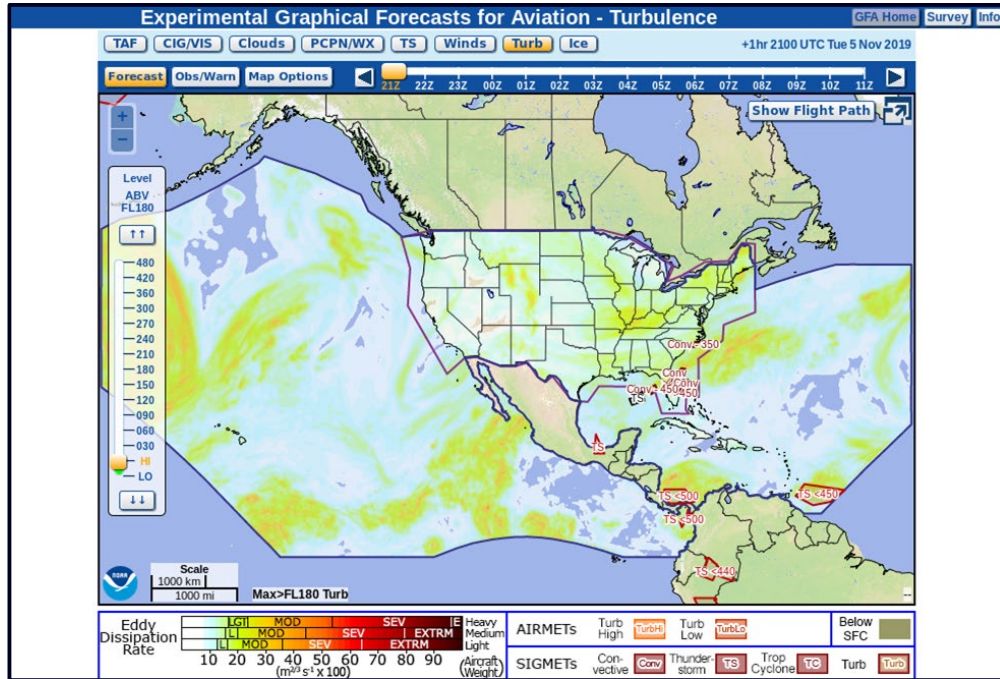




NCEP - Aviation Weather Center

Joshua Scheck

Operational Unified Post Processor



- **Current Efforts**

- In collaboration with EMC, Integration of aviation hazard algorithms onto UPP

- Full Global and Domestic GTG Production handled by UPP

- **Future Needs**

- Aviation algorithms need to be model/scale agnostic

- Must be efficient to not slow down post-processing

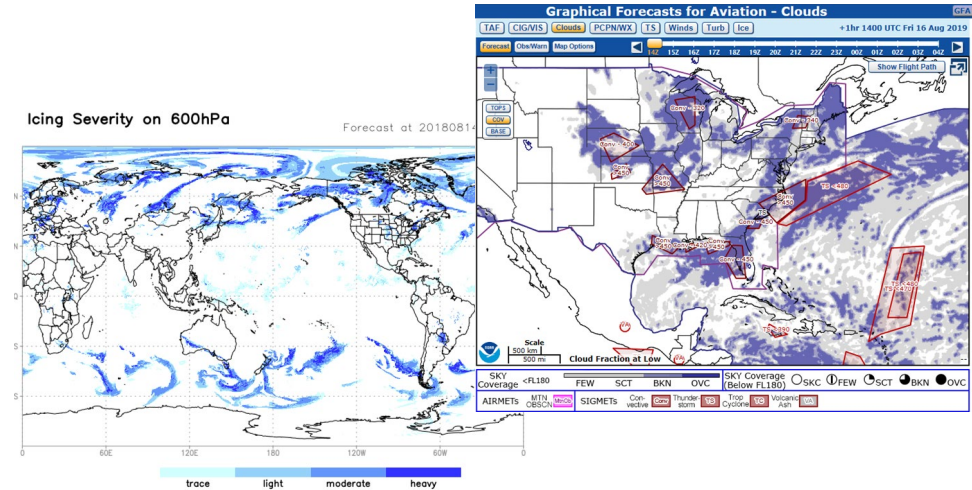
- Output needs to meet the needs of aviation partners

