



The International Association of Meteorology and Atmospheric Sciences 2020 Report to SCOR (www.IAMAS.org)

IAMAS is one of the eight associations dealing with the Earth system and its environs that make up the International Union of Geodesy and Geophysics (IUGG). The scope of IAMAS includes the atmospheres of the Earth and other planets. IAMAS is made up of ten international commissions and one committee which together play a major role in implementing IAMAS's activities. The ten commissions cover *Atmospheric Chemistry and Global Pollution (ICACGP)*, *Atmospheric Electricity (ICAE)*, *Climate (ICCL)*, *Clouds and Precipitation (ICCP)*, *Dynamical Meteorology (ICDM)*, the *Middle Atmosphere (ICMA)*, *stratospheric Ozone (IOC)*, *Planetary Atmospheres and their Evolution (ICPAE)*, *Polar Meteorology (ICPM)*, and *atmospheric Radiation (IRC)*. The *Committee on Nucleation and Atmospheric Aerosols (CNAA)* brings together scientists covering the areas of Nucleation Theory and Experiment, Tropospheric and stratospheric aerosols, Cloud Drop and Ice Nucleation and Aerosol-Climate Interactions.

Many of these commissions play international leadership roles in their specialist areas [see <https://www.iamas.org>]. The commissions provide an important supplement and extension to the leadership and research role of the *World Meteorological Organization (WMO)*, which is the governmental body with a scientific scope that is comparable to that of IAMAS.

The current Bureau of IAMAS consists of:

- President – Joyce Penner (USA)
- Secretary General – Steven Ackerman (USA)
- Vice President – John Burrows (Germany)
- Vice President – Mary Scholes (South Africa)

The organization also has five Members at Large who promote IAMAS activities:

- Prof. Michiel R. van den Broeke (Netherlands) 2019-2023
- Prof. Mu Mu (China) 2019-2023
- Dr. Lisa Alexander (Australia) 2015-2023
- Dr. Keith Alverson (USA/Japan) 2015-2023
- Dr. Iracema Cavalcanti (Brazil) 2015-2023

a) IAMAS held a successful virtual seminar series together with the Cryosphere and Physical Oceanography Associations of IUGG (IACS and IAPSO), called Virtual Atmosphere-Cryosphere-Oceanography 2021 or VACO 2021) from July 19 – 23, 2021. The series of seminars were organized around the themes of Remote Sensing, Field Observation, Coupled Changes and Variability, Modelling atmosphere, ocean and cryosphere interactions that included one speaker

from each assembly. In addition, one day was devoted to presentations by the Early Career Medal winners from each association. More than 450 registrants participated in these seminars.

b) The next meeting of IAMAS is planned to take place together with IUGG in Berlin, Germany, from July 12 – 19, 2023. The initial planning for this meeting took place at the September, 15-16, 2021 IUGG Executive Meeting. At this time it is unclear, but it may be a hybrid virtual/in-person meeting.

d) The 2020 IAMAS Early Career Scientist Medal was awarded to Prof. Marta Abalos of the University Complutense of Madrid for her contributions in elucidating the links between stratospheric ozone, climate change, and the transport circulation in the stratosphere and upper troposphere.

e) IAMAS commissions hold a number of high profile conferences either alone or in conjunction with other organizations. IAMAS had allocated ~ 16 K€ to support these meetings in 2021. However, most of either took place or will take place virtually or have been rescheduled due to the coronavirus pandemic.

f) Much of the work of the IAMAS bureau this past year has centered around advancing the IAMAS Strategic Plan, which was adopted at the Montreal 2019 meeting. In particular, we:

- i) Formed a IAMAS Early Career Scientist Committee, which is taking a number of steps aimed at building a IAMAS community of early career scientists. Professor Jing Li of Peking University is the chair of the committee and regularly participates in the monthly zoom meetings of the IAMAS Bureau.
- ii) Developed a new IAMAS web site, which allows the Commissions to use our web site so that continuity of their sites can be maintained as Commission officers change.
- iii) Initiated periodic zoom meetings with one or two Commission leadership, to establish better Bureau-Commission communication and allow cross-Commission fertilization of ideas.
- iv) We are tracking performance on our Strategic Plan initiatives and making good progress.

For more information on IAMAS please contact :

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Submitted by Joyce Penner, IUGG/IAMAS representative to SCOR, 16 September 2021.