

Friends & Partners in Aviation Weather

Planning for Fall 2020 & Spring 2021 Meetings



Matthias Steiner

National Center for Atmospheric Research
msteiner@ucar.edu

Matt Fronzak

The MITRE Corporation
mfronzak@mitre.org

16 April 2020 Virtual Meeting

FPAW Planning

2020 FPAW Fall Meeting

- Dates: 14 – 15 October 2020
- Location: NCAR Center Green Facility in Boulder, CO

2021 FPAW Spring Meeting

- Dates: tbd, depending on NTSB availability
- Location: NTSB Conference Center, L'Enfant Plaza, Washington, DC

2021 FPAW Fall Meeting

- Dates: tbd, late October or early November
- Location: NSSL in Norman, OK

Topic #1

- Winter weather (half day)
Lead(s): Joshua Paurus, MSP Airport & Gordy Rother & John St. & Matt Tucker)
 - preparation for & management during winter weather events (traffic flow, airport & airline perspectives)
 - update on specific projects, like runway friction at MSP & DEN
 - update on regulations & procedures, etc. NOTAMs on runway condition code

Topic #2

- _____ Newly available graphical weather tool in cockpit & CDM – Rocky Stone, Matt Tucker, Mark Phaneuf, John Kosak

Topic #3

- _____ Opportunities arising from pandemic's pause & reset – Mike Robinson, Matt Fronzak, Matthias Steiner, Gordy Rother [half day]

Updates & keeping track of ongoing topics – Tom Ryan

- Including FAA Weather COI
- ADS-B V3 update
- VWOS update

2021 FPAW Spring Meeting

Topic #1

FAA, NOAA/NWS, FEMA, Navy, USAF, NASA, USGS, Army

- Aviation weather activities across federal agencies (half-full day)
Lead(s): David Chorney, OFCM & probably others
 - overview & highlight of agency activities (roadmaps, research & operations)
 - panel discussion on coordination & collaboration opportunities

Topic #2

- ——— FAA Weather Community of Interest – Bill Bauman, Alfred M., Kevin Johnston, David Strand

Topic #3

- ———
State/future of forecasting science & benefits on decisions – Steve Abelman, Jose Garcia, Matt Eckstein [half or full day?]

Updates & keeping track of ongoing topics – Tom Ryan

List of General Topics

Emerging modes of transportation

- Unmanned aerial systems, urban air mobility
- Supersonic flight, commercial space launch (space weather)

Weather integration

- Trajectory-based operation, flight planning, optimization, etc.
- Decision-making under uncertainty
- Uncertainty characterization of weather, traffic, etc.
- Weather, human factors, automation

Weather observations

- PIREPs, ADS-B, webcam (VWOS)
- Augmentation of surface observations
- Mandate to equip aircraft & share weather observations
- Visualization & use of data & information

Weather in cockpit

- CDM in cockpit
- Bring in pilots to solicit their concerns & what they would benefit from

Climate change impacts on infrastructure

- Increased temperatures, sea level rise, etc.
- Changing storms, more turbulence, lightning, etc.

General updates

- Research & development from labs, industry, etc.
- Policy, procedures, Weather Community of Interest/Practice, gathering of requirements
- Funding challenges

Format:

- Substantial session on topic
- Brief update session
- Use of social media
- Quarterly meetings

Fall 2020

Spring 2021

Session Topics

Invitation to key people
from FAA, NWS, NASA, USAF

Weather observations from ground to space – Steve Darr

Opportunities arising from pandemic's pause & reset – Mike Robinson,
Matt Fronzak, Matthias Steiner, Gordy Rother [half day]

State/future of forecasting science & benefits on decisions – Steve Abelman,
Jose Garcia, Matt Eckstein [half or full day?]

Newly available graphical weather tool in cockpit & CDM – Rocky Stone, Matt Tucker,
Mark Phaneuf, John Kosak

Maybe stand-alone meeting Jan/Feb? ARAM session 10-14 Jan 21 in New Orleans?

Public private partnerships facilitating new entrants – Bill Watts, Justin Hilliard

Look ahead of UAS/UTM/UAM & Wx Standards – Marilyn Pearson, Don Berchoff

FAA Weather Community of Interest – Bill Bauman, Alfred M., Kevin Johnston,
David Strand maybe short update during Fall meeting

Updates & keeping track of ongoing topics – Tom Ryan