



Recent Initiatives in support of Air Traffic Management

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Friends and Partners of Aviation Weather Forum
October 21, 2010
Atlanta, Georgia



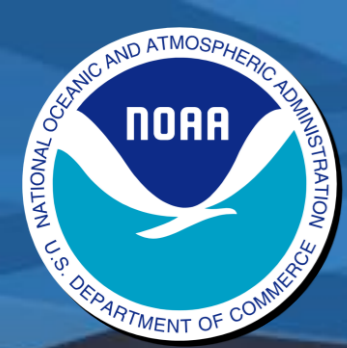
Initiatives

- **NWS initiatives to improve weather information for decision-makers**
 - ▢ ***3-hourly TAFs***
 - ▢ ***Golden Triangle Initiative***
 - ▢ ***Convective TRACON Gate Forecast***

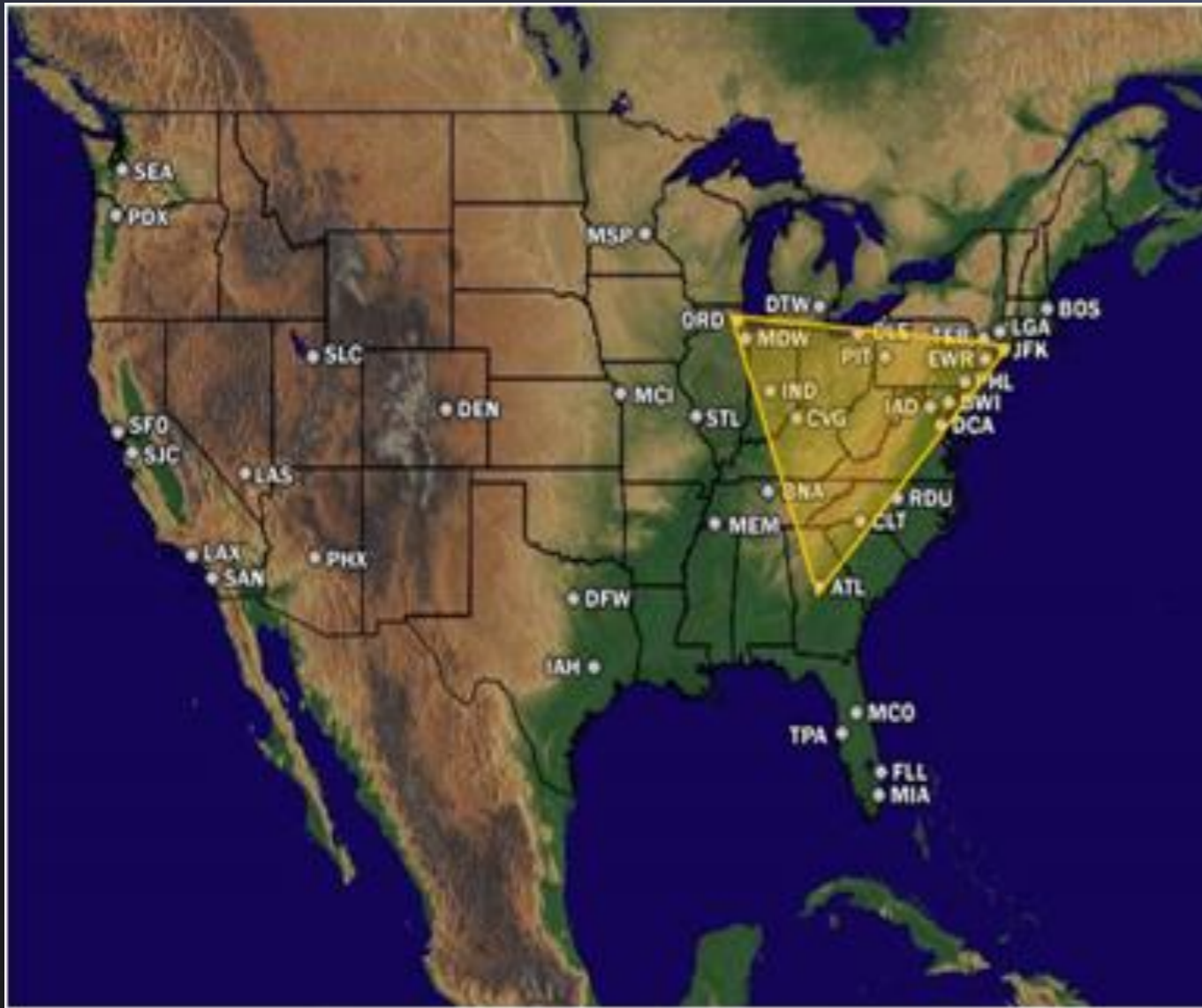


3-Hourly TAF Amendments

- **TAFs for 35 Major Airports**
 - ▢ *Issued every 3 hours*
 - ▢ *Issued as an amendment*
 - ▢ *Issued even when no changes to the forecast*
 - ▢ *Provides updated information to the user*



Golden Triangle Initiative



- **Summer 2009 convection in most congested airspace created massive delays**
- **FAA asked NWS for services aimed at air traffic decision making for high-impact events**
- **NWS response: focused weather support to most sensitive area bounded by Chicago, New York, and Atlanta**



Golden Triangle Initiative

- **At minimum Chicago, New York, and Atlanta Weather Forecast Offices issue TAFs every 2 hours 16/5 and every 3 hours on weekends**
- **CWSUs provide tactical decision aids for**
 - ▣ *convection*
 - ▣ *Icing*
 - ▣ *vertical winds for compression*
- **WFOs and CWSUs collaborate more frequently**
 - ▣ *Results in more consistent weather information*
- **CWSUs monitor FAA strategic planning calls**
 - ▣ *Helps to focus on the problem of the day*



Golden Triangle Initiative: Early Results

- **Enhanced working relationship between all levels of FAA and NWS operations**
- **Fewer negative comments in traffic management logs**
- **Work underway to quantify impact of focused support on air traffic decision making**

