



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**

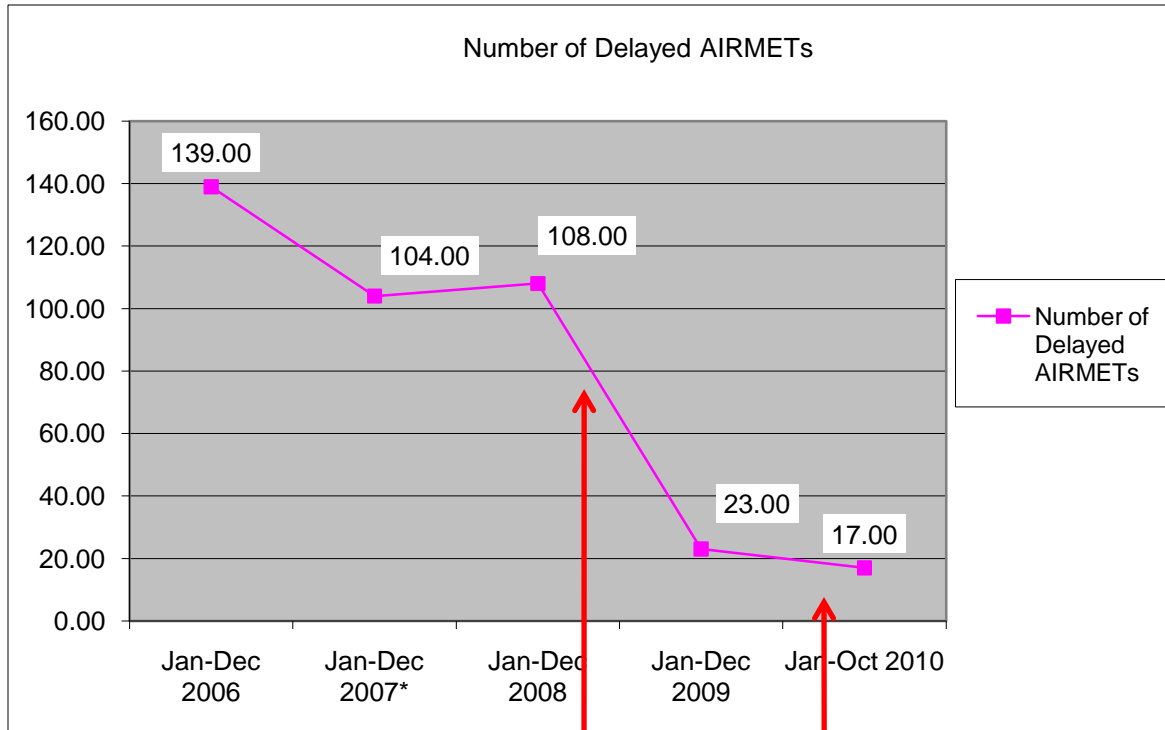
→ March 16, 2010

- AWC Operationally producing G-AIRMETs as Primary Product**
- G-AIRMET & Text AIRMET production Synchronized**

