



FAA-NWS Aviation Weather Weather Policy and Product Transition Panel

Friends and Partners in Aviation Weather

October 22, 2014



FAA

Agenda

- Background and Motivation for two separate activities
 - ✦ *Collaborative Decision Making (CDM) Weather Evaluation Team (WET)*
 - ✦ *Aviation Weather Requirements Working Group (ARWG)*
- Status Update since last Fall for both activities
- Path Forward for both activities

CDM-WET

Background and Motivation

- Collaborative Convective Forecast Product (CCFP) has been the primary product for Traffic Managers to build daily National Airspace plan for last 15 years
- CDM community see's opportunity for meteorology community to provide event-specific forecasts of impact information which will help Traffic Managers make more proactive decisions
 - ✦ WET developing the Collaborated Aviation Weather Statement (CAWS)—text /graphical product seen as the evolution of CCFP
- Scheduled product required for scheduled Strategic Planning Calls
 - ✦ Assumption: No growth in government and industry meteorologists—scheduled output needs to be automated



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Next**GEN**

CDM-WET Status Update

- CDM Leadership has provided direction—several decision briefs throughout the year
- Initial “Statement of Needs” for CAWS and scheduled automated product formally transmitted from FAA to NWS in July 2014
- NWS developed automated convective output (experimental product)
- WET/NWS finalizing CAWS look and feel—will be treated as a ATCSCC Advisory
- NWS negotiating with NWSEO



CDM-WET Path Forward

- Start new, automated CCFP November 1
- CAWS begins March 1, 2015 in place of CCFP collaboration, with or without AWC support
- Significant training and familiarization over the winter
- Need NWS commitment on the CAWS by this December, so if they cannot provide due to labor issues, we can solicit other CDM players to lead effort



ARWG

Background and Motivation

- Established in 2012 at the request of FAA's COO, and agreed-to by the Director of NWS, ARWG builds upon prior efforts by the *Traffic-Flow Management (TFM) Requirements Working Group (TRWG)*
- ARWG is tasked with reviewing all weather information produced by NWS for aviation purposes
 - ✦ Many NWS weather products are decades old with little change in format, and without performance requirements or measures
- ARWG's goal is to improve NWS products in-support of aviation weather
 - ✦ Increase emphasis on digital products and focus the activities of NWS forecasters on maximizing operational benefit



ARWG

Background and Motivation

- Identify NWS products and services in support of aviation weather with duplicative or overlapping information
- Identify NWS products and services that have limited utility to operators
- Identify opportunities for digitizing legacy NWS products and services
- Identify opportunities to transition existing NWS products and services to graphical information for little or no cost



ARWG Status Update

- ARWG agreed with initial focus on six Area Forecasts (FAs) for the CONUS and one for Hawaii; alternative products identified
- FAA provided announcement in the Federal Register of intent to discontinue these FAs
 - ✦ Comments were mostly favorable
- GA/JSC supports in broader effort to improve weather information for GA



ARWG

Path Forward

- Safety Risk Assessment planned for November 13, 2014
- Working changes with Flight Services and LHM
- Working with Flight Standards on training for alternative products—will be added to AC 00.45G
- FAA plans to formally recommend that NWS discontinue producing and for operators to use digital and graphical alternatives already produced by the NWS
- Targeting mid 2015 for transition



