

CALL FOR PAPERS

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15th Conference on Polar Meteorology and Oceanography, 19–23 May 2019, Boulder, Colorado

The 15th Conference on Polar Meteorology and Oceanography is sponsored by the American Meteorological Society and organized by the AMS Polar Meteorology and Oceanography Committee and will be held at the Williams Village Dining Center and Community Commons on the University of Colorado Boulder campus. The conference will kick off with an evening icebreaker on Sunday, 19 May and will be followed by four days of scientific sessions.

Papers are solicited on all aspects of polar meteorology and oceanography, including but not limited to the following:

- climate variability and change in the polar regions;
- rapid environmental change in the polar regions;
- interactions among polar atmosphere–ocean–land–ice components;
- high latitude atmospheric and oceanic dynamics;
- boundary layer processes, polar clouds, precipitation, and aerosols;
- weather and climate modelling in the polar regions;
- connections of the polar regions with the tropics and midlatitudes;
- sea ice variability, modeling, and change; and
- the state of the cryosphere.

A \$95 abstract fee will include the submission of your abstract, the posting of your extended abstract, and the uploading and recording of your presentation, which will be archived on the AMS conference website. Please submit your abstract electronically via the AMS conference website

by 18 January 2019 (see the website for instructions). The abstract fee is charged at the time of submission and refundable only if abstract is not accepted. Authors of accepted presentations will be notified via email by early March 2019.

All extended abstracts are to be submitted electronically and will be available online. Instructions for formatting extended abstracts will be posted on the AMS website. Authors have the option to submit extended abstracts (up to 10 MB) electronically by 21 June 2019. All abstracts, extended abstracts, and presentations will be available on the AMS website at no cost.

The program committee will be offering several opportunities for student support and awards. We will be awarding first and second place prizes for both poster and oral presentations given by students, which will be judged on scientific content, presentation delivery, and the overall effectiveness of communication. You must indicate your eligibility for this presentation awards when submitting your abstract. Additionally, we will be offering four student travel awards, designed to cover student member registration fees and partially offset other travel-related costs. Students that are presenting their work at the conference and who would like to be considered for travel support should indicate so when submitting their abstract; further justification for need may be required. These travel awards will be vetted by the committee and will be based primarily on need and research criteria to ensure a diversity of student involvement at the conference.

For further program information please contact the program chair, Ryan Fogt, Department of Geography and Scalia Laboratory for Atmospheric Analysis, Ohio University, 122 Clippinger Labs, Athens, OH 45701 (email: fogtr@ohio.edu). (8/18)

ANNOUNCEMENT

23rd AMS Satellite Meteorology, Oceanography and Climatology Conference/2019 EUMETSAT Meteorological Satellite Conference/NOAA Satellite Conference, 28 September–4 October 2019, Boston, Massachusetts

This joint conference combines three major satellite conferences into one single major event. It has been the practice of the American Meteorological Society (AMS) Satellite Meteorology, Oceanography, and Climatology (SatMetOC) Committee, and the European Organization for the Exploitation of Meteorological Satellites (EUMETSAT) to hold joint conferences approximately every six years, most recently in Vienna (2013), and previously in Amsterdam (2007) and Paris (1998). For the first time, the NOAA Satellite Conference—including NOAA Satellite international GEOMETCAST training classes—will also join the conference. In addition, the event this year celebrates the 100th anniversary of the American Meteorological Society. The conference will be held at the AAA four diamond award-winning Westin Boston Waterfront Hotel.

Observations as the basis for informed decision-making—looking to the future operationally: We are at the front end of an explosion of new data sources, a greatly expanding computational environment, miniaturization, and emerging new technologies for Earth observation, deep machine learning, value-added data services, the Internet of Things, increased societal vulnerability, and the nexus of water, food, and energy security concerns. These reinforce the importance of, and need for, collaborative and agile partnerships that deliver satellite capabilities and data that address evolving societal needs. We also

focus on the Arctic and polar issues, noting the impact of the changes in the Arctic region on weather prediction and society and the push of numerical weather forecasts beyond week 2 toward subseasonal-to-seasonal weather and climate prediction.

A call for papers will be issued in September. The conference organizers are particularly interested in soliciting papers on the improved use of satellite data for analyzing and predicting the weather, ocean/coastal/water regimes, climate, and the environment. Major areas of interest (and anticipated sessions) include the following:

- 1) New satellite systems and instrumentation: illustrating the potential of new satellite systems to improve weather, climate, and other environmental data products; enhance user application and services and contribute to blended and fused satellite datasets; future observing system architectures, flight projects, and international partnerships; and new emerging approaches for space-based observations, concepts, and their practical application to operational Earth observations;
- 2) Status of satellite products and data access: including how satellite data are being used to advance our understanding of fundamental weather and climate processes in the atmosphere, oceans, land surface, and cryosphere;
- 3) Oceanography and marine meteorology: including research and operational satellite data applications for ocean, coastal, and air-sea interaction monitoring and forecasting;
- 4) Significance of satellite data for monitoring the polar regions: noting the rapidly changing polar environment in a changing climate and recognizing the important coupling of the cryosphere with the biosphere, oceans, atmosphere, and land in the Earth system;
- 5) Impact of satellite data on now-casting and short range weather forecasting: including the development of innovative methods of combining and assimilating satellite observations of the atmosphere, ocean/water, and land to improve forecast skill and now-casting and high-resolution numerical weather prediction;
- 6) Quantifying impact of weather extremes in a changing climate: including heat waves, droughts, heavy precipitation events, agriculture and ecosystems, and human health and well-being;
- 7) Training and user preparation: including satellite testbeds and proving grounds, system readiness exercises, lessons learned and best practices, workshops, case studies, and self-paced learning resources;
- 8) Air quality and atmospheric composition: including satellite-based observations to depict processes that determine air pollution and trace/greenhouse gas distributions and estimation of global air pollution impacts

For further programmatic information, please feel free to contact the conference chairs: Kenneth Holmlund, EUMETSAT and SatMetOC co-chair (email: kenneth.holmlund@eumetsat.int); Mitchell Goldberg, NOAA and SatMetOC co-chair (email: mitch.goldberg@noa.gov); and Philip Ardanuy, INNOVIM and SatMetOC member (email: pardanuy@innovim.com). Additionally, there are three technical points of contact: Gabriele Kerrmann, EUMETSAT (email: gabriele.kerrmann@eumetsat.int); Gillian Peguero, AMS (email: gpeguero@ametsoc.org); and Eric Madsen, NOAA (email: eric.madsen@noaa.gov). (8/18)