

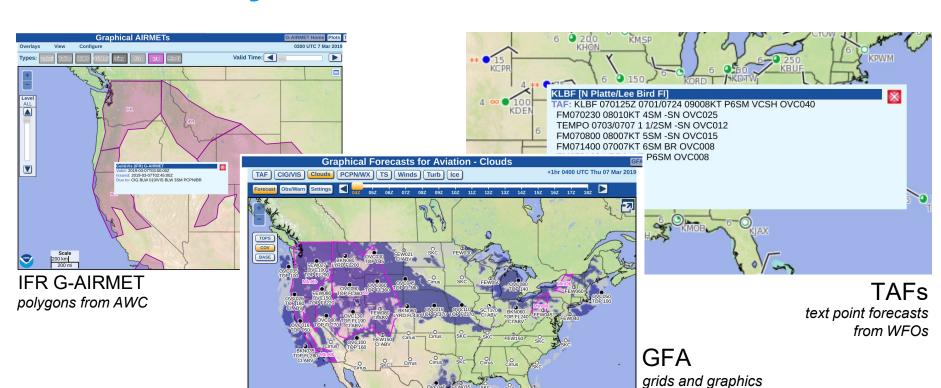
NATIONAL WEATHER SERVICE

Aviation Weather Center

Cloud Layers and the Presentation of C&V Information to Users

Austin Cross & Rob Hepper

Primary NWS Cloud & Vis Products



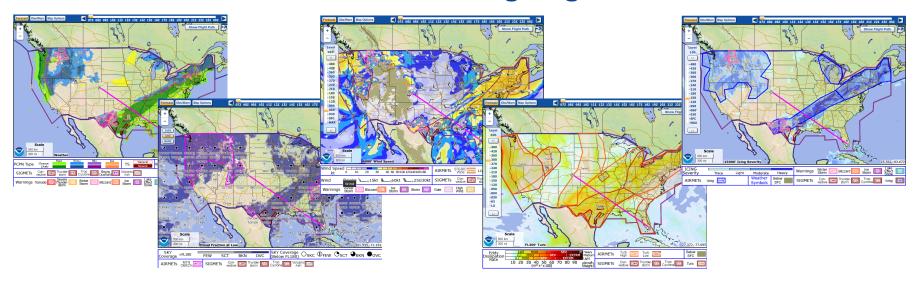
from AWC

Off-airport Operations



Graphical Forecasts for Aviation (GFA)

AviationWeather.gov/gfa



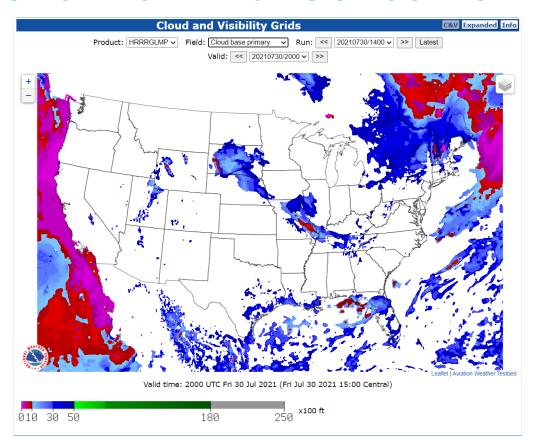
Web capability & graphical forecasts primarily for en-route

Low Cloud Bases for Terminal Concerns

Focus on greatest impacts to terminals

Most airport area concerns below ~5,000 ft

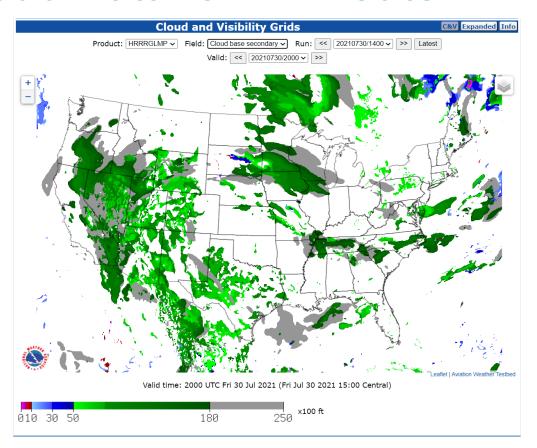
Synthesize gridded LAMP statistical guidance with RAP cloud layer information



Additional Cloud Data for En-Route

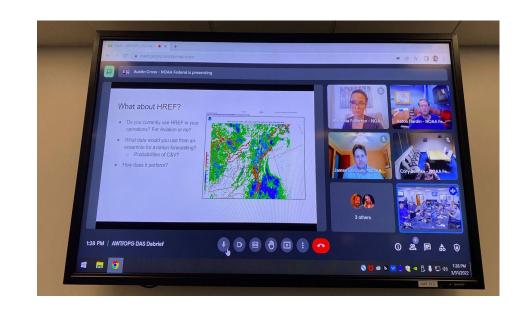
Additional cloud grids to support a full GFA with more layers, tops, cirrus

