



ATOC COLLOQUIUM

Welcome!

Please join us for the ATOC Colloquium on **April 26**, from **11:00 AM–noon** in **SEEC S228** with **Dr. Brian O'Neill** from the University of Denver. Come early for coffee at 10:45 AM; lunch will be served after.

Does half a degree of global warming matter? Results from the BRACE1.5 study

In 2015, 195 countries negotiated the Paris Agreement on climate change, which set long-term goals of limiting global mean warming to well below 2 C and possibly 1.5 C. This event stimulated substantial scientific interest and led to a Special Report from the IPCC, published last fall, on Global Warming of 1.5 C. We recently concluded a project to produce new global climate model simulations of scenarios that stabilize warming at 1.5 and 2 C, and to investigate their potential impacts. The project, BRACE 1.5 (Benefits of Reduced Anthropogenic Climate change), asks whether impacts differ substantially between the two climate scenarios, accounting for uncertainty in climate outcomes and in societal conditions. Impact assessment focuses on extreme climate events and the health, agricultural, and building energy sectors. I discuss the BRACE 1.5 study design and key conclusions, and contrast outcomes with those from the IPCC Special Report.



About the ATOC Colloquium

The Department of Atmospheric and Oceanic Sciences Colloquium is held **every other Friday** from **11:00 AM–noon**, usually in **SEEC S228**. Colloquia will 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 and the upcoming schedule.