Backup slides



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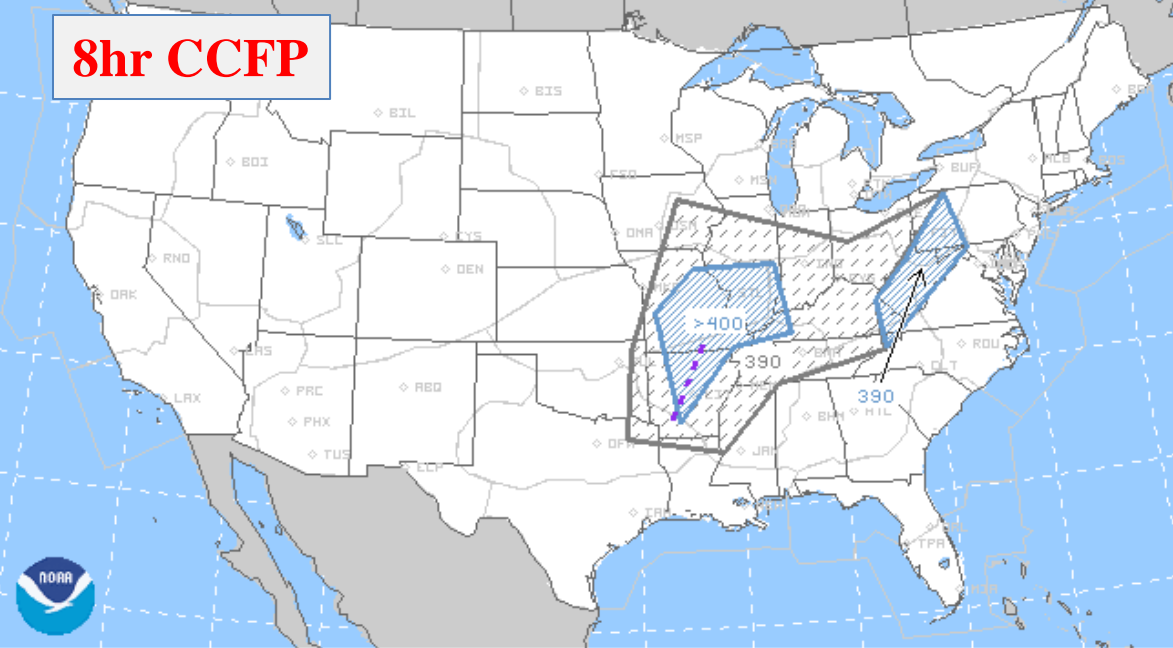
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Graphical Output Comparison

COLLABORATIVE CONVECTIVE FORECAST PRODUCT

VALID: 0100 UTC FRI 04 APR 2014

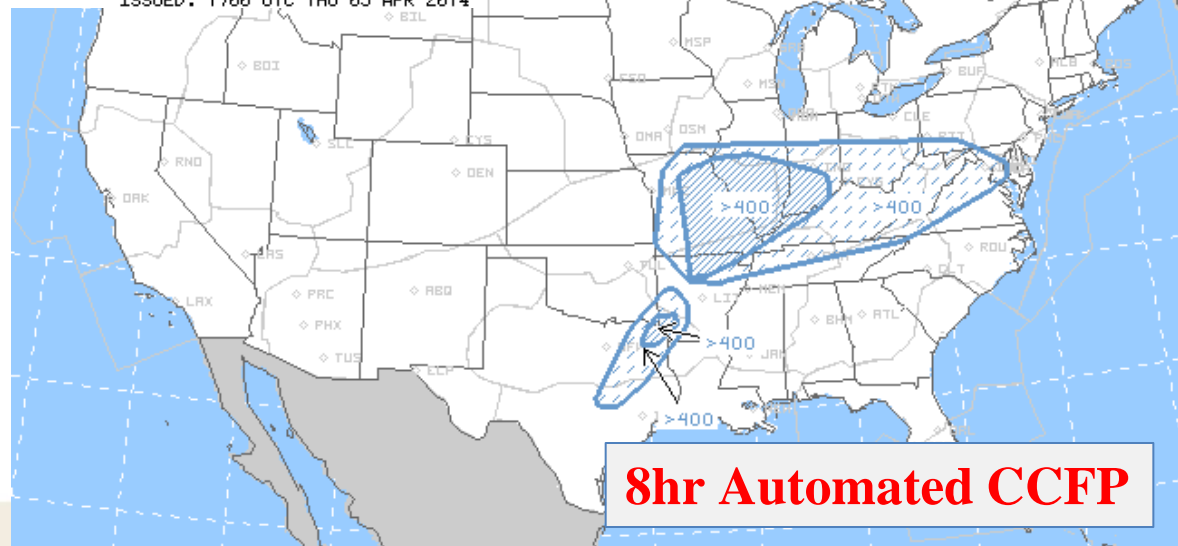
8hr CCFP



AVIATION WEATHER CENTER (NOAA/NWS/NCEP)

