





# Alison Rockwell EOL Public Engagement Specialist









# WINTER Education & Public Engagement

- School Visits
- Public Engagement
- Web Technologies
- Printed Material & Graphic Design
- Collaborations









# School Visits in Virginia

- 3 UCAR Member Universities
- 6 Historically Black Colleges and Universities
- Many Community Colleges
- Endless K-12









# WINTER Public Engagement

- Coordinate media interviews radio ,TV, & print
- Open House?



## Can you tell us a bit about DEEPAWAVE and all of the organizations that are involved?



DEEPWAVE is an atmospheric science research project studying the dynamics of gravity wave from the surface of the Earth to the upper reaches of the atmosphere. DEEPWAVE is funded to the National Science Foundation (NSF), Office of Naval Research, and Naval Research Laboratory (NRL), and operated by the National Center for Atmospheric Research (NCAR), in collaboration with the German Aerospace Center DLR, NIWA, UK Met Office, NZ MetService, NRL, and Australian Antarctic Division. The project is led by Principal Investigators from severa

US universities and research centers as well as international colleagues from New Zealand, Germany, Australia, and the UK. DEEPWAVE aircraft operations will be based in Christchurch, with six ground-sites on the South Island and one in Wellington from June-July 2014.

Gravity waves are not a commonly discussed term, can you explain what they are how might they be recognized?

A gravity wave is a disturbance in which buoyancy acts as the restoring force on parcels displaced from hydrostatic equilibrium. Waves on the ocean are examples of gravity waves, they can also be seen as ripples in clouds. Gravity waves are widely recognized to play central roles in a broad range of thermal, chemical, and physical processes extending upward from Earth's surface to the upper atmosphere.



### WINTER SOCIAL MEDIA







#### FRAPPÉ in the News

#### Ozone in Colorado mountains surprises researchers The Daily Camera | 28 August 2014

Researchers who examined air pollution along northern Colorado's Front Range said were surprised by how much harmful ozone and ozone-causing chemicals are drifting mountains from urban and rural areas below.



#### Scientists Launch Far-Ranging Campaign to Detail Front Range Air Pollution Lab Manager | 19 August 2014



Scientists at the National Center for Atmospheric Research (NCAR) and partner orga launched a major field project across the northern Front Range of Colorado last mont

## WINTER Web Technologies

- ~6 WINTER public-friendly pages
- EOL Social Media Posts



Decreased sunlight results in fewer photochemical reactions (oxidation).



Decrease in temperature keeps cool air near the Earth's surface trapping pollutants produced near the ground close to communities and the environment.



## WINTER 2015 WINTERTIME INVESTIGATION OF TRANSMISSION, EMISSIONS, AND REACTIVITY I FEBRUARY - 15 MARCH 2015

WINTER is investigating the rate of which primary pollutants, such as sulfur dioxide  $(SO_2)$ , nitrogen oxides  $(NO_x)$ , and volatile organic compounds (VOC), oxidize and move throughout the region during the winter that ultimately affect air quality and climate.

WINTER is using the NSF/NCAR C-130 research aircraft to conduct research flights in the Northeast Metropolitan Corridor, the Ohio River Valley, and the Southeast Mid-Atlantic region.



## **Printed Material & Graphic Design**

- WINTER Infocard
- WINTER Schematic















University of Colorado Boulder



## Collaborations









# Any questions?

