AGU Talks of Interest to the Team (from Kirk and Matteo)

[https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/692428](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fagu.confex.com%2Fagu%2Ffm20%2Fmeetingapp.cgi%2FPaper%2F692428&data=04%7C01%7Ckirk.d.knobelspiesse%40nasa.gov%7Cda368ff53ee2483ba8d308d89ac52bb4%7C7005d45845be48ae8140d43da96dd17b%7C0%7C0%7C637429518918828510%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=GLbQ1fT9yAaH6%2B2v2F%2B8h08Xbg2Rx2ffwr9qiB1Sxs8%3D&reserved=0)

**Airborne High Spectral Resolution Lidar-2 Measurements of Enhanced Depolarization in Marine Aerosols**

Rich Ferrare is finding evidence of sea salt aerosols that are nonspherical when relative humidity is low. This is in the context of lidar data, but I wonder if it is relevant to the assumption of spherical sea salt aerosols in our atmosphere correction.

<https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/661780>

[**A091-0003 Analysis of AERONET Extended Wavelength Retrievals of Aerosol Absorption Parameters Including 380 nm and 500 nm for Detection of Brown Carbon in Biomass Burning and Iron Oxides in Desert Dust**](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/661780)

Thomas F Eck et al regarding brown carbon measurements by AERONET

<https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/737991>

**A029-03 - Designing the NASA Air Quality Data System of the Future: User Responsiveness and Data Accessibility for the Multi-Angle Imager for Aerosols (MAIA) Project (Invited)**

Abigail Nastan MAIA has an Early Adopter program like PACE, here is a progress report

[A091-0007 Preliminary results from HARP CubeSat and a look ahead towards future HARP missions and concepts](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/773063)

***Jose Vanderlei Martins****1,*

[A091-0009 Semi-autonomous Target Selection for Orbital Remote Sensing Platforms as applied to the Hyper-Angular Rainbow Polarimeter (HARP) CubeSat](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/685013)

***Noah Christian Sienkiewicz***

[A210-0003 Cloud-edge and in-cloud parallax effects in the polarimetric cloud property retrievals](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/693530)***Chamara Rajapakshe***

[A210-0010 Evaluation of Distributed System Mission (DSM) Architectures for Cloud Bow Retrievals using the Hyper-Angular Rainbow Polarimeter (HARP)](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/757072)***Sabrina Thompson****1,2,*

[A091-0010 Synergy between UV and VIS-NIR sensor to improve aerosol retrievals of optical depth, absorption and height: Examples from collocated observations of OMPS and VIIRS](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/685233)***Santiago Gassó****1,2,*

[A091-0005 Development of a common Level-1C product to facilitate multi-sensor science from the NASA PACE Mission](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/684012)***Kirk D Knobelspiesse****1*

[A100-01 Death, Taxes and Aerosol (Invited)](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/664800)***Nick Schutgens****,*

[A135-02 Closing the Aerosol Forcing Uncertainty Gap (Invited)](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/666428)***Ralph A Kahn***

[A135-05 How Consistent Are Satellite Retrievals of Smoke From the 2019-2020 Australian Fires?](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/693731)***Andrew M Sayer****,*

[A141-0013 Cloud Top Observations of the Droplet Size Distribution in Drizzling Stratiform Clouds](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/750494)***Kenneth Sinclair****1,*

[A158-07 Using remotely sensed cloud top properties to look at drizzle formation](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/734416)***Brian Cairns****1,*

[A211-0008 A Combined Lidar-Polarimeter Inversion Approach for Aerosol Remote Sensing over Ocean](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/712338)***Feng Xu****1*

[A208-03 Retrieval of aerosol properties from HARP observations](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/686349)***Anin Puthukkudy****1,*

[A208-04 Exploring the capabilities of synergistic passive and active remote sensing with a new aerosol retrieval testbed](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/694426)***Reed Espinosa****1,*

[A208-05 The PACE-MAPP Algorithm: Coupled Ocean/Aerosol Products](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/711580)***Snorre Stamnes****1*

[A208-07 Simulated Proxy Data for PACE OCI Pre-Launch Inversion Algorithm Development](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/755861)***Amir Ibrahim****1*

[A231-04 Remote sensing of the ocean surface refractive index](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/682293)***Matteo Ottaviani****,*

[A231-05 Droplet Size Tomography Using Multi-View Polarimetric Measurements](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/770303)***Aviad Levis****,*

[A231-06 Application of Radon Transform to Multi-angle Measurements Made by the Research Scanning Polarimeter: Test of a Cloud Tomography Concept](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/687865)***Mikhail D Alexandrov****,*

[A243-02 Observations of Atmospheric Aerosol Absorption and Their Use to Constrain Models at Various Scales (Invited)](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/682847)***Jens Redemann****1,*

[A249-04 A Necessary Step Toward Cloud Tomography from Space using MISR and MODIS: Understanding the Physics of Opaque 3D Cloud Image Formation](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/764138)***Anthony B Davis***

[A249-07 Atmospheric correction for hyperspectral radiometers over the ocean using multi-angle polarimetric retrievals](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/755477)***Neranga Prasadi Kaluappuwa Hannadige****1,*

[C002-0005 Measuring the Effect of Forest Fires on Daily Snow Albedo Across Spatial and Temporal Scales Using MODIS Data](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/771677)***Max Gersh****and Kelly Gleason, Portland State University, Portland, OR, United States*