G-AIRMET

- **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



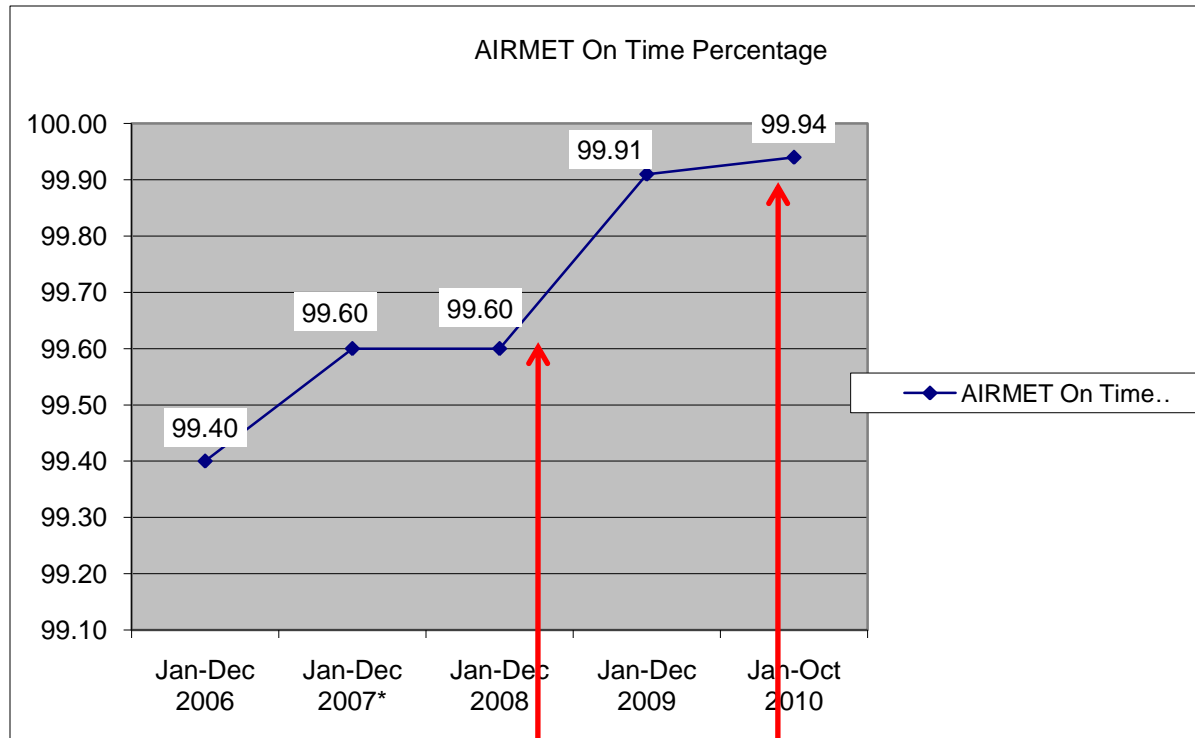
* Data missing 11/6-12/18

G-AIRMET production process implemented

G-AIRMET fully operational and Primary

- ➔ **G-AIRMET implementation has led to significant reliability improvements**
- ➔ **Decreased delayed transmissions**

G-AIRMET



G-AIRMET production process implemented

G-AIRMET fully operational and Primary

- ➔ **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 (@dds)

QICP Users

- **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 Summary

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?

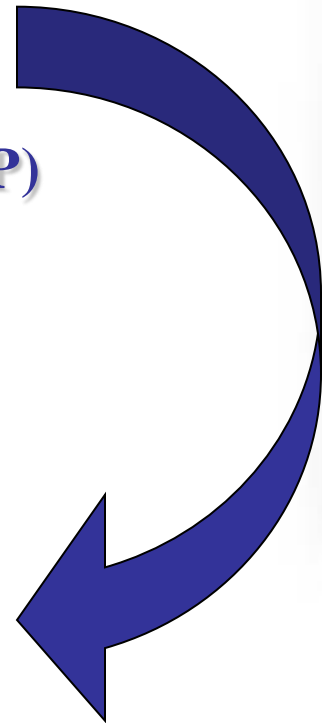
Consolidated Aviation Web Services (CAWS)

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



NWS Consolidated Internet Farms (NWS CIF)

