Proposals Approved for Funding Period FY 2004-2007 for the Environmental Meteorology Program's

Vertical Transport and Mixing Program

The following proposals, in response to DOE's Program Announcement LAB 03-09, have been identified for support by DOE's Environmental Meteorology Program, subject to availability of funds. [Posted March 26, 2003.]

- "Intermittent Turbulence and Diffusion in Very Stable Environments: A Numerical Study using Direct Numerical Simulations of Turbulence" -- James C. Barnard, Bruce J. Palmer, and James. J. Riley, Principal Investigators
- "Turbulent Transfer in the Nocturnal Boundary Layer and its Representation in Mesoscale Numerical Models" -- Larry Berg and Jerome Fast, Principal Investigators
- "Using SF6 Tracer to Quantify Vertical Mixing within the Stable Boundary Layer" -- Kirk Clawson, Principal Investigator
- "Measurements of Elevated Turbulence and Convergence in the Salt Lake Basin" -- Richard L. Coulter, Mikhail S. Pekour, and Tim J. Martin, Principal Investigators
- "Vertical Mixing of Trace Gases within the Valley Atmosphere during Stable Conditions" -- Jerome Fast, Principal Investigator
- "Mixing and Segregation of Chemical Trace Gases and Aerosols in the PBL" -- V. R. Kotamarthi and Richard L. Coulter, Principal Investigators
- "An Observational, Numerical, and Theoretical Study of Time-Varying Turbulence in the Transitional Atmospheric Boundary Layer" -- William J. Shaw, Principal Investigator
- "Vertical Transport and Mixing during the Morning Transition Period" -- C. David Whiteman, Principal Investigator


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Contact: J. Christopher Doran (509) 372-6149, e-mail: christopher.doran@pnl.gov

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