

## Special Issue

# Weather Research and Forecasting (WRF) Model

### Message from the Guest Editor

The weather research and forecasting model is playing a key role in the NWP history of the 21st century. Its impact on meteorology and atmospheric science research is demonstrated by the increasing number of articles published in peer-reviewed journals during the last decade. From a NWP perspective, the progressive evolution from single to ensemble forecasting paradigms and the availability of new observation data bases—such as the increasing satellite products—are contributing to the development of new validation techniques. Moreover, in recent years the WRF model has provided new capabilities for different applications in hydrology, the emission and transport of aerosols, severe weather events or the regional climate. This Special Issue offers the opportunity to publish quality articles on WRF model from a broad perspective, including mesoscale processes; severe precipitation and wind episodes; data assimilation; physical parameterization schemes; probabilistic forecast; validation; regional climate or chemical, hydrological and atmosphere–ocean interactions.

---

### Guest Editor

Dr. Eduardo García-Ortega

Environmental Institute, Department of Applied Physics, Universidad de León, 24071 León, Spain

---

### Deadline for manuscript submissions

closed (1 September 2019)



## Atmosphere

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.9



[mdpi.com/si/20529](https://mdpi.com/si/20529)

*Atmosphere*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[atmosphere@mdpi.com](mailto:atmosphere@mdpi.com)

[mdpi.com/journal/  
atmosphere](https://mdpi.com/journal/atmosphere)





# Atmosphere

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.9



[mdpi.com/journal/  
atmosphere](https://mdpi.com/journal/atmosphere)



## 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

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

#### Journal Rank:

CiteScore - Q2 (Environmental Science (miscellaneous))