Graphical Forecast for Aviation (GFA)

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October 21, 2010
G-AIRMET Status

- **October 1, 2008**
  - AWC began making the G-AIRMET available *Experimentally*
  - G-AIRMET/text AIRMET production combined
  - Text AIRMET still the only primary product

- **December 08, 2009**
  - SRMD Signed

- **March 16, 2010**
  - AWC Operationally producing G-AIRMETs as Primary Product
  - G-AIRMET & Text AIRMET production Synchronized
The text AIRMET is a bi-product of the G-AIRMET production process.

- AIRMET and G-AIRMET fully consistent
- The G-AIRMET contains more time and space precision

- G-AIRMET valid 3 hour snapshots out to 12 hours
- Text AIRMET valid for a period of up to 6 hours
  - 6h time “smear”
- G-AIRMET integrates into user systems
- Text AIRMET limited by number of characters and uses VORs to describe extent of hazard over a period of time.
G-AIRMET

G-AIRMET implementation has led to significant reliability improvements

Decreased delayed transmissions

G-AIRMET production process implemented

G-AIRMET fully operational and Primary

* Data missing 11/6-12/18
G-AIRMET

G-AIRMET implementation has led to significant reliability improvements

Increased On Time Percentage
Summary

✈ G-AIRMET Operationally Produced As A Primary Weather Product
✈ Fully Consistent With Text AIRMET
Qualified Internet Communications Provider

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CAWS TAKES OFF

QICP Certification
February 2010

Applies to AviationWeather.gov and Aviation Digital Data Service (adds)
Approximately registered 1000 users since February 2010

All new applications have a login and are QICP certified as they come on line

- WAFS Internet File System
- Space Weather Prediction Center
- WebIFFDP
- CWSU/AAWU

Currently AWC maintains all access
QICP Certification → Better for Aviation

No single outage longer than 10 minutes
Three month cumulative outages not to exceed 30 minutes
Security - SSL maintains data integrity
2-minute transaction time accessibility
→ Provide proof (via log file) QICP user had access
How Is QICP Achieved?

Consolidated Aviation Web Services (CAWS)

- AviationWeather.gov
- Aviation Digital Data Services (ADDS)
- International Flight Folder Document Program (IFFDP)
- WAFS Internet File Service (WIFS)

NWS Consolidated Internet Farms (NWS CIF)

Integration to achieve QICP reliability standards
Three Locations
Globally Load Balanced

CRH
HQ
SRH

Kansas City, DC, Fort Worth
Installing CAWS at 3 locations

- Improves redundancy
- Uses less equipment (than duplicating current configuration)
- Lowers operating costs by sharing facilities
- Leverages IT functions
Aviation Weather Center Web Services Earned “Qualified Internet Communications Provider” status February 2010.

Mainly supports part 121 and 135 operators

Through CAWS Other NWS Aviation Services Can Be Provided