

National Business Aviation Association Meeting



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Supporting the Nation's Commerce with Information for Safe, Efficient, and Environmentally Sound Transportation



Status on the Graphical Turbulence Guidance – 2 Implementation

- Aviation Weather Center task is to support AWRP products running at AWC in pre-D4 status and after D4 status.
- **GTG-2 / InSitu Turbulence Implementation**
 - Product 'technically' ready for D4 operational implementation
 - Planned operational implementation: Winter 2008
- **Important remaining tasks include:**
 - Completion of FAA Operational Suitability Evaluation (OSE)
 - 'D4' transition approval
 - Final NWSHQ approval
 - Final operational stability testing

Status on the Graphical Turbulence Guidance – 2 Implementation (cont'd)

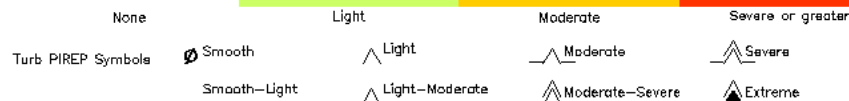
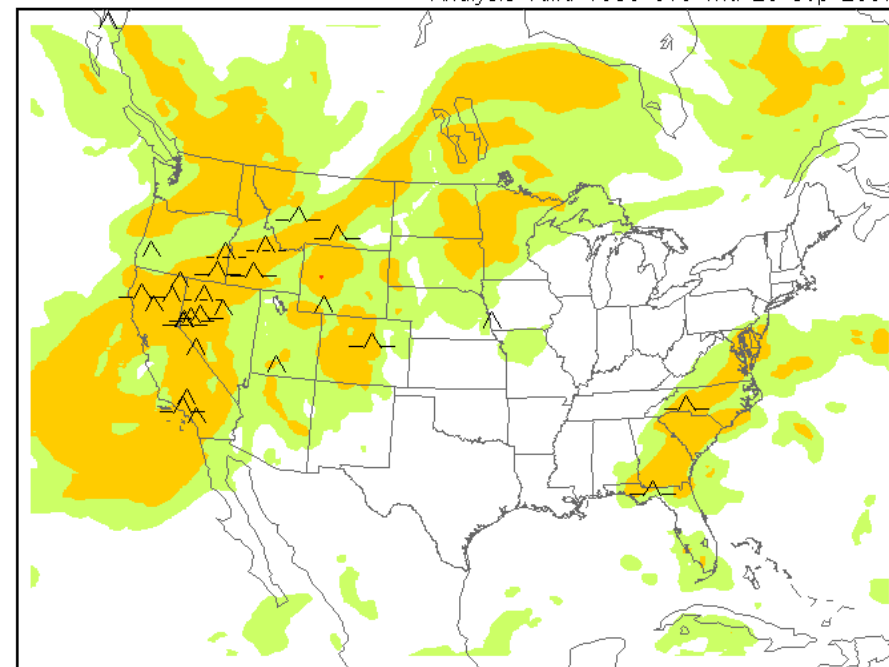



- Data currently available on Experimental ADDS
- Includes data from FL100-FL200 (FL200-FL450 already available)
- Utilizes real-time In-Situ turbulence data
- Better quality to control to prevent over forecasting of moderate to severe turbulence

The GTG is an automatically-generated turbulence forecast product that supplements AIRMETs and SIGMETs by identifying areas of turbulence. The GTG is not a substitute for turbulence information contained in AIRMETs and SIGMETs. It is authorized for operational use by meteorologists and dispatchers.

Maximum turbulence intensity (10000 ft. MSL to FL450)

Analysis valid 1500 UTC Thu 20 Sep 2007





Status on the Graphical Turbulence Guidance – 2 Implementation (cont'd)

- Will be available to end users in GRIB format via:
 - NOAAPort (WMO header list available from AWC)
 - FTP from the NWS Telecommunications Gateway
- Will be available in graphical form on Operational ADDS:
 - Operational ADDS (<http://adds.aviationweather.gov/turbulence>)
- GRIB format allows end users to integrate GTG-2 into a multitude of systems
- Future products will be output in GRIB-2 format



AWC Web PIREP Interface

- Password protected and secure web interface allowing airline dispatchers to share PIREPs with the entire aviation community (since April 2003)
- Account for nearly 10% of all PIREPs
- Majority of the reports we receive include turbulence information
- Contact the AWC if you are interested in acquiring account access

The screenshot shows the AWC Web PIREP Interface. On the left, a map of the United States displays several PIREP reports with their corresponding flight paths and altitudes. The reports are:

- PIREP 15:29Z 05/18/05
TUL UA /OV TUL/TM 1529/FL340/TP B738/SK CLEAR/TA M50/MW 262024KT/
TB LT CHOP/IC NONE/RM AWC-WEBDAL
- PIREP 15:36Z 05/18/05
TUL UA /OV TUL/TM 1536/FL340/TP B752/SK CLEAR/TA M50/MW 275032KT/
TB SMOOTH/IC NONE/RM AWC-WEBDAL

On the right, the 'PIREP Entry Form' is visible, featuring a 'Location Lookup' section with fields for ICAO, IATA, and ICAO三字代码, and a 'Submit' button. The form also includes fields for 'Identifier', 'Time', 'Altitude', and 'Report Type'.

Top Participants:

- (1) Alaska Airlines
- (2) Southwest Airlines
- (3) Delta Airlines
- (4) Continental Airlines
- (5) CWSUs