## **NWS Aviation Weather Center**

Jennifer Stroozas
Warning Coordination Meteorologist
Kansas City, MO

Informing flight with weather wisdom



#### **Aviation Weather Center**









One of the nine NWS national centers

Domestic and international aviation forecasts and warnings

AviationWeather.gov



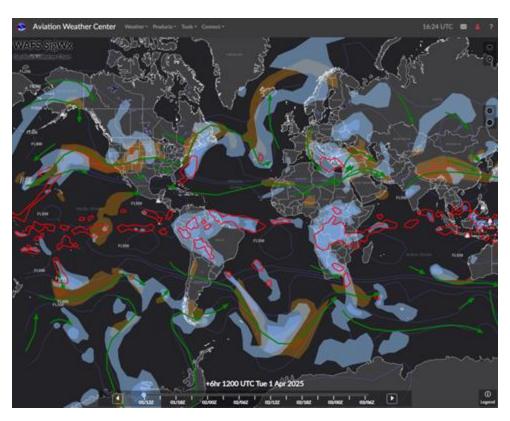
## **27 January 2025**







- TAC (text) AIRMET retirement
  - G AIRMETS only
  - o "Snaps" in time
  - Higher fidelity
- Tropical Area Forecast (FA) retirement
  - Areal text forecast
  - GFA available
- Auto SigWx in collaboration with UKMET



#### **New NAOC Desk**







- National Aviation Operations Center (NAOC)
  - Starts April 20
  - Focus on orchestrating operations
  - International SIGMETs
  - Spot forecasts
  - Messaging / expanding decision support services
- Desks by hazard remain
  - G AIRMETs and SIGMETs per hazard (cig&vis, icing, turb)
  - Convective SIGMET
  - Traffic Flow Management Convective Forecast (TCF) March-October
- Lots of training ongoing!

## **Aviation Weather Testbed**









## **Research to Operations**



**Vision:** "A destination facility as the enterprise leader in realizing the best science, technology, and training for operational aviation meteorology."

A continuous collaborative effort to develop, maintain, and integrate new products into operations.

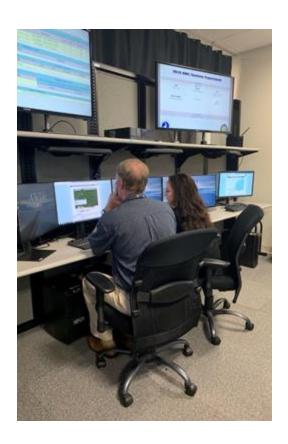


Operational Implementation





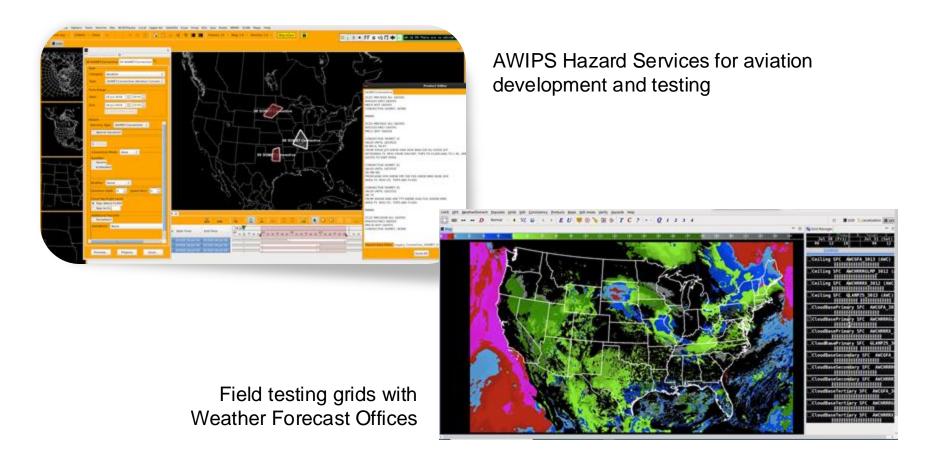
# FAA Aviation Weather Demonstration and Evaluation Group (AWDE)



- Lab at the FAA William J. Hughes Technical Center in New Jersey that specializes in Human Factors
- Social science partners in workflow and enduser experience evaluations



#### **Forecast Workflow Evaluation**



#### **User Evaluation**



#### **Example: User evaluation of web upgrades**

- Working with FAA's AWDE Services
  - Neutral human factors experts
- Participants:
  - Pilots
  - Dispatchers
  - NWS meteorologists

Risk reduction: human factors assessment of what works, what doesn't, and how decisions are made.