VALID: 0100 UTC FRI 04 APR 2014

ISSUED: 1700 UTC THU 03 APR 2014



8hr Automated CCFP

AVIATION WEATHER CENTER (NOAA/NWS/NCEP)

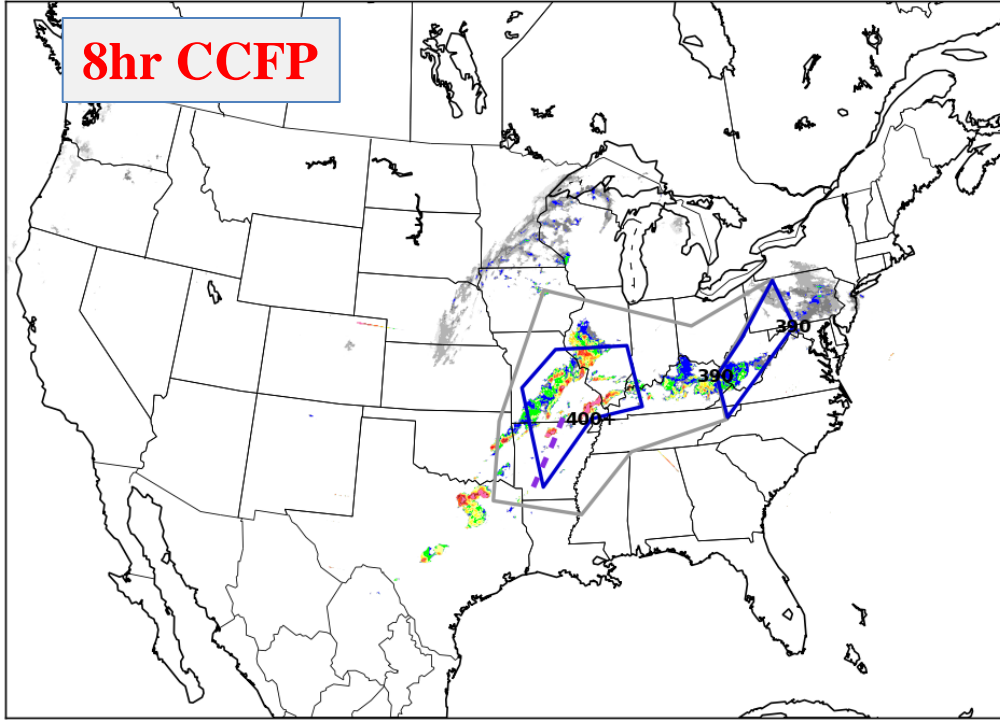
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Initial Performance Comparison

