

Aviation Weather Information (AWIN)

PROGRAM/PROJECT NAME: Aviation Safety Program/Weather Accident Prevention Project
[<http://wxap.grc.nasa.gov/awin>]

LEAD AGENCY/COLLABORATING AGENCIES: National Aeronautics and Space Administration (NASA), Federal Aviation Administration (FAA), National Oceanic and Atmospheric Administration (NOAA)

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SERVICE AREA/INITIATIVE

- *National Aviation Weather Initiatives:*
1: 6 2: 3 3: 1, 4 5: 1, 3 6: 3 7: 2, 4 8: 1, 4

FUNDING

- *Programmed/Planned (Net \$'s/FY):* \$2.9M/FY03 \$1.8M/FY04

TYPE OF PROGRAM/APPLICATION

R&D/Product Development

SCOPE OF PROGRAM/PROJECT

- *What's being developed, procured, etc.:* Guidelines for the display of weather information in the cockpit; enhanced cockpit display products incorporating in-situ and remotely sensed data, enhanced presentations, and decision aids. Research is addressing both transport and GA operations.
- *How will operations be changed/Improved:* Improves weather situation awareness of pilots in flight, aids decision making related to weather, and assists in the reduction of aircraft accidents attributable to weather.

PROGRAM/PROJECT MANAGEMENT

- *Basic guidance document for this Program/Project:* AvSP/WxAP/AWIN Level III Plan.
- *Program/project verification process:* Weather Accident Prevention Project Reviews, NRC Review, Industry Review.
- *Method used for end product validation:* Evaluate technologies through system or subsystem models or prototypes in a relevant environment.
- *Operational training for the user:* AWIN will identify training needs and guidelines to support use of weather information technologies.

SCHEDULE/IMPLEMENTATION

- *Next major program milestone:* Integration of AWIN and turbulence prediction and warning technologies with final evaluation in FY 2005.
- *Program becomes operational:* AWIN develops enabling technologies that need to be implemented by industry or other government agencies. Commercial AWIN systems became available during 2002 and 2003.
- *Plans for further improvement:* With the fielding of first-generation AWIN systems, NASA is focusing on development of next-generation technologies to improve use of data-link weather information with other more conventional cockpit weather information sources, to develop means for trending of data, and to aid weather-related decision-making by flight crews.