## **Annual Summer Experiment**

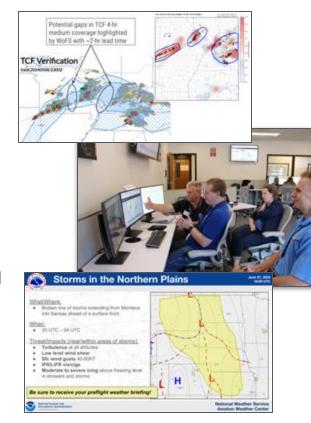
**Goal:** To evaluate experimental and prototype products and services to support aviation planning in the National Airspace System (NAS).



- Integral part of our Researchto-Operations (R2O) process
- Stakeholder engagement and collaboration
- Build relationships between multiple entities in the aviation weather enterprise

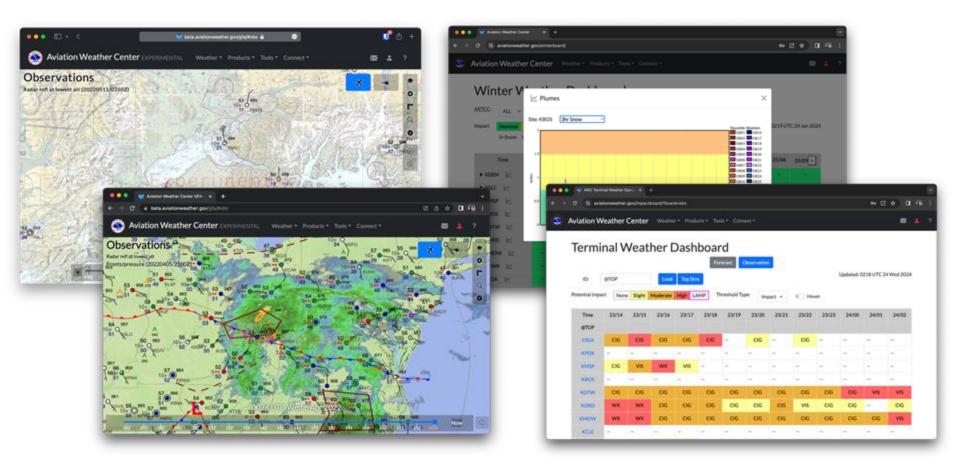
#### **Recent Projects**

- AviationWeather.gov continuous improvement
- Weather model evaluations
- Aviation Weather Research Program (AWRP) development with FAA
- Explore new products for GA pilots



