

Graphical Turbulence Guidance (GTG)

PROGRAM/PROJECT: Aviation Weather Research Program/Turbulence Product Development Team
[<http://www.faa.gov/aua/awr/>]

LEAD AGENCY/COLLABORATING AGENCIES: Federal Aviation Administration (FAA)/National Center for Atmospheric Research (NCAR) and National Oceanic and Atmospheric Administration (NOAA) Forecast Systems Laboratory (FSL)

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SERVICE AREA(S)/INITIATIVE(S)

- *National Aviation Weather Initiatives:*
7: 10

FUNDING

- *Programmed/Planned (\$'s/FY):* \$1.1M/FY03 /FY04

TYPE OF PROGRAM/APPLICATION

R&D/Product Development

SCOPE OF PROGRAM/PROJECT

- *What's being developed, procured, etc.:* a capability to combine model output, turbulence in-situ measurements and pilot reports, to produce a 0-12 hour turbulence forecast product.
- *How operations will be changed/improved:* allow aircraft to avoid areas of turbulence and therefore reduce injuries caused by unexpected encounters with turbulence.

PROGRAM/PROJECT MANAGEMENT

- *Basic guidance document for this program:* FAA Turbulence Product Development Team Technical Direction.
- *Program/Project verification process:* Monthly and quarterly reporting, semi-annual program reviews, science panel reviews, RE&D advisory committee project assessments.
- *Method used for end product validation:* Verification of product improvements via the real-time verification system.
- *Operational training for the user:* Hands-on training is provided to Aviation Weather Center Forecasters.

SCHEDULE/IMPLEMENTATION

- *Next major program milestone:* FY06: GTG FL100+ operational
- *Program becomes operational:* GTG FL200+ became operational 2Q FY03.
- *Plans for further improvements:* inclusion of FL surface and above.