[C004-0010 Multimodal Dataset Integration for Cloud Masking of ICESat-2](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/743265)***Facundo Sapienza****1, Tasha Snow2,3, Alice Cima1, Shane Grigsby4, Lindsey Justine Heagy1, Fernando Perez1, Matthew Siegfried5 and Jonathan Taylor6, (1)University of California, Berkeley, Statistics, Berkeley, CA, United States, (2)University of Colorado Boulder, Boulder, CO, United States, (3)Cooperative Institute for Research in Environmental Sciences, Boulder, CO, United States, (4)University of Colorado at Boulder, Boulder, CO, United States, (5)Colorado School of Mines, Geophysics, Golden, CO, United States, (6)Stanford University, Stanford, United States*

OS004 - William S. and Carelyn Y. Reeburgh Lecture:

[OS004-01 Oceanic Dissolved Organic Carbon: The World Tour (Invited)](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/776783)***Dennis A Hansell****, University of Miami, Miami, FL, United States*

[B009-14 Characterization of the spatial variability of bidirectional reflectance distribution function parameters over a heterogeneous rice paddy landscape](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/766348)***Juwon Kong****1, Youngryel Ryu1,2, Benjamin Dechant3, Sungchan Jeong2 and Wonseok Choi2, (1)Interdisciplinary Program in Landscape Architecture, Seoul National University, Seoul, South Korea, (2)Department of Landscape Architecture and Rural Systems Engineering, Seoul National University, Seoul, South Korea, (3)Research Institute of Agriculture and Life Sciences, Seoul National University, Seoul, South Korea*

[A053-01 Aerosols and their Gaming of the Climate System: Microscale presence to Macroscopic impacts (Invited)](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/776753)***V Ramaswamy****, NOAA/OAR/ GFDL, Princeton, NJ, United States*

[C030-0015 On orbit calibration and validation activities for the Ice, Cloud, and Land Elevation Satellite – 2 (ICESat-2) Mission](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/701152)

[A149-0010 Recent Improvements in EPIC Cloud Mask Over Snow/Ice and Sunglint Regions](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/740767)***Yaping Zhou****1, Yuekui Yang2, Pengwang Zhai1 and Meng Gao3, (1)University of Maryland Baltimore County, Baltimore, MD, United States, (2)NASA, Greenbelt, MD, United States, (3)NASA Goddard Space Flight Center, Greenbelt, MD, United States*

[C044-0004 Springtime observations of ice nucleating particles (INP) above Arctic sea ice during MOSAiC](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/736111)***Markus M Frey****1, Amelie Kirchgaessner1, Tom Lachlan-Cope1, Frank Sagan2, Martin Radenz3, Frank Stratmann3, Amy Macfarlane4, Stefanie Arndt5, Kouichi Nishimura6, Ian M. Brooks7, Anna E. Jones1 and Xin Yang1, (1)NERC British Antarctic Survey, Cambridge, United Kingdom, (2)Droplet Measurement Technologies, Boulder, United States, (3)Leibniz Institute for Tropospheric Research, Leipzig, Germany, (4)WSL Institute for Snow and Avalanche Research SLF, Davos Dorf, Switzerland, (5)Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research Bremerhaven, Bremerhaven, Germany, (6)Nagoya University, Nagoya, Japan, (7)University of Leeds, Leeds, United Kingdom*

[C044-0012 The MOSAiC ROV Program: One Year of Comprehensive Under-Ice Observations](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/667638)*Philipp Anhaus1,****Christian Katlein****2, Ilkka Matero1, Daniela Krampe1, Stefanie Arndt1, Julia Regnery1 and Marcel Nicolaus1, (1)Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany, (2)Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Sea Ice Physics, Bremerhaven, Germany*

[C030-0016 On-Orbit Radiometric Performance on ICESat-2](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/667060)***Aimée Gibbons****1, Tom Neumann2, Anthony J Martino3, Jeffrey Lee1, David Hancock1 and Kaitlin Harbeck1, (1)KBR, NASA Goddard Space Flight Center, Greenbelt, MD, United States, (2)NASA Goddard Space Flight Ctr., Greenbelt, MD, United States, (3)NASA Goddard Space Flight Ctr, Greenbelt, MD, United States*

[C030-0017 Potential radiometric impact of atmospheric attenuation on ICESat-2 land retrievals](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/745191)***Amy L Neuenschwander****and Lori A Magruder, University of Texas at Austin, Austin, TX, United States*

[C030-0021 The Atmospheric Measurements of ICESat-2](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/706637)***Stephen P Palm****, Science Systems and Applications, Inc., NASA Goddard Space Flight Center, Lanham, MD, United States, Yuekui Yang, NASA Goddard Space Flight Center, Greenbelt, MD, United States and Ute C Herzfeld, Univ Colorado Boulder, Electrical, Computer and Energy Engineering and CIRES, Boulder, CO, United States*

[C036-01 ARM aerosol and trace gas measurements during the MOSAiC expedition](https://agu.confex.com/agu/fm20/meetingapp.cgi/Paper/684258)***Janek Uin****, Stephen R. Springston and Thomas B Watson, Brookhaven National Laboratory, Upton, NY, United States*

Sessions:

* + [A029 Advances in a Global Observing System for Air Quality II](https://agu.confex.com/agu/fm20/meetingapp.cgi/Session/108261)

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* + [A030 Dust in a Changing Climate: From Small-Scale Insights to Large-Scale Understanding III](https://agu.confex.com/agu/fm20/meetingapp.cgi/Session/108755)

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* + [GC021 Advancing Global Imaging Spectroscopy and Thermal Infrared Measurements I](https://agu.confex.com/agu/fm20/meetingapp.cgi/Session/107083)
	+ [B007 Sun-Induced Chlorophyll Fluorescence As a Proxy of Photosynthesis: Measurements, Modeling, and Applications from Field, Airborne, and Satellite Platforms I](https://agu.confex.com/agu/fm20/meetingapp.cgi/Session/110839)