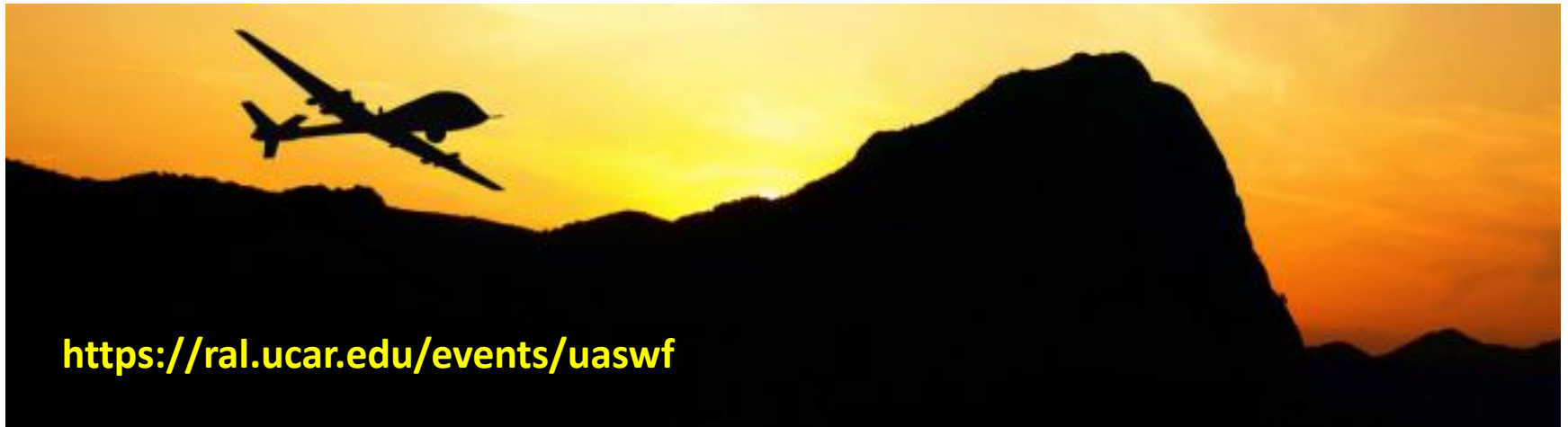


Unmanned Aerial System Weather Forum

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:

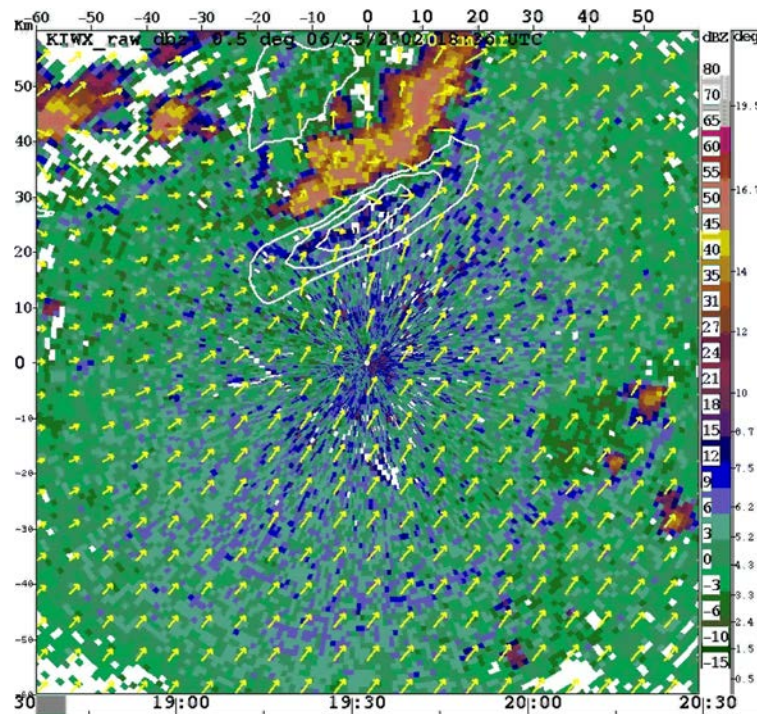
- Share experiences with expected & unexpected weather impacts
- Engage in a dialogue about weather needs for UAS operations
- Collect requirements for developing better weather guidance
- Cultivate strategies on how to make progress with needed weather support
- Assist regulators with safe integration 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?



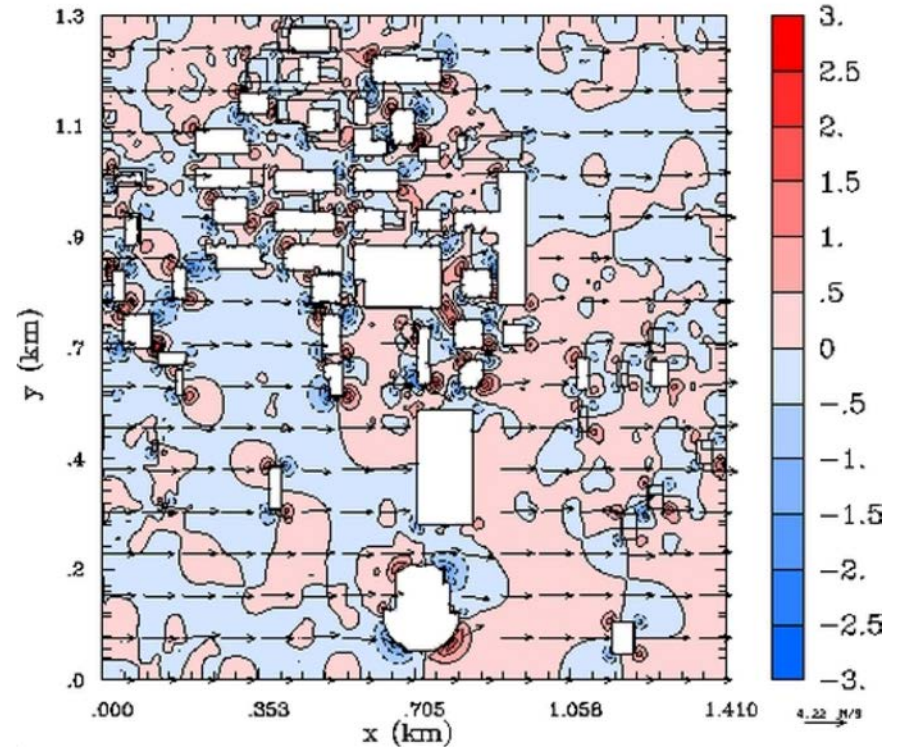
Do you understand environment you are operating in?

Thunderstorms



50 km

Urban Canyons



1 km

- 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

Weather

Automated Vehicles

& the Future



NTSB Auditorium | Washington, D.C.

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