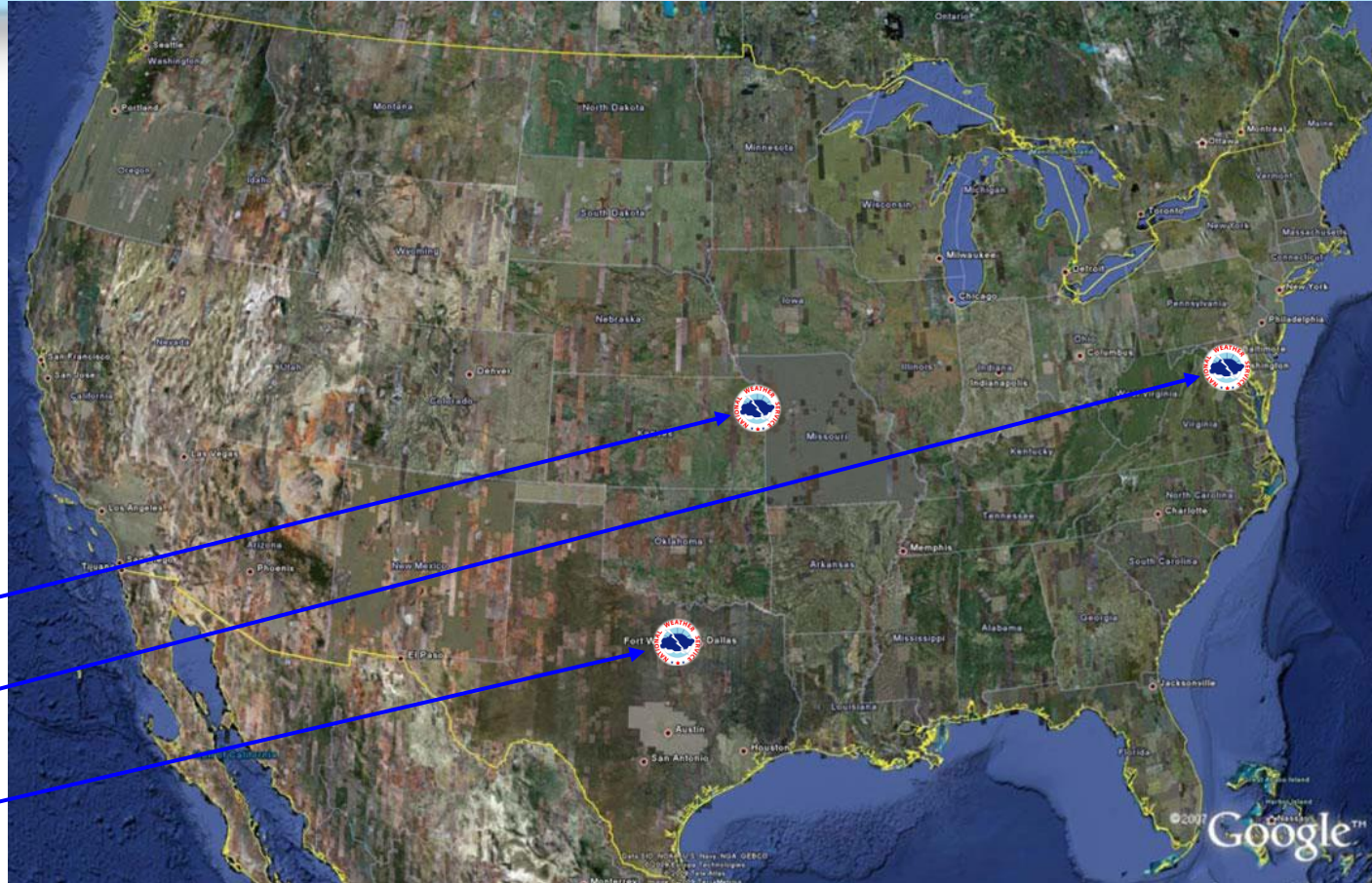
Integration to achieve QICP reliability standards



NWS CIF

→ Three Locations
→ Globally Load Balanced

→ CRH
→ HQ
→ SRH



Kansas City, DC, Fort Worth

Three Locations CAWS

- **Installing CAWS at 3 locations**
 - Improves redundancy
 - Uses less equipment (than duplicating current configuration)
 - Lowers operating costs by sharing facilities
 - Leverages IT functions

QICP Summary

- ➔ **Aviation Weather Center Web Services Earned “Qualified Internet Communications Provider” status February 2010.**
 - ➔ **AviationWeather.gov & @dds**
 - ➔ **Mainly supports part 121 and 135 operators**
- ➔ **Through CAWS Other NWS Aviation Services Can Be Provided**