

SUMMARY OF RESEARCH ACTIVITIES

TITLE: LAMPS Software

Research Investigators Involved:

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Significant Accomplishments to Date in FY-84:

The dynamic prediction model along with its macro-processor capability and data flow system from the Drexel Limited-Area and Mesoscale Prediction System (LAMPS) have been converted and recoded for the Perkin-Elmer 3220. The previous version of this model was written for Control Data Corporation (CDC) 7600 and CRAY-1a computer environment which existed until recently at the National Center for Atmospheric Research (NCAR). The purpose of this conversion is to prepare LAMPS for porting to computer environments other than that encountered at NCAR.

Focus of Current Research:

The revised model system is currently being tested in preparation for porting to both NCAR's current Cray-1a environment and the CDC 205 vector computer. Thus, the emphasis is shifting from programming tasks to model simulation and evaluation tests. During the near future the model system will be tested on real-data meteorological systems in support of the VAS Cooperative Project at the Marshall Space Flight Center.

Plans for FY-85:

Convert and recode the remaining programs in LAMPS for portability to other computer environments in support of the VAS Cooperative Project.