

Shortwave-absorbing aerosols and their interactions with the large-scale environment

Conveners: Paquita Zuidema, Allison Aiken, Art Sedlacek, Yan Fen

Aerosol-Cloud Interactions:

2:38 *Allison Collow and Mark Miller*: Radiative Heating Rate Profiles over the Southeast Atlantic Ocean during the 2016 and 2017 Biomass Burning Seasons [10 minutes+ 2 Q/A]

2:50 *Paul Barrett*: On the collaboration between UK CLARIFY and LASIC [10 minutes+ 2 Q/A]

3:02 *Jianhao Zhang*: Amplification of the seasonal cycle in low clouds over the remote southeast Atlantic when biomass-burning aerosol is present [10 minutes + 2 Q/A]

3:14 *Pablo Saide and Calvin Howes*: Hygroscopicity parameter from LASIC observations and comparison to models [10 minutes + 2 Q/A]

3:38 *Michael Diamond, Ann Fridlind/Andrew Ackerman, Jan Kazil*: Stratocumulus-to-cumulus transitions in the presence of smoke [15 minutes+ 5 Q/A]

- A theme in many presentations was an increasing synergism in the analysis of LASIC datasets with those from aircraft campaigns with similar goals (CLARIFY (UK), ORACLES (NASA)); see Special Issue in ACP/AMT also
- Post-Session Discussion strategizing on how to further develop the stratocumulus to cumulus process modeling studies including better take advantage of the Ascension Island ‘decoupled stratocumulus’ observations.

Todos:

- Planning for a fall virtual working group meeting for the process cloud modeling studies
- LASIC overview paper

ongoing

Copernicus ACP/AMT Special Issue, *“New observations and related modelling studies of the aerosol–cloud–climate system in the Southeast Atlantic and southern Africa regions “*

Southeast Atlantic session at AMS 2021 annual meeting in aerosol-cloud interactions, lead-convener Michael Diamond UW