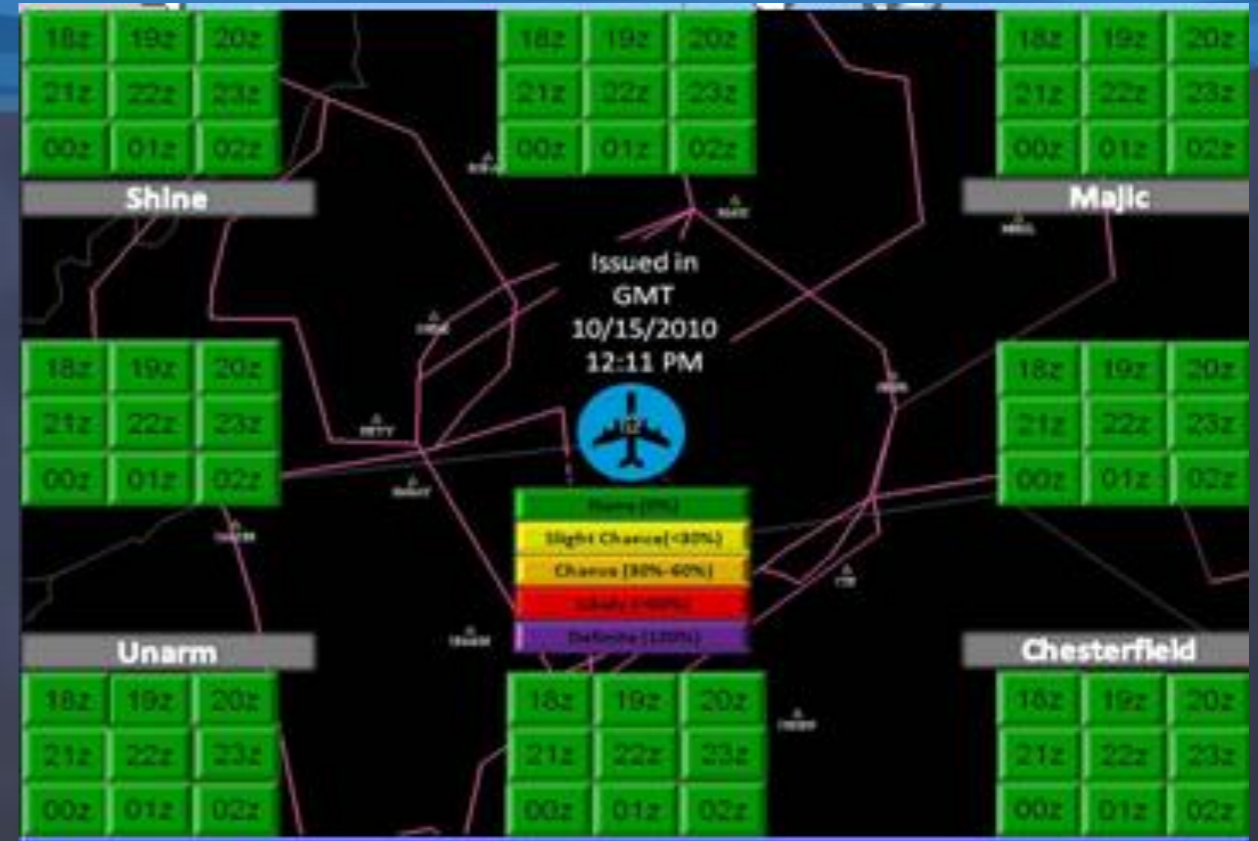
