

Rapid Update Cycle (RUC) Model

PROGRAM/PROJECT: Aviation Weather Research Program/Model Development & Enhancement Product Development Team [<http://www1.faa.gov/aua/awr/>]

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

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SERVICE AREA(S)/INITIATIVE (S)

- *National Aviation Weather Initiatives:*
1: 11,13 2: 11,12 3: 7 6: 10

FUNDING

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

TYPE OF PROGRAM/APPLICATION

R&D/Product Development

SCOPE OF PROGRAM/PROJECT

- *What's being developed, procured, etc:* improvements to the RUC model that will allow better analyses and predictions of hazardous aviation impact variables.
- *How will operations be changed/improved:* improve safety of flight operations within the National Airspace System.

PROGRAM/PROJECT MANAGEMENT

- *Basic guidance document for this program:* AWRP Technical Direction for the Model Development and Enhancement Product Development Team.
- *Program/Project verification process:* Monthly and quarterly reporting, program reviews, and RE&D Advisory Committee Project Assessments.
- *Method used for product validation:* Real Time Verification System (RTVS).
- *Operational training for the user:* N/A

SCHEDULE/IMPLEMENTATION

- *Next major program milestone:* Replacement by WRF model in 2006.
- *Program becomes operational:* RUC-20 became operational in 2003.
- *Plans for further improvements:* Higher resolution version of the RUC model consistent with enhancements to NCEP's computational resources.