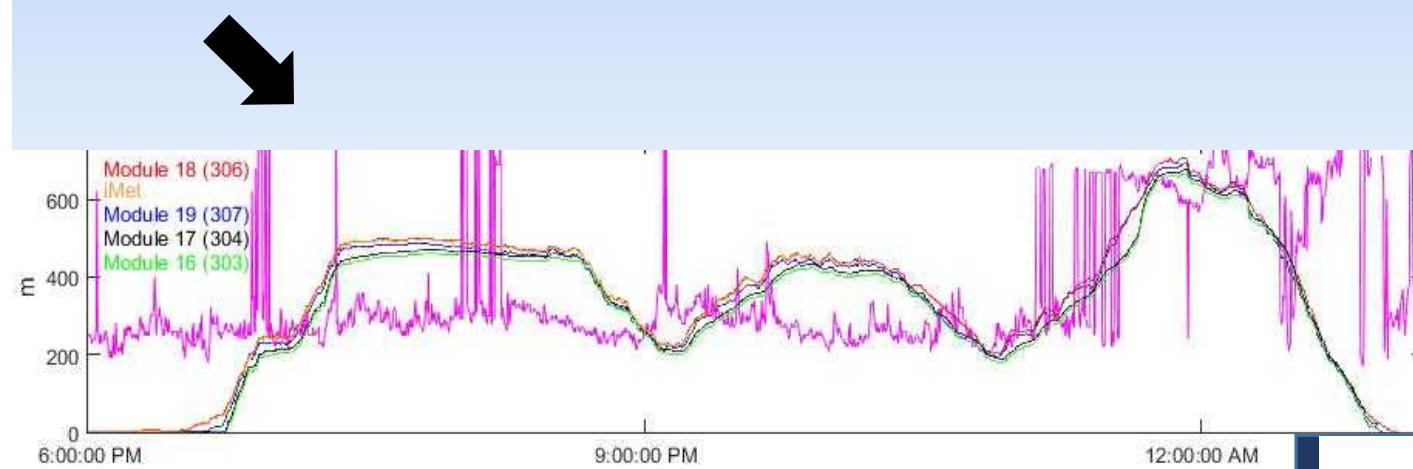
SLWC (Supercooled Liquid Water Content)
sondes deployed on TBS at ARM AMF3 at
Oliktok Pt, AK beginning October 2015.



↑ Supercooled liquid water content in g/m^3 from five SLWC sondes deployed on TBS in clouds in May 2016 at AMF3.

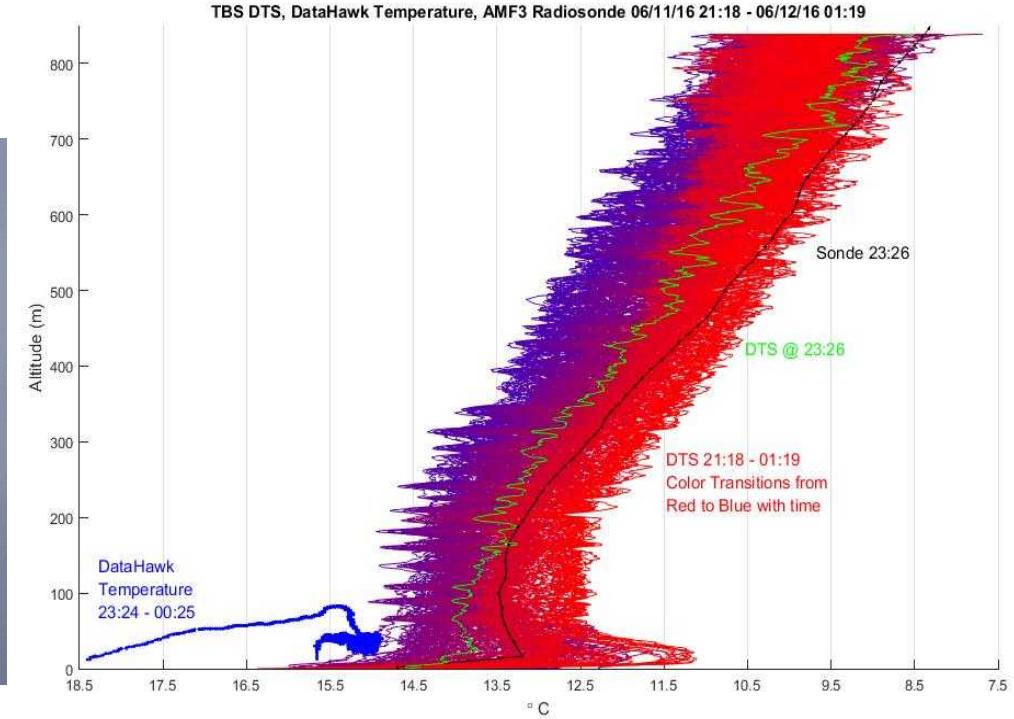
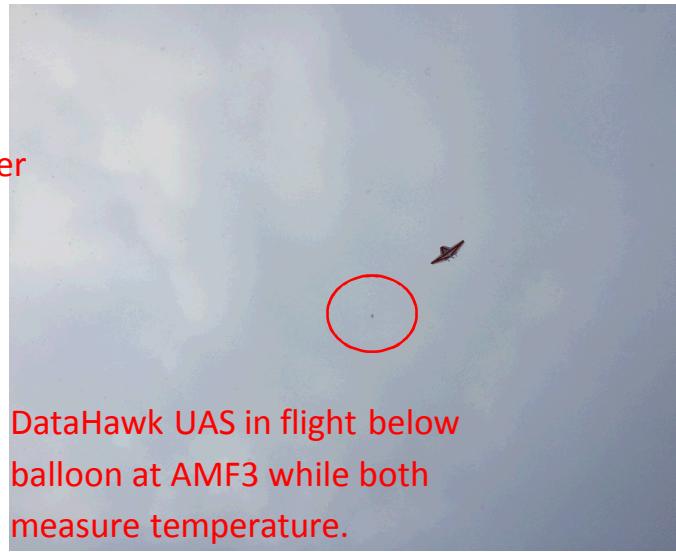
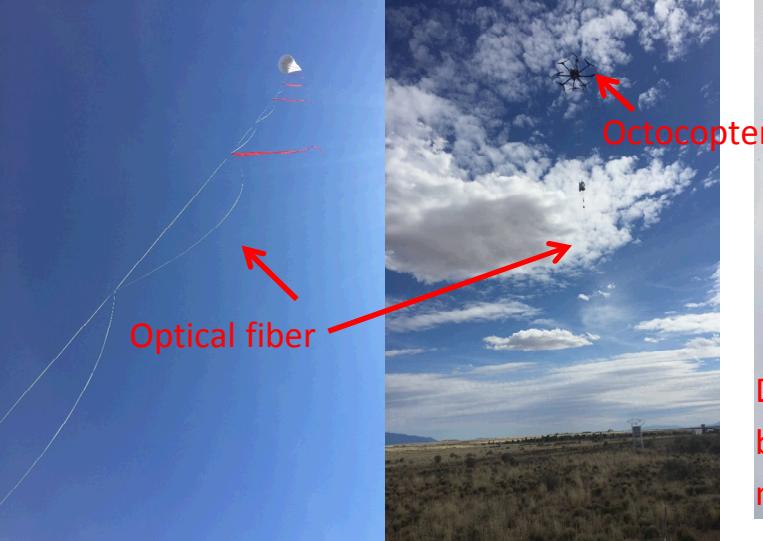
Altitude of five SLWCs with ceilometer-defined cloud base shown in pink.

