



Weather Evaluation Team (WET)

“Operational Bridging”



Tom Lloyd, JetBlue Airways

Presented to FPAW

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Operational Bridging (OB)

- **What is OB?**
 - Forecasting processes
 - Meteorology/TFM decision maker engagement protocols
 - Communication tools
- **Accelerate the transition of forecasts to decisions**
- **Evolve the CCFP concept**
- **Demonstrate NextGen weather concepts**
 - Single Authoritative Source
 - Automation driven forecasts with human-over-the-loop



Operational Bridging, Convective Weather Forecasts and ATM Decision Making

TFM

Probabilistic

ATMITL

(provider and user)

ATC

Near Deterministic



Might or might not
Low to medium
confidence

Operational Bridging
MITL

Will or will not
High confidence

LCH

CCFP

CIWS

ITWS

CoSPA

Strategic Decision
Making

???

Tactical Decision
Making

8+ hours

~4 hours

~2 hours

~20 minutes

Image: Mitre

Operational Bridging

- **Operational Bridging Meteorologist(s)**

- Facilitated with remote participation: FOCs, CWSUs, others
- Understands NAS elements and processes
- Tunes forecast to critical times/areas of impact

- **Initiates the process within 4 hours of weather impact**

- Aviation Weather Statement (AWS)
- Continuous collaboration as situation evolves



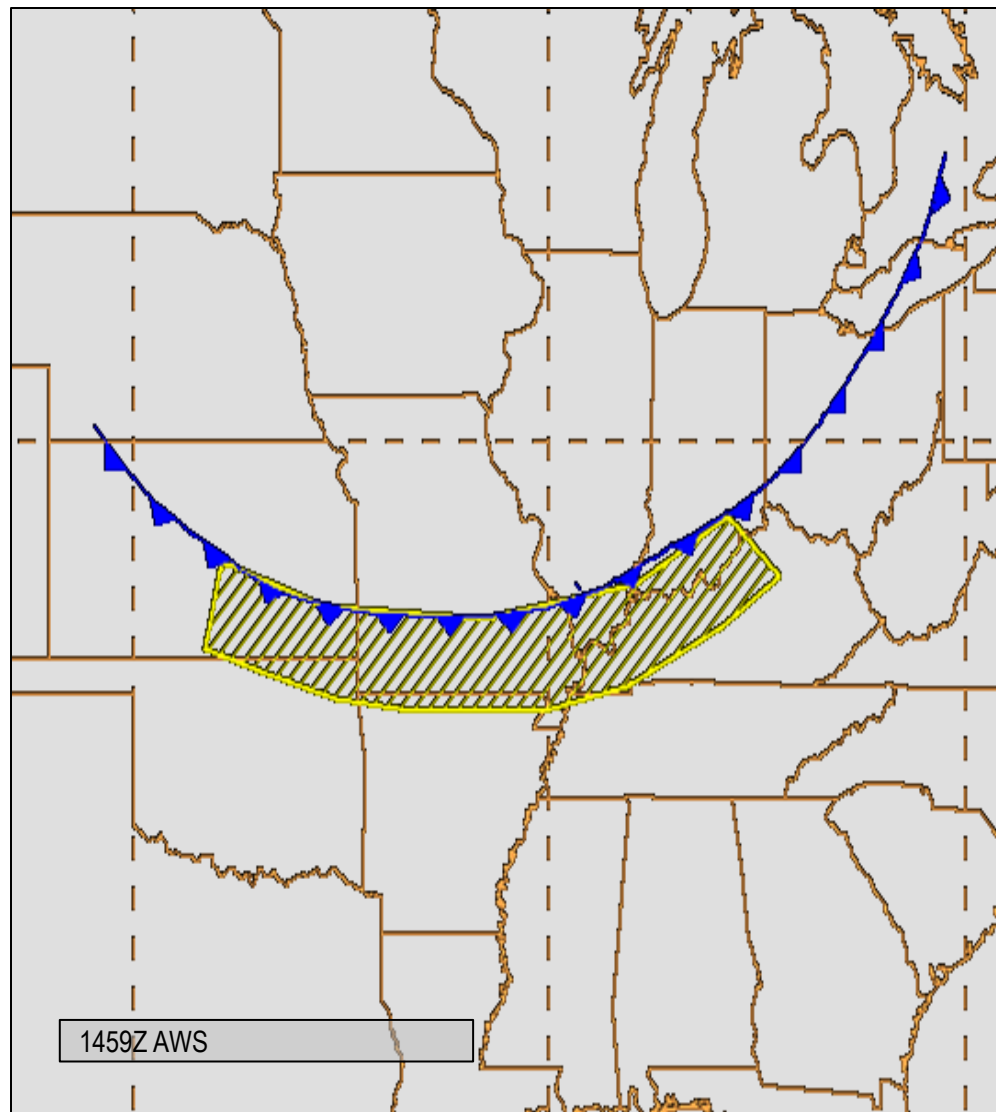
Aviation Weather Statement (AWS)

AVIATION WEATHER STATEMENT
NWS AVIATION WEATHER CENTER KANSAS CITY
1459Z WED AUG XX, 2011

ARTCCS AFFECTED...ZKC/ZME/ZID

IMPACT...SRN RE-ROUTES AROUND THIS AREA
WILL BE IMPACTED BY CONVECTION OVER
MS/AL/LA.

DISCUSSION... DISAGREEMENT BETWEEN CCFP
AND COSPA. COSPA INDC CURRENT
CONVECTION OVER KS/SRN MO TO DIMINISH
OVR NEXT SEVERAL HOURS. NEW MODEL
GUIDANCE SUGGESTS INSTABILITY WILL REMAIN
STRONG ALONG COLD FRONT. CONCERNED
THAT THE COSPA IS NOT PICKING UP ON THIS.
MET CONSENSUS IS THAT CONVECTION WILL
CONTINUE THROUGH 21Z AND EVEN INCREASE
IN COVG AND INTENSITY. TOPS OF 450 AND
STORM MOTION ENE 20-25 KNOTS.



1459Z AWS

Ongoing Activities

- **Table-top demonstration in May provided positive feedback to move forward**
- **Operational demonstration: August 2011**
- **Next steps**
 - Transition to operational
 - CCFP changes: "shift right," move toward automation driven

