

## Oceanic Convective Diagnosis (OCD) Product

**PROGRAM/PROJECT:** Aviation Weather Research Program, Oceanic Weather Product Development Team  
[<http://www.rap.ucar.edu/projects/owpdt/description.html>]

**LEAD AGENCY/COLLABORATING AGENCIES:** Federal Aviation Administration (FAA), National Center for Atmospheric Research (NCAR)

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### SERVICE AREA(S)/INITIATIVE(S)

- *National Aviation Weather Initiatives:*  
2: 1

### FUNDING

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

### TYPE OF PROGRAM/APPLICATION:

R&D/Product Development

### SCOPE OF PROGRAM/PROJECT

- *What's being developed, procured, etc.:* expert system framework that merges cloud top height, oceanic lightning, and cloud classification algorithms to produce a true diagnosis of convection relative to flight level in remote/oceanic regions.
- *How operations will be changed/improved:* Enhanced safety over oceanic and remote regions through high-resolution (space and time) alerting of hazard areas.

### PROGRAM/PROJECT MANAGEMENT

- *Basic guidance document for this program:* Oceanic Weather Product Development Team (OWPDT) 7-year Plan.
- *Program/Project verification process:* Aviation Weather Technology Transfer (AWTT) process.
- *Method used for end product validation:* Human (pilot) reporting; comparison to other satellite imagery; verification of algorithms over data-rich regions such as the Gulf of Mexico and CONUS.
- *Operational training for the user:* Text, hands-on, distance learning (web-based).

### SCHEDULE/IMPLEMENTATION

- *Next major program milestone:* AWTT D2 (R&D, testing) FY04.
- *Program becomes operational:* AWTT D4 (operational) FY07.
- *Plans for further improvements:* For FY04, implement expert system that merges lightning and cloud classification. Other data sets and diagnostics will be added as diagnostic skill is demonstrated (FY05 and beyond).