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Educational Program

In an effort to foster the use of ARPS as a multidisciplinary educational resource at both the graduate and undergraduate levels, the model development team is creating a suite of model-based experiments suitable for use as homework or term project assignments in a number of disciplines, including meteorology, computer science, applied mathematics, physics, and engineering. These problems, the solutions to which will be provided by CAPS, will allow students to explore fundamental issues in fluid flow (*e.g.*, instabilities, effects of rotation, stratification, boundary conditions, input data, *etc.*), parallel processing (effects of code granularity on performance, load balancing, vectorization, *etc.*), and numerical analysis (stability and characteristics of solution techniques, solution convergence rates, spatial and temporal resolution and filtering effects, *etc.*). In addition to directed problems in which the student is led through a series of steps on the path toward a particular result (*i.e.*, a cookbook approach), suggestions will be provided for ways in which students can explore their own interests using the code.

We anticipate making the first suite of problems available by fall of the 1995, and it is our hope that this suite will grow by virtue of contributions from other scientists and students. We encourage those interested in this project to contact us by regular or electronic mail at the addresses listed elsewhere in this Guide.