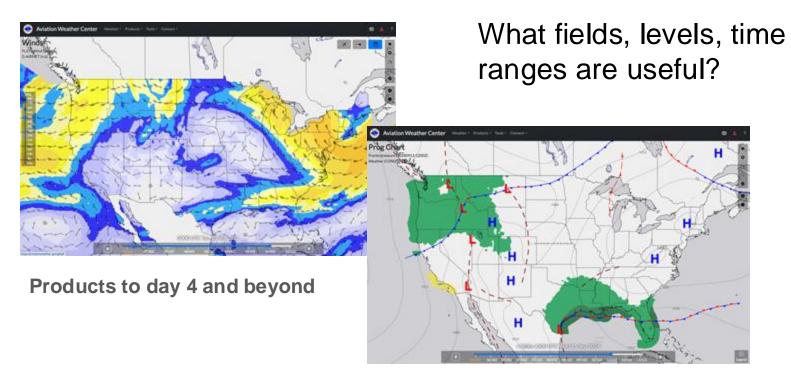
## 2014-2023 RIP 16 Oct 2023



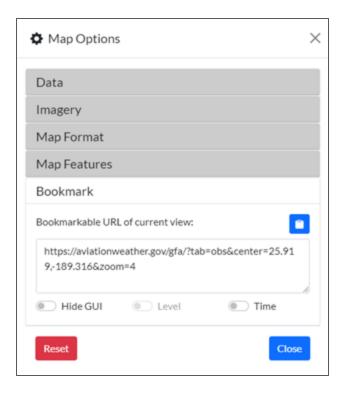


#### **Extended Range**





#### **Bookmark**





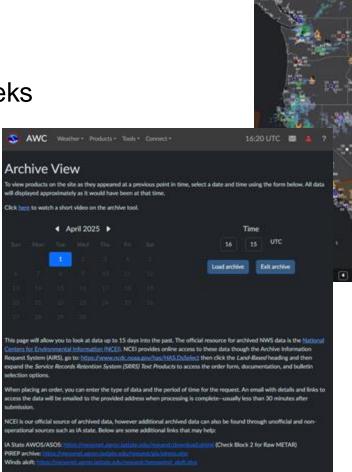


Save URL to re-open the page exactly as it appears on your screen

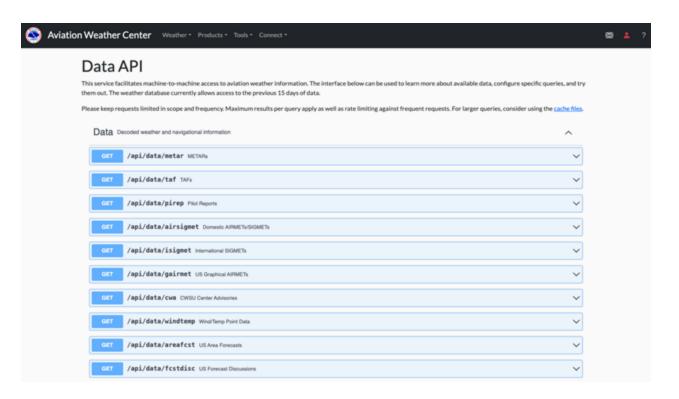
#### **Archive Mode**

Data back to 2 weeks

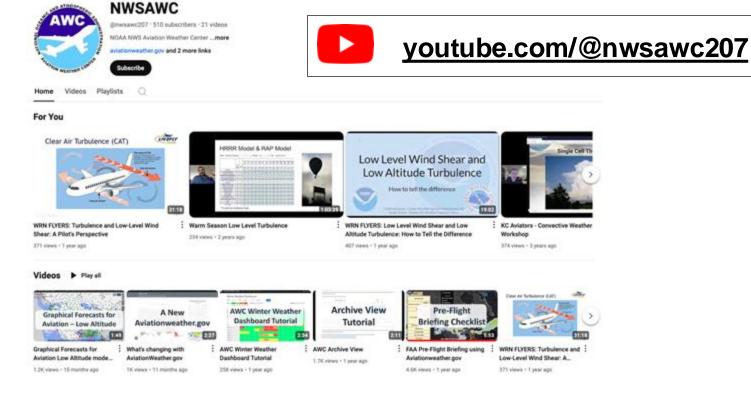
Easy to navigate



#### **Data Access**

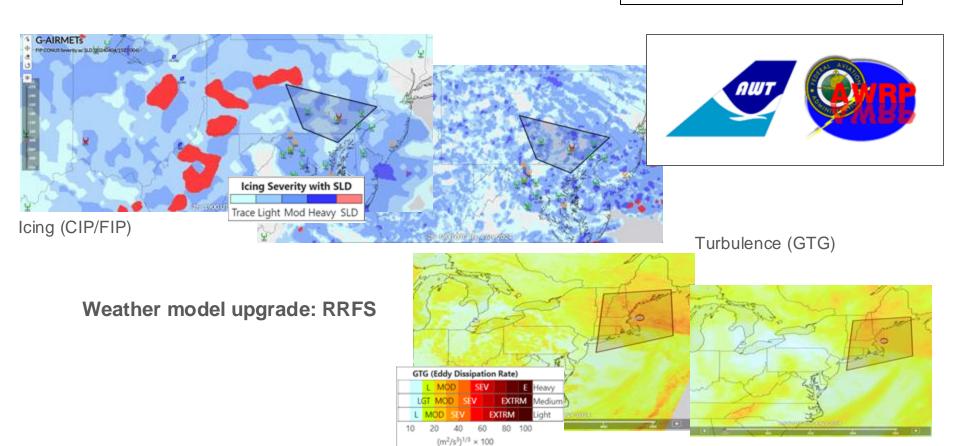


#### **Tutorials and Other Videos Available**



#### **Model Evolution**

Currently being evaluated



## **Key Aviation Messages**

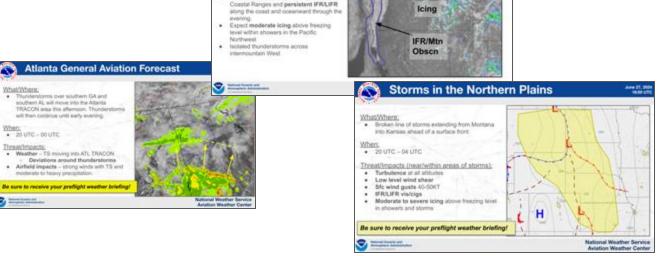
