

January 12, 2019

Call for Papers:

Special Edition on “DYAMOND: The DYnamics of the Atmospheric general circulation Modeled On Non-hydrostatic Domains”

in *Journal of the Meteorological Society of Japan (JMSJ)*

Project DYAMOND describes a framework for the intercomparison of an emerging class of weather and climate models that, through their resolution of the major modes of atmospheric heat transport, endeavor to represent the most important scales of the full three-dimensional fluid dynamics of the atmospheric circulation. Phase zero of DYAMOND has been resulted in simulations using nine models from groups in Japan, Germany, France, the US, and the UK. The project, and simulation data, are open to all who have interests in contributing simulations or analyzing output. Simulations shall be performed for a forty day period with the goal of: (i) identifying similarities and differences that emerge at storm resolving scales (1 km to 5 km) as compared to traditional (hydrostatic-scale) representations of the atmospheric circulation; and (ii) to better define the frameworks and protocols for subsequent, and scientifically more ambitious, phases.

The Special edition accepts papers on specific analysis of the DYAMOND results either through the analysis of individual model and the comparison of different models, or simply the description of individual models that have not before been used in a global storm resolving configuration. The special edition also accepts papers related to studies on DYAMOND or similar global storm resolving simulations including reviews on current activities and future directions of global high-resolution models, and analyses of computational or performance issues associated with such computationally intensive models. An invited review article providing historical perspective or current activities will be an additional feature of this special edition.

About submission

Please read carefully Instructions for the authors shown at

<http://jmsj.metsoc.jp/instructions.html>

and submit the manuscripts on the online submission system:

<https://mc.manuscriptcentral.com/jmsj>

Choose ‘DYAMOND’ during the submission process. Please also mention that your submission is for

“DYAMOND” in the cover letter.

The submitted manuscripts follow ordinary review procedure. The authors can choose their preferred editor-in-charge among the editors for this special edition. Those papers that are not in time for submission or publication in the special edition may be considered for publication in ordinary issues.

Important dates

Deadline of submission:

31 December 2019

Publication:

In regular issues of 2019-2020

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