

## Welcome!

Please join us for the ATOC Colloquium on March 22, 2019 from 11:00 AM–noon in SEEC S228 with Dr. Karen Kosiba from Center for Severe Weather Research. Come early for coffee at 10:45 AM; lunch will be served after.

## 43°N to 34°S: 77 degrees of weather

The Doppler on Wheels (DOW) mobile radars have been instrumental in advancing our understanding of tornado formation and structure, the boundary layer of landfalling hurricanes, the internal structure of lake effect snow bands, the gust front structure of potentially severe-wind producing MCSs, and other mesoscale phenomena. Some key findings include the existence of rear-flank downdraft surges, which may impact tornadogenesis, the existence of strong winds in some tornadoes very close to the surface, small



scale structures that may impact energy distribution and wind speeds in the near surface hurricane boundary layer, and the existence of misovortices in intense lake-effect snow bands. I will share with you the adventures (and misadventures!) of learning about tornadoes, hurricanes, winter storms, and other high impact weather from over a decade of field work...including a first look at the data collected in thunderstorms in Argentina during the RELAMPAGO project.

## 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.