



Baltimore/Washington Weather Forecast Office (WFO/LWX) Aviation Customers Forum

**Dulles International Airport, Virginia
November 13, 2019**



Aviation Customers Forum

FORUM GOALS:

- Enhance communication and strengthen partnerships between the National Weather Service (NWS) and the mid-Atlantic aviation community
- Discuss ways to improve NWS aviation forecast operations and services in the mid-Atlantic
- Receive feedback from aviation core customers
- Establish best practices for mid-Atlantic aviation forecasts and services
- Review of a few high-impact aviation events
- Provide insight on the future of NWS Aviation Services



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- **SESSION 1: 9:15 – 1045 AM**
- **Overview of NWS Services Supporting Commercial Aviation Operations**
 - **Moderator: Mr. Steven Zubrick**
 - **Science & Operations Officer/LWX Aviation Program Coordinator**
 - **NWS Baltimore/Washington Weather Forecast Office, Sterling, VA**
- Session Goal: *Provide a comprehensive overview of NWS Aviation Services*
 - *9:30 AM – WFO Baltimore/Washington (Andrew S/WFO-LWX)*
 - *9:50 AM – Center Weather Service Unit (Rick W/CWSU-ZDC)*
 - *10:10 AM – Aviation Weather Center (AWC) & National Aviation Meteorologists (NAMs) (Jonathan Leffler/AWC)*
 - *10:30 AM – Break*

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- **SESSION 2: 10:45 AM - NOON**
- **Overview of NWS Digital Aviation Services: How Terminal Aerodrome Forecasts are Generated at WFO LWX**
 - **Moderator: Mr. Andrew Snyder**
 - **WFO LWX Aviation Program Coordinator**
 - **NWS Baltimore/Washington Weather Forecast Office, Sterling, VA**
- *Session Goal: Provide a general understanding of how aviation forecasts are prepared at WFO LWX and CWSU ZDC*
 - *10:45 AM – WFO Baltimore/Washington Perspective (Andrew)*
 - *11:30 AM – Enroute Services Provided by CWSU ZDC (Rick)*
 - *NOON – 1 PM ** LUNCH ** (on your own)*

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- **SESSION 3: 1:00 – 3:45 PM**
- **Facilitated Open Discussion**
 - **Moderator: Mr. Christopher Strong**
 - **WFO LWX Warning Coordination Meteorologist**
 - **NWS Baltimore/Washington Weather Forecast Office, Sterling, VA**
- *Session Goals:*
 - *Develop ideas on how to improve aviation weather services*
 - *Develop ideas how to enhance communications for aviation operations*
 - *Better understand FAA Operations and their sensitivities to adverse weather*
 - *Better understand commercial airline's sensitivities to adverse weather*

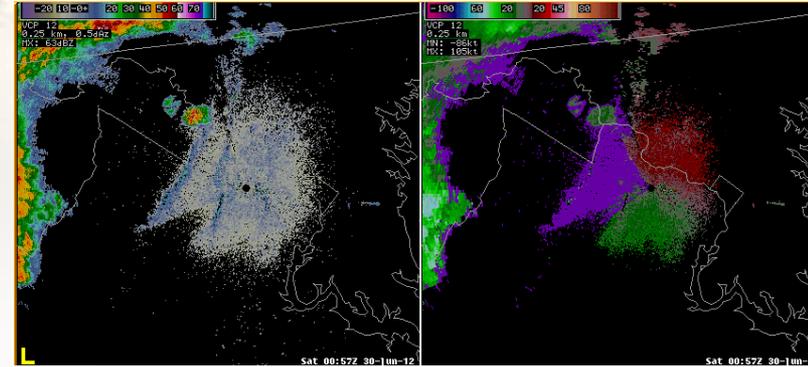
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SESSION 3: 1:00 – 3:45 PM

Three Discussion Topics:

- 1. Convective Weather (1:00-1:45 PM)***
- 2. Winter Weather (2:00-2:45 PM)***
- 3. Winds/CIGS/VSBYs (3:00-3:45 PM)***

Each discussion topic is kicked off with a short (~10 min) case review of a high-impact aviation event representing that specific adverse weather topic followed by discussion.



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- **SESSION 4: 4:00 – 5:00 PM**
- **The Future of NWS Aviation Services**
 - **Moderator: Mr. Christopher Strong**
 - **WFO LWX Warning Coordination Meteorologist**
 - **NWS Baltimore/Washington Weather Forecast Office, Sterling, VA**
- Session Goal: : *Provide attendees with the future vision of NWS Aviation Services*
 - *4:00 PM – Bruce Entwistle, NWS/AWC*
 - *4:45 PM – Summary/Conclusions/Action Review – Chris*
 - *5:00 PM - ADJOURN*



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 - *10:10 AM – Aviation Weather Center (AWC) & National Aviation Meteorologists (NAMs) (Jonathan L)*
 - *10:30 AM – Break*



BREAK 10:30 – 10:45 AM

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 - *NOON – 1 PM LUNCH (on your own)*



LUNCH
NOON – 1:00 PM

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SESSION 3: 1:00 – 3:45 PM

- **Facilitated Open Discussion**

- Moderator: Mr. Christopher Strong
- WFO LWX Warning Coordination Meteorologist (WFO/LWX)



