climate

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Climate and Atmospheric Dynamics and Predictability

Guest Editors:

Dr. Ioannis Pytharoulis
Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki (AUTh), 54124 Thessaloniki, Greece

Dr. Petros Katsafados
Department of Geography, Harokopio University of Athens, 16122 Athens, Greece

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Message from the Guest Editors

The state of the weather and climate is largely defined by the interactions between the various components of the climate system (atmosphere, hydrosphere, land surface, cryosphere, and biosphere). The understanding of the atmospheric and climate dynamics, that is, how the natural laws determine the weather and climate, and their prediction/ projection, are essential for life, property, and environment. […]

The aim of this Special Issue is to comprise review and original observational, theoretical, and modelling studies on the dynamics of the atmosphere and the climate system, as well as on their predictability at different spatiotemporal scales.Topics of interest include, but are not limited to, the following:

- Dynamics of intense/ high impact weather phenomena and low frequency oscillations
- Climate dynamics
- Land/sea–air interaction
- Numerical weather prediction models and data assimilation
- Climate models
- Weather forecasting and climate projection techniques
- Weather and climate model evaluation.

Prof. Ioannis Pytharoulis
Prof. Petros Katsafados
Guest Editors

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Special Issue