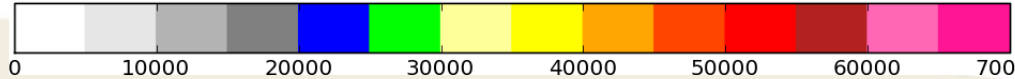
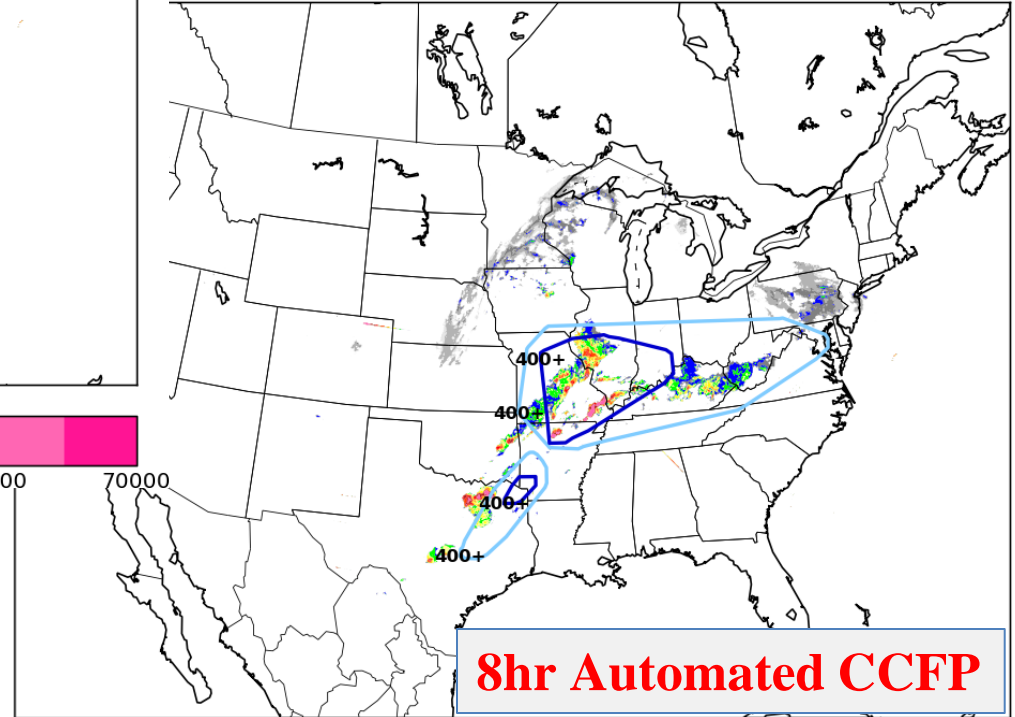
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8hr CCFP

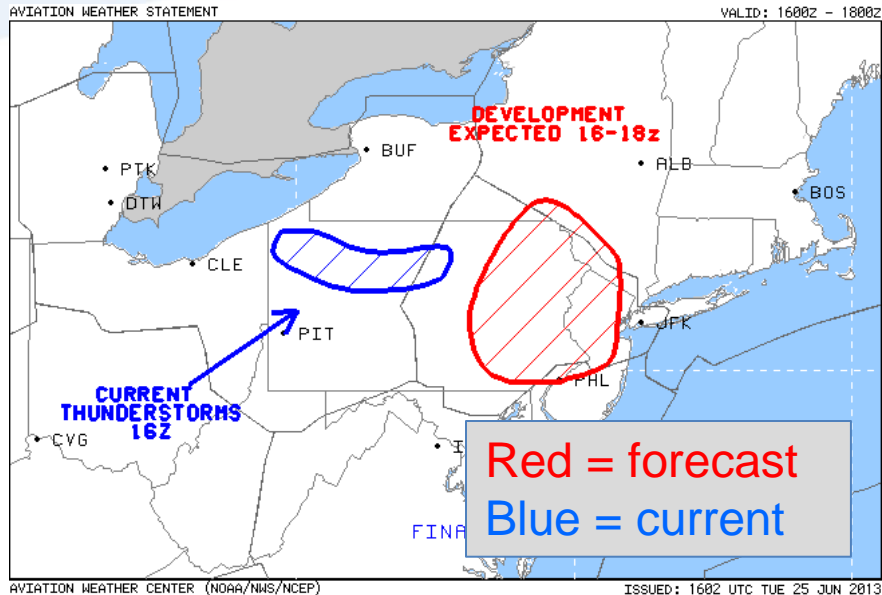


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8hr Automated CCFP



CAWS Standardization for Convection



- AWS number (resets at 00Z)
- Issuance and valid times
- NAS elements affected (ARTCCs, TRACONS, tagged metadata)
- Timing/duration
- Location
- Structure
- Movement
- Product references (CoSPA etc)
- Density/Coverage
- Echo Tops
- Growth/Decay

