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# 4STAR sky-scanning retrievals of aerosol intensive optical properties from multiple field campaigns with detailed comparisons of SSA reported during SEAC4RS

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## <u>Sun-Tracking = Atmospheric Research!</u>



Ames Airborne Tracking Sunphotometer

- atmospheric components



### What is next for 4STAR?

- **Current AITT funding to improve** calibration stability and implement mechanical/optical improvements
- **Selected for KORUS-AQ 2016**
- Selected for ORACLES 2016-2020
- **Explore new calibration approach** to eliminate relative bias errors between direct beam and sky radiance measurements.
- Implement vectorized radiative transfer code to speed sky scan retrieval for N-wavelengths.
- Hyperspectral cloud-properties retrievals in development (demonstrated in NAAMES)
- **Build more 4STARS!**