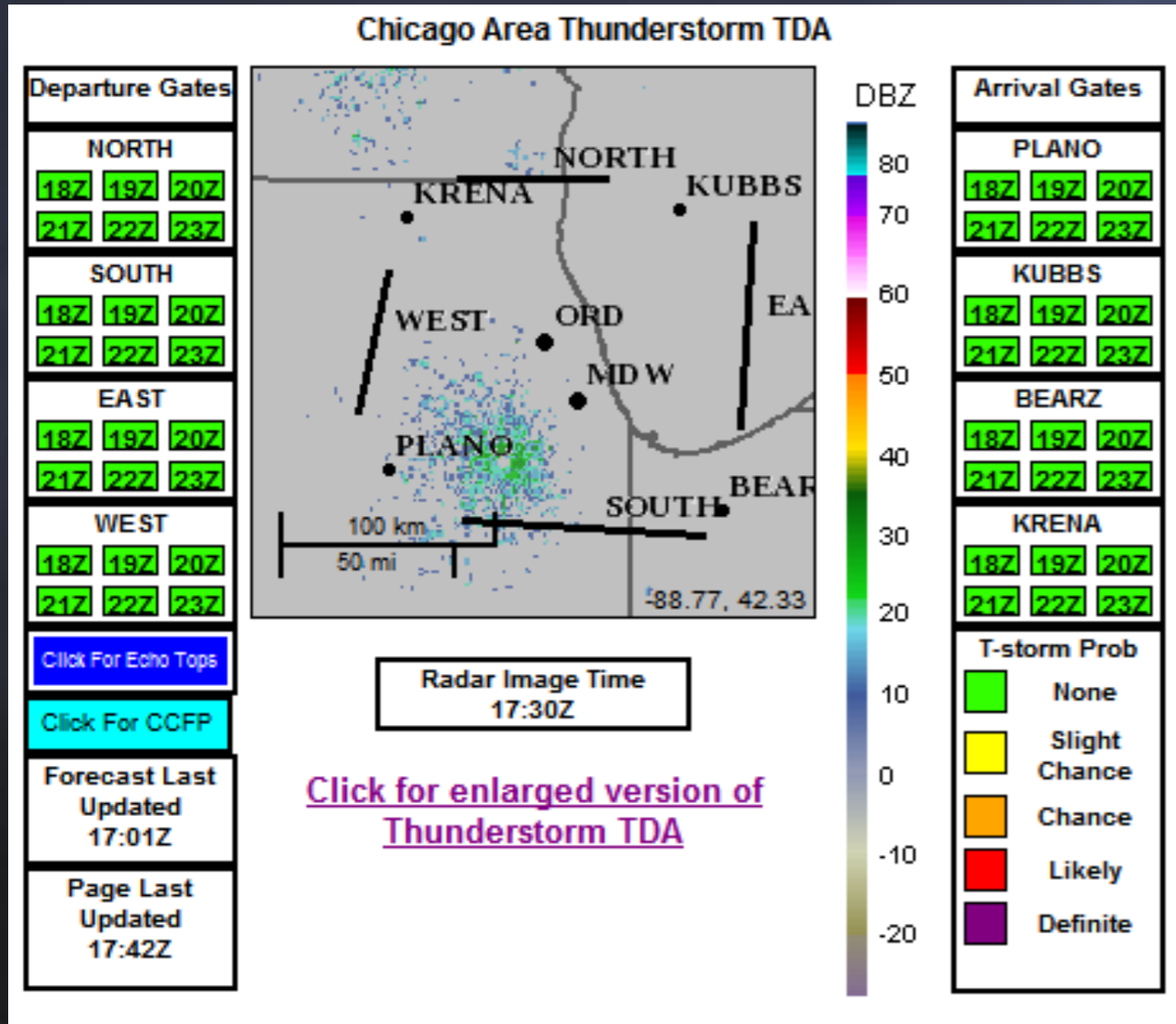


