Special Issue

Coupled Climate System Modeling

Message from the Guest Editors

Coupled climate models can be used in the prediction and projection of the climate system. More than one hundred versions of climate/earth system models are participating a new phase of the Coupled Model Intercomparison Project (CMIP6). More analysis efforts should be dedicated using these outputs from multiple coupled models to understand how future climate would be. This Special Issue focuses on the development, evaluation, and application of the coupled model of the complex climate system. Topics include but are not limited to:

- Development of the coupled climate/earth system model;
- Evaluation of the CMIP6 models and improvements from CMIP3 to CMIP6;
- Coupled model data assimilation technique;
- Short-term climate prediction using coupled model assimilation;
- Analysis of output from the Flux-Anomaly-Forced Model Intercomparison Project (FAFMIP);
- Ocean change in a warming background using coupled model simulations.

Guest Editors

Dr. Xiao Dong

Dr. Jiangbo Jin

Dr. Hao Luo

Deadline for manuscript submissions

closed (27 May 2022)

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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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