Available for editing if needed



Virtual Experiment

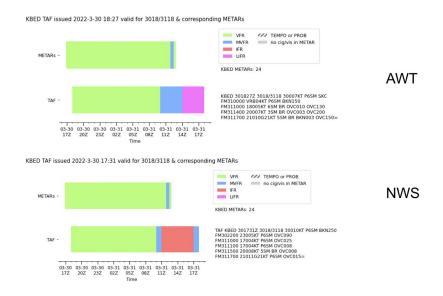
- 4 remote participants, several regions
- Open video call with participants



CWA Clusters



Reviewed resultant TAFs during and after experiment, including comparing against forecasts created through current methods



Conclusions

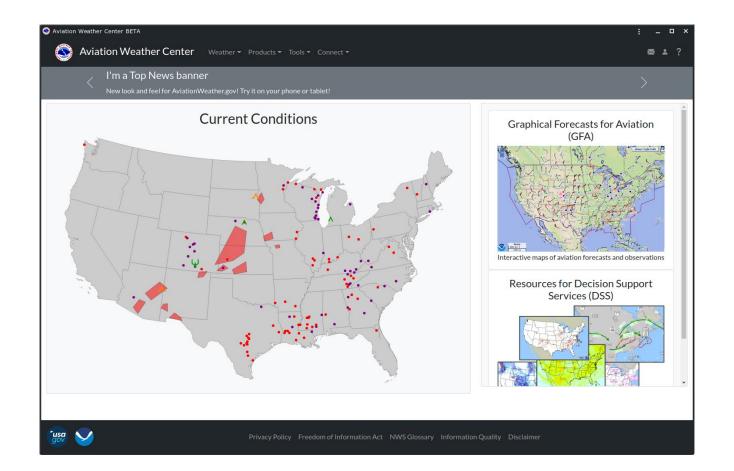
- Guidance generally well received
 - Big improvement over a few years ago
 - Changing methodology takes adjustment
- Maintaining consistency a challenge
- TAF production code improvements needed
 - Decreases amount of time post-editing text
- Need to coordinate different workflows and expectations across local forecast offices



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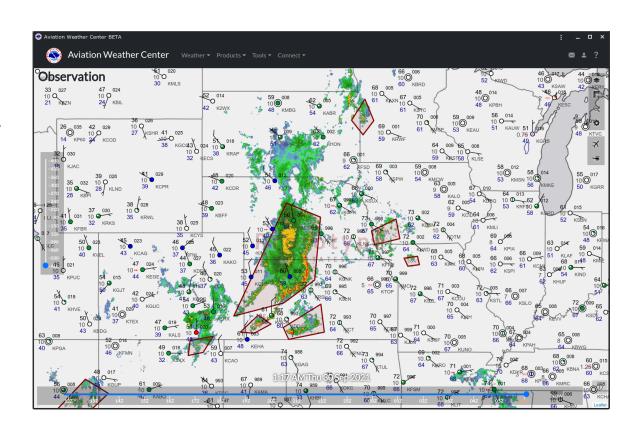
Aviation Weather Center

AviationWeather.gov Update



GFA Low Altitude (GFA-LA)

- All the best features of GFA and HEMS
- New, updated design
- Large, full window maps

