

## Special Issue

# Transition from Linear to Non-Linear Flows in Atmospheric Processes

### Message from the Guest Editor

Atmospheric flows vary in form, and the best understood are linear, often assumed to be of small amplitude. The purpose of this Special Issue is to investigate the transitional region more thoroughly. Studies may include the development of vortical motions and turbulence throughout the troposphere, stratosphere, mesosphere and ionosphere, as well as tornadoes, severe weather, wave–wave coupling, jet-stream instabilities, wave–radiation and even plasma instabilities. Observational, laboratory and numerical papers are encouraged, provided they elucidate the dynamical processes involved.

---

### Guest Editor

Prof. Dr. Wayne Hocking

Department of Physics and Astronomy, University of Western Ontario,  
London, ON N6A 3K7, Canada

---

### Deadline for manuscript submissions

closed (2 April 2018)



## Atmosphere

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.9



[mdpi.com/si/10978](https://mdpi.com/si/10978)

*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 2.5  
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))