↓

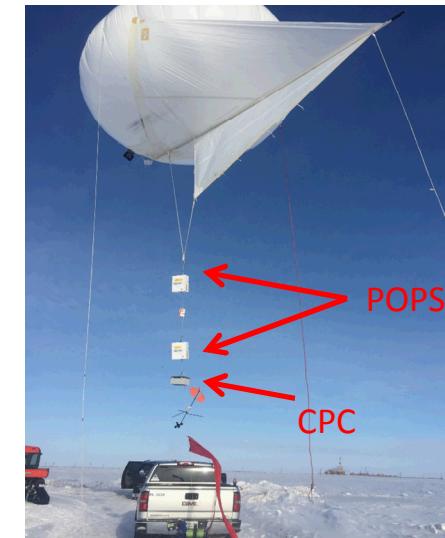
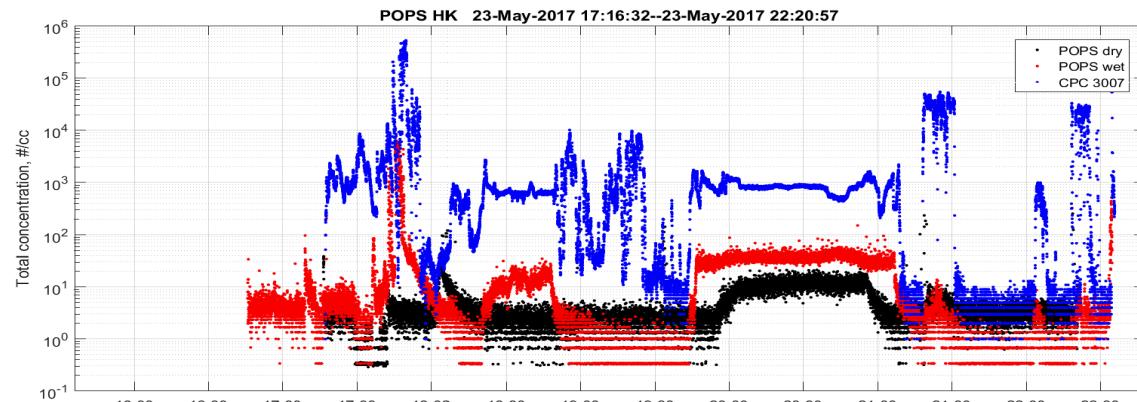


Distributed Temperature Sensing (DTS) & Aerosols

Distributed Temperature Sensing system using optical fiber deployed on TBS at AMF3 beginning May 2016. Planned to deploy from UAS at AMF3 in August 2017.



Two Printed Optical Particle Spectrometers (POPS) and Condensation Particle Counter (CPC) deployed for aerosol measurement on TBS beginning April 2017.



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Erika Roesler (SNL)