Currently being evaluated

Highlights an area with expected significant impacts to

general aviation

Easy to interpret

Calls to action

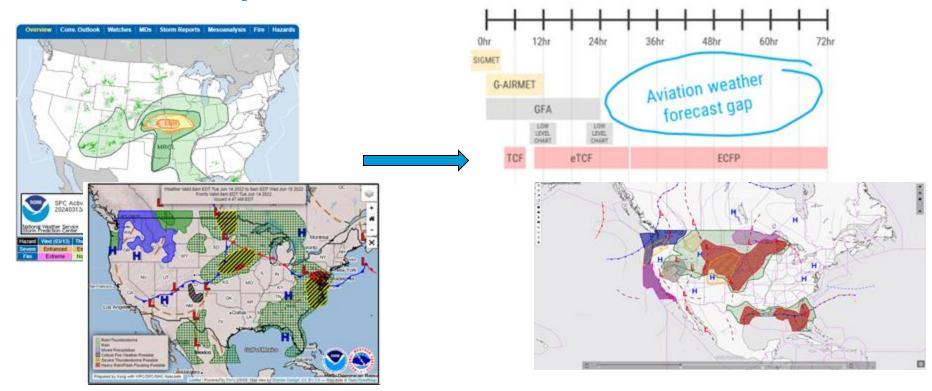


**Multiple West Coast Hazards** 

 Widespread showers and isolated thunderstorms, IFRUFR, Mountain obscuration and loing

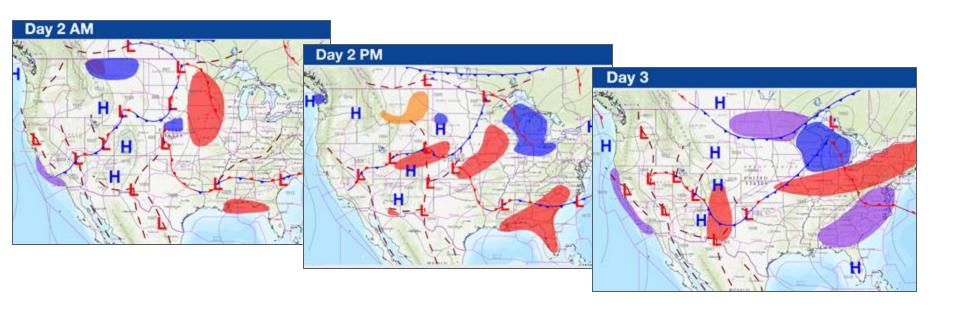
Mountain obscuration from Cascades to

## **Outlook Graphics**



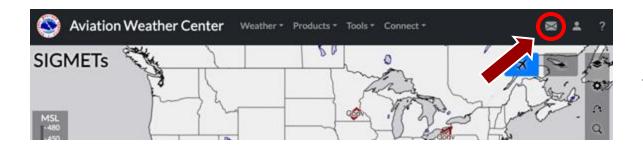
## **Outlook Graphics**

Currently being evaluated



## https://AviationWeather.gov/





Reach out through the web site!



# Questions?

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