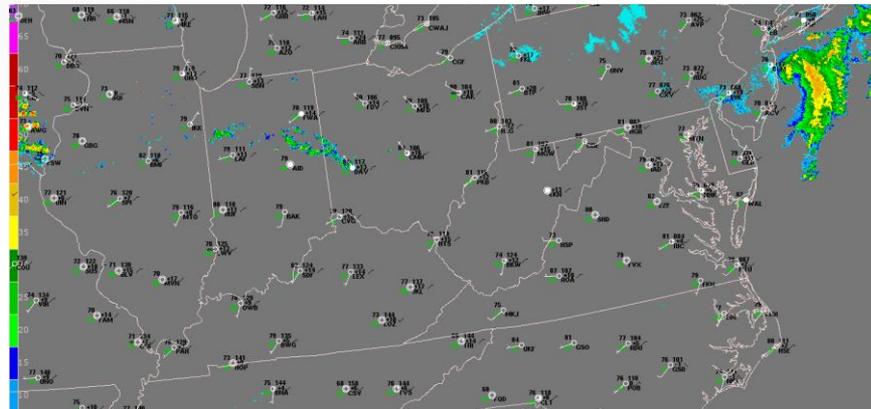
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- *Better understand commercial airline's sensitivities to adverse weather*



Three Discussion Topics:

1. **Convective Weather**
2. **Winter Weather**
3. **Winds/CIGS/VSBYs**



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SESSION 3: 1:00 – 3:45 PM

Each discussion topic is kicked off with a short (~10 min) case review of a high-impact aviation event representing that specific adverse weather topic followed by discussion.

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SESSION 3: 1:00 PM – 3:45 PM

1:00 – 1:45 PM:

DISCUSSION TOPIC 1:

Convective Weather

– *Kickoff Presentation:*

- *Convective Case Study, Sean Campbell, CWSU/ZDC Met.*

– *Discussion Leaders:*

- *Rick Winther (CWSU/ZDC)*
- *Vern Payne, TMO/Mid-Atlantic*



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SESSION 3: 1:00 PM – 3:45 PM

2:00 – 2:45 PM

DISCUSSION TOPIC 2:

Winter Weather

– *Kick-off presentation:*

- *Correlation between Snowfall and Operational Airport Efficiency, Michael Matthews, CWSU/ZDC Meteorologist*

– *Discussion Leader:*

- *Steve Zubrick (SOO/WFO LWX, Sterling, VA)*



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SESSION 3: 1:00 PM – 3:45 PM

2:00 – 2:45 PM

DISCUSSION TOPIC 3:

Winds/CIGS/VSBY



– *Kick-off presentation:*

- *Wind/CIG/VSBY case study, Andrew Snyder, WFO/LWX Met.*

– *Discussion Leader:*

- *Andrew Snyder (SOO/WFO LWX, Sterling, VA)*



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SESSION 3: 1:00 PM – 3:45 PM

1:00 – 1:45 PM:

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Convective Weather

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– *Discussion Leaders:*

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Afternoon Topic 1: Convective Weather

- 1. How can the NWS serve you better?***
- 2. What aspects of convective weather impact your operations the most? And what's your most common issue?***
- 3. What's the best way to include TSTMs in a TAF?***
- 4. How would you like forecast information to be communicated (deterministic vs probabilities)***
- 5. For Tower/TRACON/ARTTC users, how can the "Pre-Duty Weather Briefing" be enhanced***



BREAK 1:45 – 2:00 PM

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SESSION 3: 1:00 PM – 3:45 PM

2:00 – 2:45 PM

DISCUSSION TOPIC 2:

Winter Weather

– Kick-off presentation:

- Correlation between Snowfall and Operational Airport Efficiency, Michael Matthews, CWSU/ZDC Meteorologist*

– Discussion Leader:

- Steve Zubrick (SOO/WFO LWX, Sterling, VA)*





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Afternoon Topic 2: Winter Weather

- 1. How can the NWS serve you better?***
- 2. What aspect of winter weather impacts your operations the most? And what is your most common issue?***
- 3. What's the best way to include snow/ice in the TAF?***
- 4. How would you like forecast info to be communicated (deterministic vs probabilities)***
- 5. For Tower/TRACON/ARTTC users, how can the "Pre-Duty Weather Briefing" be enhanced***



BREAK 2:45 – 3:00 PM

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SESSION 3: 1:00 PM – 3:45 PM

2:00 – 2:45 PM

DISCUSSION TOPIC 3:

Winds/CIGS/VSBY



– *Kick-off presentation:*

- *Wind/CIG/VSBY case study, Andrew Snyder, WFO/LWX Met.*

– *Discussion Leader:*

- *Andrew Snyder (SOO/WFO LWX, Sterling, VA)*



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Afternoon Topic 3: Winds/CIGS/VSBY

- 1. How can the NWS serve you better?***
- 2. What aspects impact your operations the most? And what is your most common issue?***
- 3. How can we better convey uncertainty in wind/CIG/VSBY forecasts?***
- 4. How would you like forecast info to be communicated (deterministic vs probabilities)***



BREAK 3:45 – 4:00 PM

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SESSION 4: 4:00 – 5:00 PM

- **The Future of NWS Aviation Services**

- Moderator: Mr. Christopher Strong
- WFO LWX Warning Coordination Meteorologist
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- Session Goal: : *Provide attendees with the future vision of NWS Aviation Services*

- 4:00 PM – Bruce Entwistle, NWS/AWC
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Summary/Adjourn 4:45 – 5:00 PM

Thank You

