



ATOC COLLOQUIUM

Welcome!

Please join us for the first ATOC Colloquium of the academic year on **Friday, September 1** from **11:00 AM–12:00 PM**, which will be held in **SEEC S228 and simulcast over Zoom**. This week's colloquium features **Dr. Alexandra Jonko (LANL)**. Please join us for coffee beginning at 10:45 AM and stay for lunch catered by Illegal Pete's afterwards.

How will Future Climate Change Impact Prescribed Fire Across the United States?

The use of prescribed fire to manage ecosystems now accounts for more than 50% of area burned annually across the United States. However, changes in temperature, humidity, and wind speed associated with future climate change will impact temporal and spatial patterns of fuel loads and their flammability, as well as fire safety. In this study, we combine climate projections with information on prescribed burning windows for ecoregions across the conterminous United States to compute the number of days when meteorological conditions allow for the safe and effective application of prescribed fire today and under future climate conditions. The resulting projections indicate fewer days with conditions suitable for prescribed burning across ecoregions of the Eastern United States due to rising maximum daily temperatures, but increased opportunities in the Northern and Northwestern United States, driven primarily by rising minimum temperatures and declining wind speeds.



Location: SEEC S228 & Zoom

Zoom:

<https://cuboulder.zoom.us/j/98582201579>

Password: ATOC

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. Andrew Winters (andrew.c.winters@colorado.edu). Please visit www.colorado.edu/atoc/colloquium for further details.