



Special Issue on Climate Dynamics

Call for Papers

Climate dynamics is associated with atmospheric processes averaged over timescales of weeks to millennia. Climate dynamics is concerned with how natural laws determine the climate. In this respect it is somewhat distinct from climatology, which is a description of observed climate variables. Climate variability and predictability pose difficult mathematical, computational, and observational questions that have generated increased intellectual excitement in recent years. The answers to these questions have important ramifications for society, from planning for next year's electrical demand to answering complex questions involving long-term global change. The goal of this special issue is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in this area of **climate dynamics**.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on exploring **climate dynamics**. Potential topics include, but are not limited to:

- The dynamics of extreme weather events
- Weather system dynamics in tropical, midlatitude and polar regions
- Interactions of atmospheric flows with cloud physics and/or radiation
- Links between the atmospheric water cycle and weather systems
- Tropical-extratropical and midlatitude-polar interactions
- Atmospheric teleconnections and stratosphere-troposphere coupling
- Boundary-layer dynamics and coupling to land, ocean and ice
- Atmospheric variability and predictability on time scales from minutes to decades

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly specify the “**Special Issue**” under your manuscript title. The research field “**Special Issue - Climate Dynamics**” should be selected during your submission.

Special Issue timetable:

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