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
Aviation Customers Forum

• 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
Aviation Customers Forum

• 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)
Aviation Customers Forum

• 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
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
**Aviation Customers Forum**

- **SESSION 1: 9:15 – 1045 AM**
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  - 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 to attendees
  - 9:30 AM – WFO Baltimore/Washington (Andrew S)
  - 9:50 AM – Center Weather Service Unit (Rick W)
  - 10:10 AM – Aviation Weather Center (AWC) & National Aviation Meteorologists (NAMs) (Jonathan L)
  - 10:30 AM – Break
BREAK 10:30 – 10:45 AM
Aviation Customers Forum

• SESSION 2: 10:45 AM - NOON
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LUNCH
NOON – 1:00 PM
Aviation Customers Forum

SESSION 3: 1:00 – 3:45 PM

• Facilitated Open Discussion
  – Moderator: Mr. Christopher Strong
  – WFO LWX Warning Coordination Meteorologist (WFO/LWX)

Session Goals:
• Develop ideas on how to improve aviation weather services
• Develop ideas how to enhance communications for aviation operations
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Three Discussion Topics:
1. Convective Weather
2. Winter Weather
3. Winds/CIGS/VSBYs
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.
Aviation Customers Forum

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
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)
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)
Aviation Customers Forum

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
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
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)
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
Aviation Customers Forum

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)
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
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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  - 5:00 PM - ADJOURN
Summary/Adjourn 4:45 – 5:00 PM
Thank You