

High-resolution hurricane modeling, adaptive mesh refinement, improved physical parameterizations, wave-ocean coupling, and hurricane-climate-change projections

NOAA/GFDL and Princeton University are committed to develop an advanced global non-hydrostatic high-resolution modeling capability for short-term real-time hurricane predictions and for seasonal to decadal simulations to understand the relationship between hurricane frequency/intensity and climate-change. As part of this commitment, GFDL and Princeton University seek to recruit three scientists with a keen interest in this topic. We are open to a wide range of candidates, from recent PhD's to experienced scientists. The successful candidates must have a strong background with demonstrated experience in numerical modeling, but experience in hurricane predictions/simulations is not necessary. A Ph.D. in atmospheric or oceanic sciences is preferred, but candidates with a Ph.D. in related disciplines will also be considered"

There are three main areas of interest: a) static and adaptive mesh refinement within a global non-hydrostatic weather-climate modeling framework for improving hurricane simulations/predictions, b) development of a wave-ocean coupling capability and an improved set of physical parameterizations within the GFDL global high-resolution model, and c) to design and to carry out experiments for hurricane predictions and for studying the hurricane-climate connection.

These research and development activities will occur within the Cooperative Institute for Climate Science (CICS), a joint research institute involving NOAA's Geophysical Fluid Dynamics Laboratory (GFDL) and Princeton University. This is a multi-year project with an initial appointment for one year. Extensions are possible based on funding and performance.

Applicants are asked to send curriculum vitae, a statement of research experience and interests, and arrange for three letters of recommendation to be sent Dr. Isaac Held, c/o Anna Valerio, Princeton University, AOS Program, Sayre Hall, 300 Forrester Road, Princeton, NJ 08540-6654 or to apval@princeton.edu. Applications received before June 15, 2009 or earlier will receive first consideration. For additional information, contact Dr. Shian-Jiann Lin (shian-jiann.lin@noaa.gov).

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