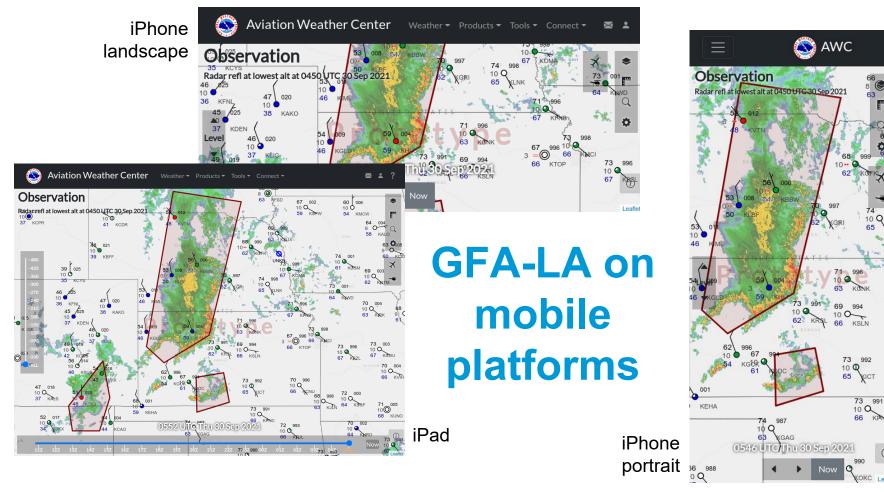


Mobile Design

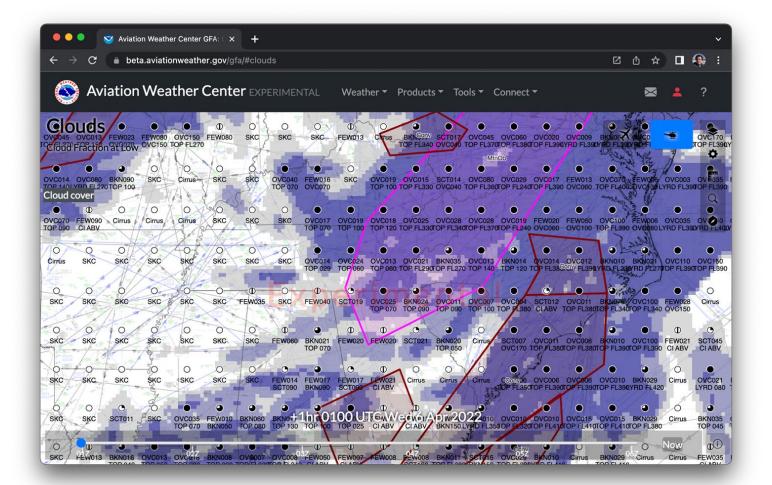


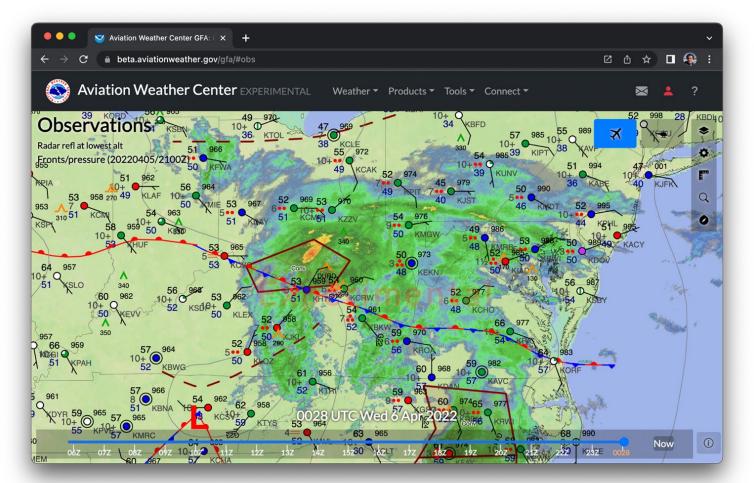
iPad Mini in the cockpit at Apple Sept. 2021 event

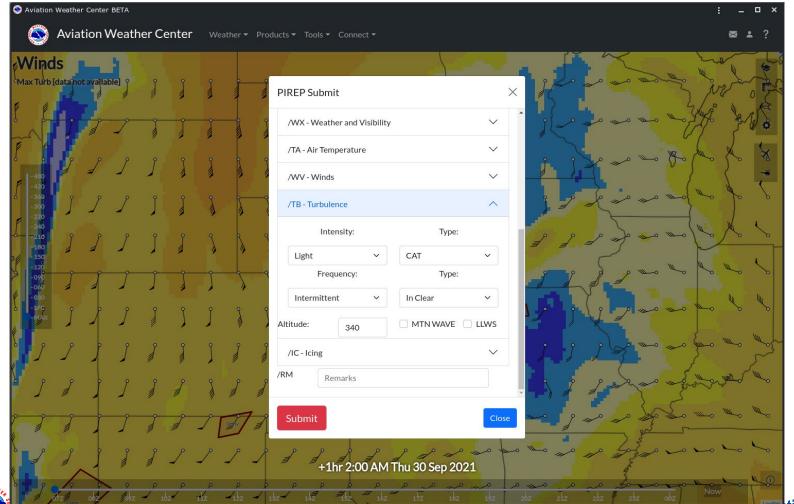
- Need to support evolving Internet usage
- Mobile accounts for ~50% of all web traffic
- Site used on-the-go: on the tarmac, in the cockpit, in remote locations



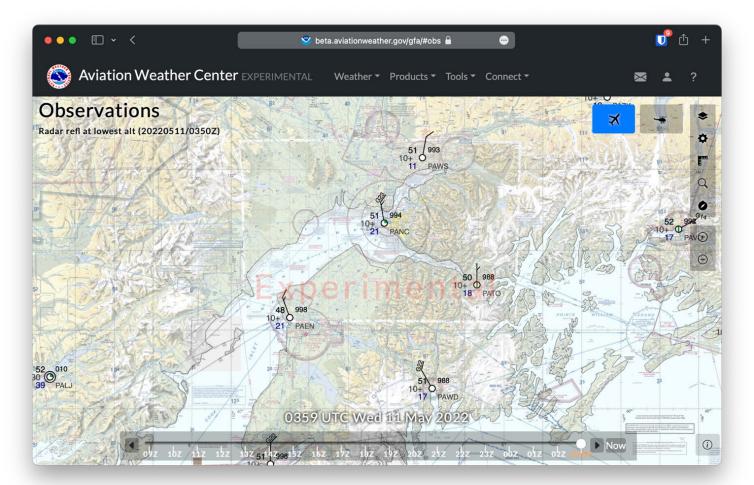












Site Evaluation and FAA AWDE

FAA AWDE at the FAA William J. Hughes Technical Center in New Jersey that specializes in Human Factors

Pilots, dispatchers, univ. professors



