Weather and Climate Impacts on Military Operations Workshop

National Weather Center
120 David L Boren Blvd., Norman, OK
September 10, 2018

9:30 Welcome & Introductions (NWC 1350)
- Ask participants to think of two projects:
  1. One project that could be addressed with existing resources and knowledge
  2. One project that could be developed further into a collaborative research proposal

9:40 Military Operations & Weather Risks (NWC 1350)
- Altus Air Force Base
- Tinker Air Force Base
- Vance Air Force Base
- Fort Sill
- McAlester Army Ammunition Plant
- Oklahoma National Guard

10:40 Weather and Climate Programs (OU & National Weather Center) (NWC 1350)
- Cooperative Institute for Mesoscale Meteorological Studies
- NOAA National Severe Storms Laboratory
- NOAA Storm Prediction Center
- College of Atmospheric & Geographic Sciences
- College of Engineering
- College of Architecture
- Center for Analysis and Prediction of Storms
- Advanced Radar Research Center
- Oklahoma Climatological Survey
- South Central Climate Adaptation Science Center

12:00 Working Lunch (Atrium)

1:00 Small Group Topics Discussion (Atrium)
- Participants can visit with OU/NWC representatives for one-on-one discussions, rotating each 10 minutes
- Topics will be set up at each table:
  - Warning and Preparedness
  - Severe Storm Forecasting
  - Forecasts and Outlooks (1-30 days)
  - Climate Variability and Change
  - Preparing for Extreme Events
  - Radar Design and Applications
  - Flooding & Water Resources
  - Land Use / GIS / Remote Sensing
- Participants may also visit with other OU/NWC representatives not represented at these tables

2:00 Risks and Opportunities (Group Discussion; Atrium)

- Re-convene in a general forum to share near-term and longer-term potential projects
- Discuss overall meeting goals
  a. Identify routine weather events that have adverse impacts, such as icing on aircraft, lightning, or atmospheric turbulence;
  b. Identify critical thresholds where extreme weather events are disruptive to normal operations, such as extreme temperatures or flooding;
  c. Explore how improvements in seasonal to sub-seasonal forecasts can improve preparedness and operations;
  d. Examine how climate change may affect future risks; and
  e. Identify opportunities for research in engineering systems and atmospheric studies.

2:40 Next Steps & Recommendations (Atrium)

3:00 Adjourn

3:15 Combined Tour of the National Weather Center and the Radar Innovations Laboratory (Optional)