



**FAA  
Portfolio Management & Technology Development Office  
Aviation Weather Division**

**Aviation Weather Research Program  
Clouds, Cloud Ceiling, and Visibility (C&V) Technical Exchange  
Meeting**

Wednesday, July 13, 2022

National Center for Atmospheric Research

[NCAR / UCAR - Center Green Campus – CG1 South Auditorium](#)

[3090 Center Green Dr. Boulder, CO 80301](#)

This meeting will be held in-person and virtually through Zoom. In-person participants must register to attend.

**Zoom Information:** <https://us02web.zoom.us/j/85351278686>

**Register Today** (required for in-person attendance) at <https://ral.ucar.edu/events/2022/aviation-weather-technical-exchange-meeting>

All times listed are Mountain Time (MT).

**8:00-10:00 Panel on Importance of C&V for Aviation**

**8:00** Welcome – **Jenny Colavito**, FAA

Virtual **8:10** Importance of C&V for aviation – **Don Eick**, National Transportation Safety Board (NTSB)

**8:30** Panel Introductions

*Panel Members will introduce themselves and briefly describe their role related to C&V and aviation (5-minute limit).*

**Tom George**, Alaska Regional Manager, Aircraft Owners & Pilots Association

**Matt Johnson**, Check Airman, Instructor & Weather Focal Point, Metro Aviation Incorporated

Virtual **Nathan Polderman**, Senior Manager for Meteorology and Dispatch Operations, United Airlines

Virtual **Don Berchoff**, CEO Truweather Solutions

Virtual **Ken Venzke**, Meteorologist In Charge, Oakland California Air Route Traffic Control Center (ZOA), Center Weather Service Unit (CWSU), National Weather Service (NWS)

Virtual **Don Eick**, NTSB Accident Investigator

**9:00-10:00** Panel question & answer session led by **Jenny Colavito**, FAA

**10:00-10:15 Break**

**10:15-12:00 Use of Satellites**

*Speakers will give 15-minute presentations followed by 5 minutes for questions.*

**10:15** Overview of Cooperative Institute for Research in the Atmosphere (CIRA) satellite research with focus on cloud & aerosol topics related to aviation and visibility – **Steve Miller**, Colorado State University

**10:35** Satellite-based 3D cloud structure and interactions with aviation users – **Yoo-Jeong Noh**, Colorado State University

Virtual **10:55** Satellite cloud mask – **Michael Foster**, University of Wisconsin - Madison

**11:15 Mini Break (5 minutes)**

Virtual **11:20** Aviation Weather Center (AWC) use of satellite cloud data – **Ty Higginbotham**, Colorado State University

**11:40** LAMP Developments: use of satellite data for improving LAMP between the stations – **Allison Layne**, NWS Meteorological Development Laboratory (MDL)

### **12:00-1:15 Lunch**

### **1:15-2:15 Use of Surface Observation:**

*Speakers will give 15-minute presentations followed by 5 minutes for questions*

**1:15** Overview of Visibility Estimation through Image Analytics (VEIA) on FAA Weather Camera website, operational transition process, and what's coming next – **Michael Matthews**, Massachusetts Institute of Technology, Lincoln Laboratory

**1:35** Overview of FOGMAP: Using targeted observations with UAS to improve local fog predictions – **James Pinto**, NCAR

**1:55** Ceilometer backscatter profile use for C&V – **Josh Lave**, NCAR

**2:15 Mini Break (5 minutes)**

### **2:20-3:20 Display of C&V for Users:**

*Speakers will give 15-minute presentations followed by 5 minutes for questions*

Virtual **2:20** Cloud layers and the presentation of C&V info to users – **Austin Cross and Rob Hepper**, AWC

**2:40** LAMP prototype displays for the onset and cessation of flight categories – **Andrew Kochenash and Judy Ghirardelli**, MDL

**3:00** Weather Technology in the Cockpit (WTIC) – **Gary Pokodner**, FAA

### **3:20-3:35 Break**

### **3:35-4:35 Improving Models for C&V**

*Speakers will give 15-minute presentations followed by 5 minutes for questions*

Virtual **3:35** 3D Real Time Mesoscale Analysis (RTMA) – **Manuel Pondevca**, NWS Environmental Modeling Center (EMC)

Virtual **3:55** Cloud assimilation and representation in the Rapid Refresh Forecast System (RRFS) and 3DRTMA – **Terra Ladwig**, NOAA Global Systems Laboratory (GSL)

**4:15** Increasing the temporal resolution of LAMP C&V – **Phil Shafer**, MDL

**4:35 Mini Break (5 minutes)**

### **4:40-5:00 Wrap-Up**