# Weather Hazard Information for General Aviation
# ARNAV-NASA Cooperative Research Agreement (CRA)

**PROGRAM/PROJECT:** Weather Accident Prevention Project/Weather Information Communications
**LEAD AGENCY/COLLABORATING AGENCIES:** National Aeronautics and Space Administration (NASA), Federal Aviation Administration (FAA),
**LEAD AGENCY POINT OF CONTACT:** Gus Martzaklis, GRC, 216-433-8966, Konstantinos.S.Martzaklis@nasa.gov
**PROGRAM POINT OF CONTACT:** Michael Jarrell, GRC, 216-433-8102, michael.a.jarrell@nasa.gov

**SERVICE AREA (S)/INITIATIVE (S)**

- ***National Aviation Weather Initiatives***:
  N/A

**FUNDING**

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

**TYPE OF PROGRAM/APPLICATION**

R&D

**SCOPE OF PROGRAM/PROJECT**

- ***What's being developed, procured, etc.:*** *Phase I, which completed in Dec 2000 was to study the need for graphical weather information. Phase II, which completed in Dec 2002, concerned weather product development. .*
- ***How will operations be changed/improved:*** *improved situational awareness and improved decision making by General Aviation pilots with respect to weather hazards, assisting in the reduction of aircraft accidents attributable to weather.*

**PROGRAM/PROJECT MANAGEMENT**

- ***Basic guidance document for this program:*** WxAP Project Plan.
- ***Program/Project verification process:*** NASA sponsored annual Weather Accident Prevention reviews, Aviation Safety Program Executive Council reviews, and reviews/audits at the project/element level.
- ***Method used for end product validation:*** Combination of (a) system-level modeling and simulations, (b) laboratory-based experiments and (c) flight experiments via appropriate industry and/or NASA research aircraft. Many of these validation efforts are performed under cost-shared cooperative research agreements with industry partners.
- ***Operational training for the user:*** Training guidance for the use of new graphical weather information technologies will be developed in conjunction with the AvSP System Wide Accident Prevention (SWAP) project.

**SCHEDULE/IMPLEMENTATION**

- ***Next major program milestone:*** N/A
- ***Program becomes operational:*** N/A
- ***Plans for further improvements:*** N/A