CAMS/High Res Ensembles



- **CAM Benefits**

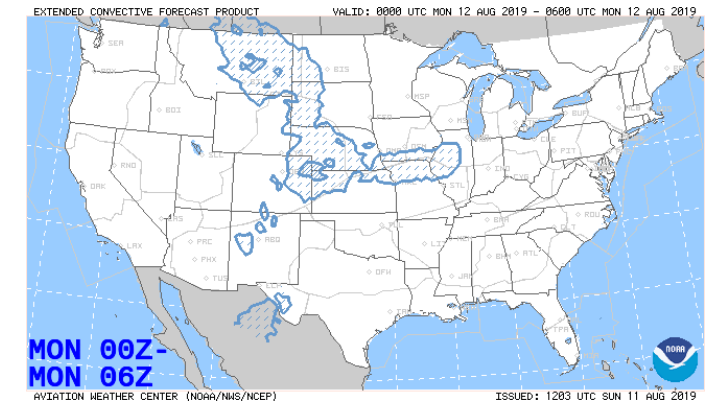
- Improved cloud forecasting (cloud fraction on native model layers)
- Improved icing forecasts
- Support Auto Traffic Flow Management Convective Forecast (TCF)



High Resolution Ensembles (F00-F96)

- **Support current and future decision support tools**

- Expand forecast valid time horizon for Graphical Forecasts for Aviation, and Digital Aviation Services, etc.
- Maintain and upgrade capability of operational Aviation Winter Weather Dashboard, Extended TCF and extended TCF products
 - Increasing emphasis on communication hazards at an extended range (48-96 hrs)



Global

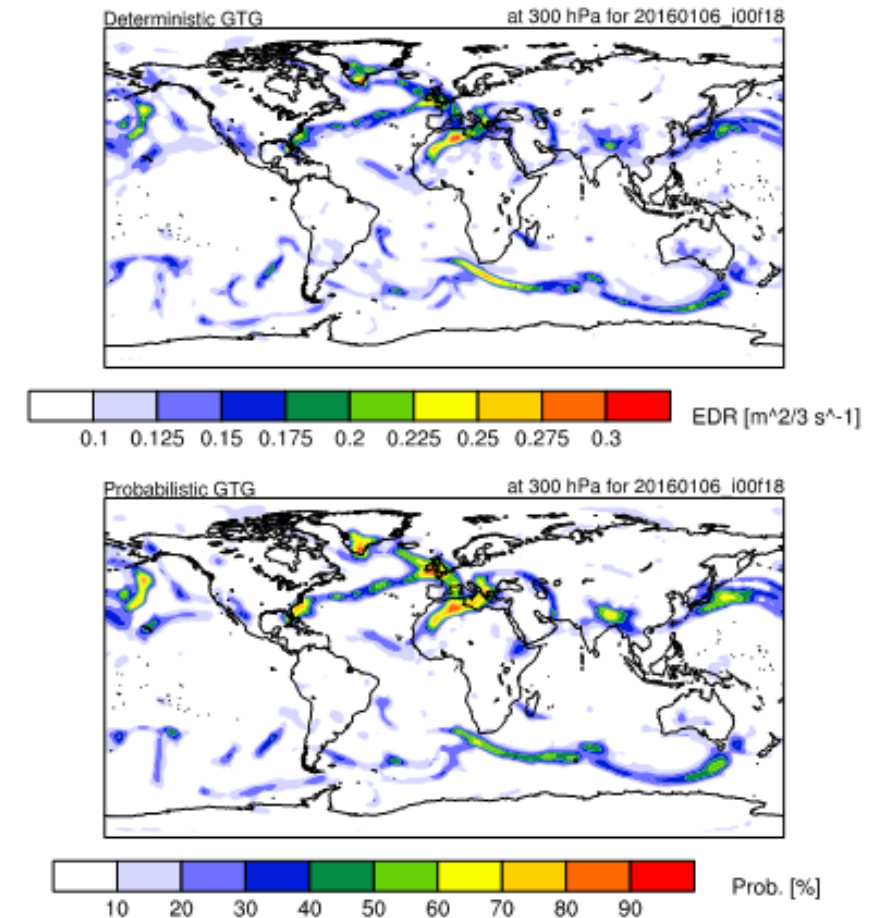


- **Global Resolution Ensembles (through day 12)**

- Probabilistic Turbulence, Icing, and Convection on global ensemble
- Explore assorted decision support tools to be evaluated in AWT in collaboration with FAA

- **WAFC**

- By 2024:
 - GEFS and MOGREPS blending of aviation en-route variables
- Limited spread in early forecast hours still a concern
- Potential for multi-ensemble





Questions

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