



ATOC COLLOQUIUM

Welcome!

Please join us for the next ATOC Colloquium on **Friday, September 18**, from **11:00 AM–12:00 PM**. This week's colloquium features **Gina Jozef and Jonathan Hamilton**, who will share their experiences from participating in the recent MOSAiC expedition. A link to join the colloquium via Zoom is provided beneath the abstract below.

Unmanned Aircraft Operations and Day-to-Day Life on MOSAiC: Legs 3 and 4

Transfer of energy between the Earth's surface and the overlying atmosphere, particularly at high latitudes, remains an area of substantial uncertainty in our understanding of the global climate system. To reduce this uncertainty, unmanned aircraft-based observations of the lower atmosphere were made during legs 3 and 4 (March through August 2020) of the MOSAiC (Multidisciplinary drifting Observatory for the Study of Arctic Climate) Expedition.

Conducting successful unmanned flight operations had its share of challenges, from working in temperatures as low as -35°C in the winter, to flying with consistent thick fog in the summer. Outside of work, there was plenty of opportunity for additional excitement, including camping on the sea ice, spotting polar bears, and barbeques with the crew. In this talk, we will share some preliminary results from the unmanned flight operations, as well as our general experiences on legs 3 and 4 of MOSAiC.



Zoom link:

<https://cuboulder.zoom.us/j/94802889201>

Password: mosaic

About the ATOC Colloquium

The Department of Atmospheric and Oceanic Sciences (ATOC) Colloquium is typically held **every other Friday** from **11:00 AM–Noon**. Colloquia alternate between the following formats: (A) Full-length talk by a faculty member or invited speaker, (B) Three conference-length talks by graduate students. If you would like to nominate a speaker (including self), please email the ATOC Colloquium Committee Chair, Prof. Jan Lenaerts (jan.lenaerts@colorado.edu). Please visit www.colorado.edu/atoc/colloquium for further details.