TRACON Gate Forecast

- **Forecast for arrival/departure gates identified as “best practice” in 2009 CWSU Site Reviews**
- **FAA asked NWS to provide a Convective TRACON Gate Forecast based on the one from CWSU Atlanta**
 - *Focus on the 8 major TRACONs*
- **Keep Chicago TRACON Forecast as a prototype**
 - *Generated by WFO convection grids*
 - *On the path to NextGen*



TRACON Gate Forecast



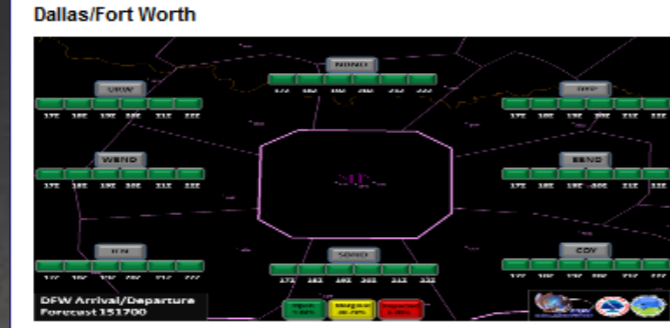
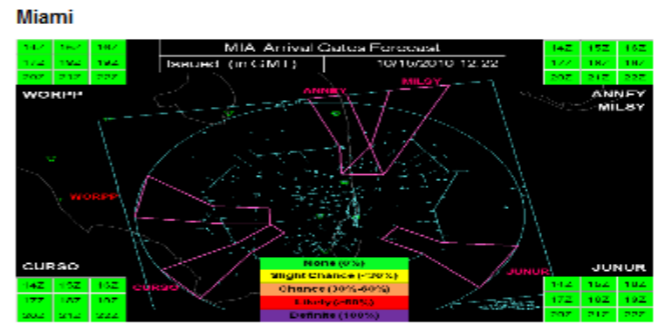
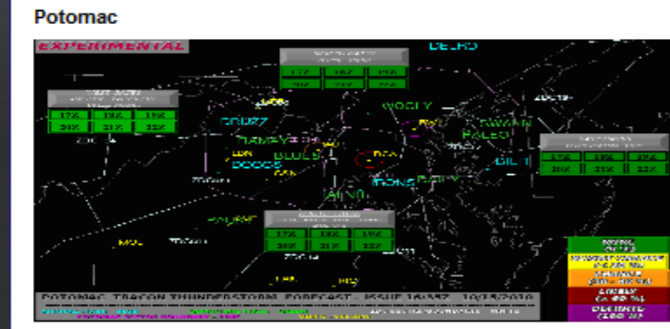
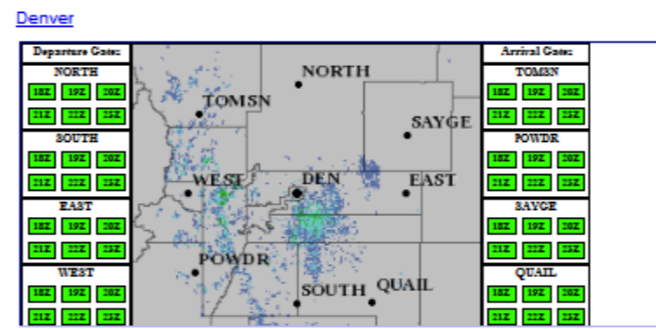
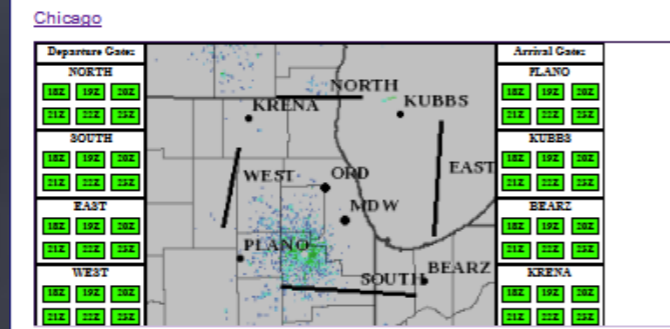
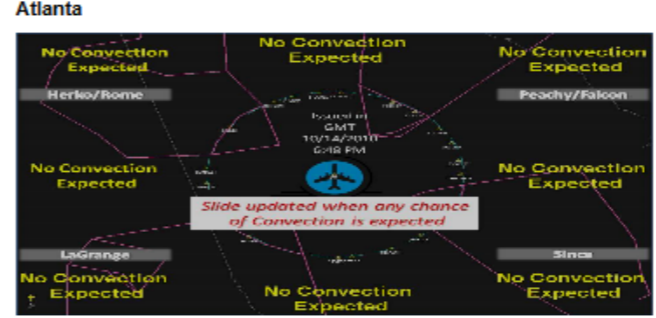
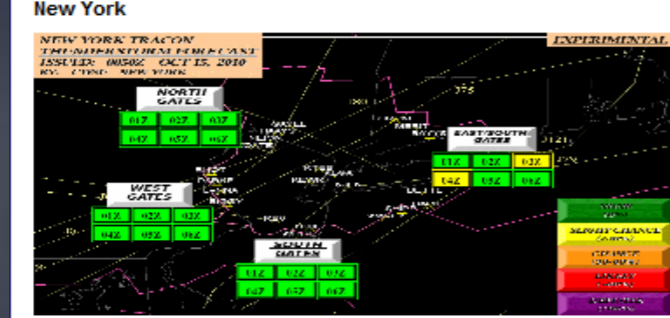


