

CMMAP Publishing Initiatives: Peer-reviewed journal and multi-authored book

The [Journal of Advances in Modeling Earth Systems](#) is a new open-access journal intended to provide a scholarly "home base" for modelers of the Earth system.

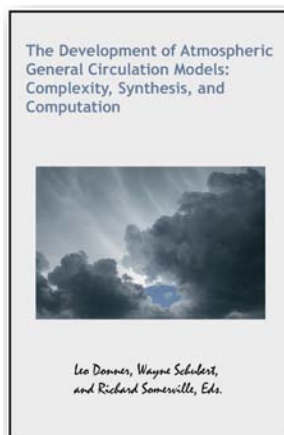
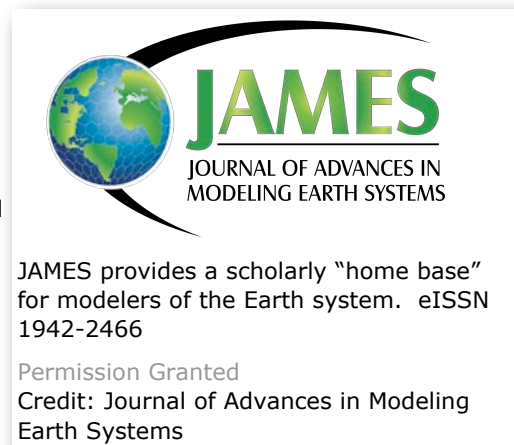
JAMES brings together scholarly articles on a wide range of disciplines focused on physical modeling of the Earth system, including simulations of weather, climate, and other geophysical processes. The journal welcomes both value-added review articles and short technical tutorials.

JAMES published 16 high quality papers in the first full volume, Vol. 1, 2009. Publications include a review of Land-surface-atmosphere-coupling (Betts); a pair of articles on recent advances in Large-eddy simulations of tropical convection (Moeng et al. and Kharioutdinov et al.). Articles currently in press and scheduled for publication in 2010 include an analysis of tropical cyclone activity (Emanuel) and an intercomparison of GCM dynamical cores (Lauritzen et al.).

A strong team of Editors organizes and evaluates the anonymous peer review of manuscripts submitted to JAMES. Authors are given the option of opening up their manuscripts for a public, informal, moderated online discussion, which runs in parallel with the anonymous peer-review process. An esteemed Advisory Board helps chart the direction of the journal.

In JAMES, the Center provides its own researchers, as well as members of the broader Earth systems modeling community, a venue to disseminate and advance their research. JAMES is published in collaboration with CMMAP and the Institute of Global Environment and Society (IGES).

JAMES is the first international online scientific journal established by an NSF-sponsored STC focused on climate modeling and numerical weather prediction. Dr. David Randall, the Center's PI, serves as the Chief Editor of JAMES. Dr. James Kinter, a director at IGES, is the Chair of the journal's Advisory Board.



Tentative cover design for the multi-authored book produced by CMMAP.

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"The Development of Atmospheric General Circulation Models: Complexity, Synthesis, and Computation" is a multi-authored text that provides a unique history and current status of climate models. The book features specialists in Earth systems modeling, graduate students with a background in Atmospheric Science, and a wider group of physical and biological scientists interested in coupling Atmospheric General Circulation Models (AGCMs) to ocean and land surface models.

The book includes chapters on the history of early Numerical Weather Prediction (NWP) and climate models; the use of climate models in IPCC; and the current state of Earth systems model development.

Editors are Leo Donner (Geophysical Fluid Dynamics Laboratory/NOAA), Wayne Schubert (Colorado State University Department of Atmospheric Science) and Richard Somerville (Scripps Institution of Oceanography).

The book is currently being prepared for publication by Cambridge University Press, and will be available in February, 2011. <http://www.cambridge.org/catalogue/catalogue.asp?isbn=9780521190060>

Both publications will emerge as significant outcomes from the Center, enduring well beyond the lifespan of the STC.