Impact-based Decision Support for Aviation

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Aviation Weather

Forecast issued by the NWS Aviation Weather Center – convective (thunderstorm) weather of importance for en-route air traffic

3-5 Nov 2015

WEATHER FORECAST

TRAFFIC FORECAST

Making forecasts better
TRAFFIC FORECAST

WEATHER FORECAST

AIR TRAFFIC FLOW CONSTRAINED BY WEATHER

Corridor

Hazard

Constraint Severity

Low Med High
TIME SERIES
OF WHICH
ROUTES
WILL BE
MOST
IMPACTED
BY
WEATHER

Constraint colors
Blue - None
Green - Light
Yellow - Low
Red - High
Purple - Severe

Impact-based Decision Support
Impact-based Decision Support

• Allow for better planning
  • Strategic, rather than tactical decisions
  • Fewer delays, diversions, and cancellations
  • Maintain safety, improve efficiency

• Operations
  • INSITE in transition to operations at the National Weather Service, expected in 2017
  • Transition via Integrated Dissemination Program (IDP)

• Future plans
  • Add in other weather (fog, snow, winds)

• Test INSITE
  • Incorporated into the electronic poster session