TRACON Gate Forecast

Experimental CWSU Forecast Products
Aviation Weather Center CAWS System

Home News Organization Search Go

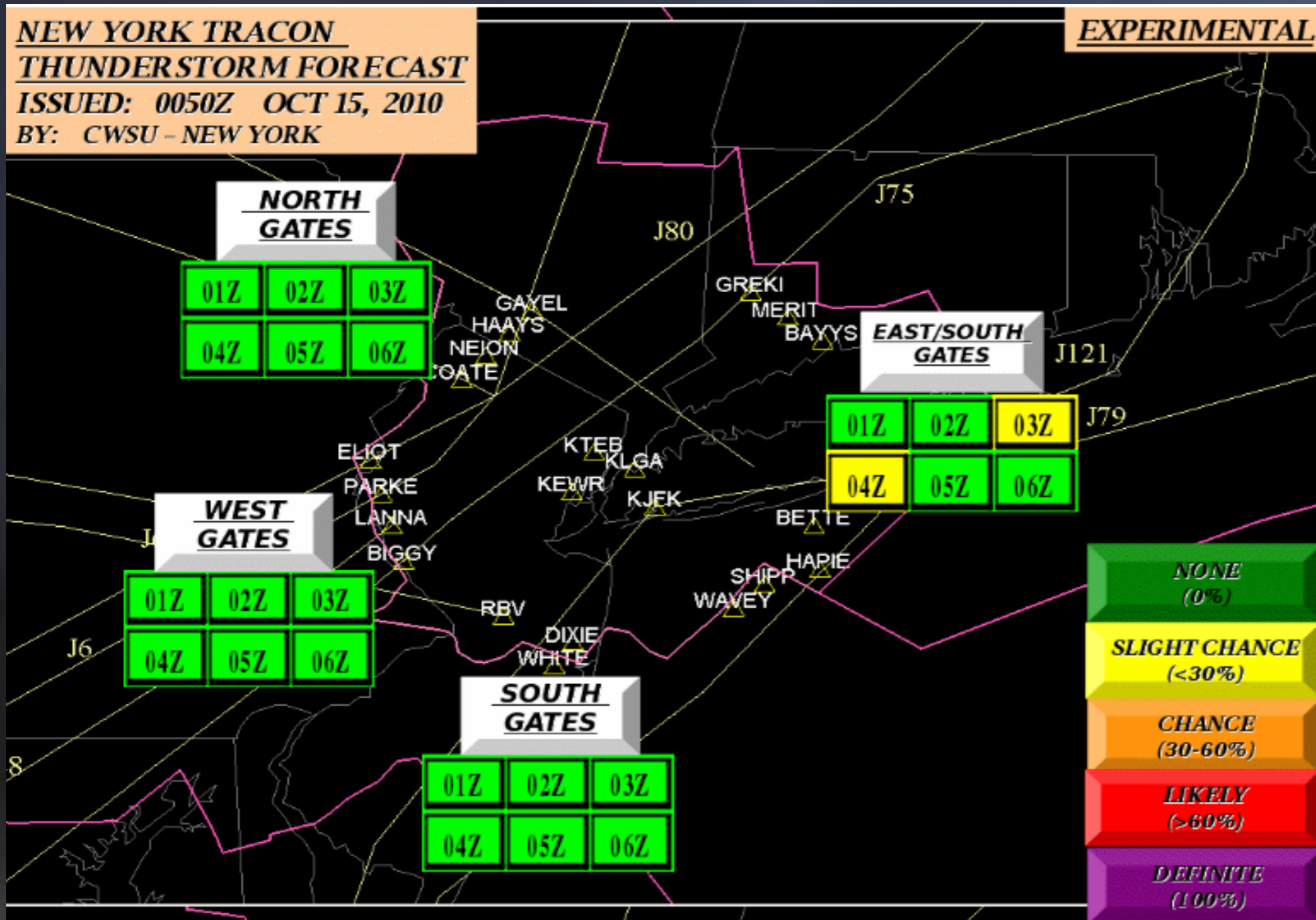
Experimental TRACON Forecasts





TRACON Gate Forecast

Prototype currently available for comment at <http://bcaws.aviationweather.gov/cwsu>



Click on image to view full size

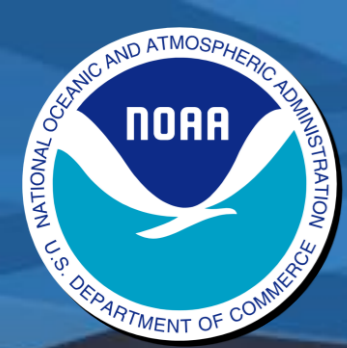
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Future...

- **Traffic Flow Management Weather Requirements Working Group**
 - ***Joint FAA/NWS Team***
 - Kevin Johnston, FAA Lead
 - Julie Adolphson, NWS Lead
 - ***Develop requirements for weather information in support of Traffic Flow Management***
 - From 2012 through 2015
 - Working toward NextGen MOC
 - ***Develop implementation plan for products and services through 2015***



Summary

- **NWS actively working to improve weather information for decision makers**
 - ▣ ***Greater time resolution for TAFs***
 - ▣ ***TRACON Gate forecasts for convection with icing to follow***
 - ▣ ***Improved communication with FAA partners***
 - ▣ ***Working together on near to mid-term requirements and implementation***