Unmanned Aerial System Weather Forum

Moderated by Matthias Steiner

https://ral.ucar.edu/events/uaswf

Co-located Partner Event at AUVSI’s XPONENTIAL
30 April 2018, Denver, CO
The UAS Weather Forum provides a platform for UAS operators; federal & state agencies; weather researchers & providers; trade groups; safety & insurance groups; UAS manufacturers; & others to:

• Share experiences with expected & unexpected weather impacts
• Engage in a dialogue about weather needs for UAS operations
• Collect requirements for developing better weather guidance
• Cultivate strategies on how to make progress with needed weather support
• Assist regulators with safe integration of UAS into the national airspace system considering weather impacts
• Explore opportunities for using UAS-sensed environmental information for enhanced situational awareness & better weather prediction
• Facilitate weather education & outreach
Do you understand performance limitations of your UAS?
Do you understand environment you are operating in?

Thunderstorms

Urban Canyons

50 km

1 km

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- Disaster response – UAS support in all weather conditions
  Ryan Henderson, University of Maryland

- Exploit the weather for battle – A USAF perspective on the importance of weather in UAS mission planning
  John Radovan, United States Air Force

- Weather & beyond visual line of sight operations
  Catherine Bramlett, BNSF Railway Company

- Commercially available weather solutions & associated challenges
  Anuj Agrawal and Mark Hoekzema, Earth Networks

- Ultra-high resolution weather support for small UAS operations
  James Pinto, National Center for Atmospheric Research

- Opportunities provided by fine-scale meteorological sensor array
  Robb Randall, Army Research Laboratory

- Real-time urban weather & air quality mapping
  Joe Burns, Sensurion Aerospace

- Weather sensing for UAS flight optimization
  Mahdi Ghanei, Hamzh Albar, and Wilson Hughes, University of Colorado Boulder

- Open Discussion
SAVE THE DATE 23-24 October 2018

Weather
Automated Vehicles
& the Future

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AUTOMATED VEHICLES & METEOROLOGY SUMMIT

Bringing together the weather enterprise, advanced driver assistance system, and aerial and surface automated vehicle industries to discuss meteorological needs and impacts