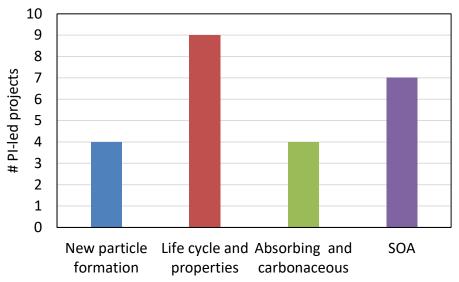
Aerosol Processes Working Group (aka APWG)



Who are we? Current research areas for APWG PIs



Aerosol Life Cycle Working Group research areas include:

- 1) new particle formation
- 2) effects of aerosol composition, mixing state, and physical properties on growth, aging, and removal processes
- 3) direct and indirect radiative effects of optically absorbing aerosols; and
- 4) understanding and predicting secondary organic aerosol concentrations and properties.

Recent and planned ARM field deployments with an "aerosol processes" component

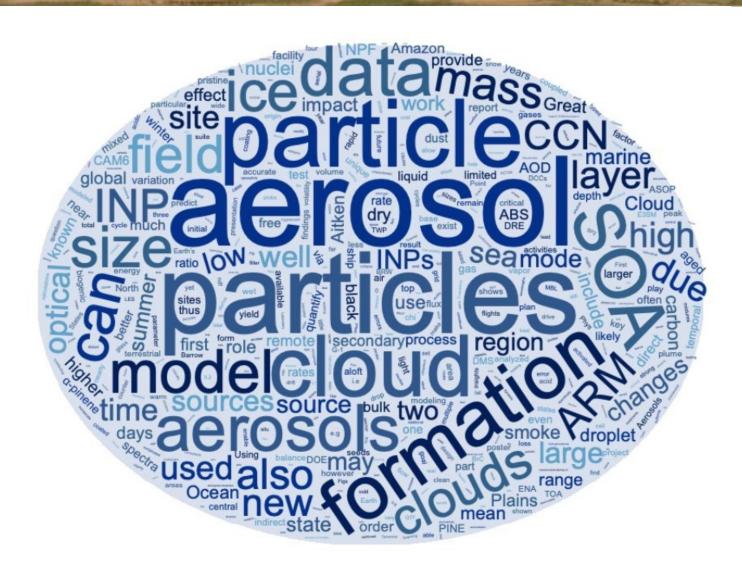
- 1. Southeast US Deployment of the AMF3 (**SEUS**) 2022 2027, Southeastern US
- 2. Surface Atmosphere Integrated field Laboratory (**SAIL**) Sep 2021 – Jun 2023, Crested Butte, CO
- 3. Tracking Aerosol Convection Interactions Experiment (**TRACER**)
 Apr 2021 Apr 2022, Houston, TX
- Multidisciplinary Drifting Observatory for the Study of Arctic Climate (MOSAiC)
 Sept 2019 Oct 2020, Arctic Sea (research ship)
- 5. Measurements of Aerosols, Radiation, and Clouds Over the Southern Ocean (MARCUS)
 - Oct 2017 April 2018, Southern Ocean (research ship).
- 6. Aerosol and Cloud Experiments in the Eastern North Atlantic (**ACE-ENA**) June Feb 2018, Azores.
- 7. Layered Atlantic Smoke Interactions with Clouds (**LASIC**)
 June 2016 Oct 2017, Ascension Island.
- 8. Holistic Interactions of Shallow Clouds, Aerosols, & Land-Ecosystems (**HI-SCALE**) April Sept 2016, ARM SGP site.

Today's agenda

- 11:00-11:10 Introduction (Jim Smith & Nicole Riemer)
- 11:10-11:45 1-minute madness poster talks by session participants
- 11:45-11:55 Presentation by aerosol translator John Shilling
- 11:55- 12:35 Breakout session summaries
 - ARM Aerial Instrumentation Update and Discussion (Fan Mei)
 - Shortwave-absorbing aerosols and their interactions with the large-scale environment (Paquita Zuidema)
 - Surface Atmosphere Integrated field Laboratory (SAIL) Campaign (Daniel Feldman)
 - Aerosol and Cloud Experiments in the Eastern North Atlantic (Jian Wang)
 - AMF3 Southeast United States Deployment (Chongai Kuang)
 - TRACER update (Chongai Kuang)

12:35-13:00 Closing discussion

1-Minute-Madness 2020 poster talks





- Aerosol Measurement Science Group Community Input
 - Follow up on Allison McComiskey's presentation on Monday:
 - Discussion on "IOP sampling mode"
- Aerosol Processes WG-relevant topical virtual sessions in the fall
 - Who is planning to organize one?
 - Lessons learned from virtual meetings so far (this one or others) to make these a success?