



## Regional Changes in Landfalling Tropical Cyclones and Their Impacts

Guest Editors:

**Dr. Cindy Bruyere**

National Center for Atmospheric  
Research, Boulder, CO 80305,  
Colorado

**Dr. David Henderson**

College of Sciences and  
Engineering, James Cook  
University, Douglas, QLD 4811,  
Australia

**Dr. Bruce Buckley**

Insurance Australia Group  
Limited, Tower Two, Darling Park,  
201 Sussex Street, Sydney, NSW  
2000, Australia

Deadline for manuscript  
submissions:

**closed (10 March 2022)**

### Message from the Guest Editors

Dear Colleagues,

Landfalling tropical cyclones are among the deadliest and most destructive of all natural meteorological hazards. Human-induced climate change exacerbates the effects of many weather and climate extremes, including tropical cyclones. Impacts of tropical cyclones are complex, non-linear, and region-specific. This Special Issue encourages interested researchers to submit papers focusing on novel approaches to assessing current and future region-specific implications of landfalling tropical cyclones and their impacts.

Potential research topics include but are not limited to:

- Rapid intensification prior to landfall;
- Extreme rainfall and flooding associated with tropical cyclones;
- Impact of climate change on translation speed;
- Relationships between intensity, size, and TC-related damages;
- Compound and connected extremes;
- Storm surge;
- Papers comparing and contrasting Hurricanes Katrina and Ida.

Dr. Cindy Bruyere  
Dr. David Henderson  
Dr. Bruce Buckley





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Ilias Kavouras**

Environmental, Occupational,  
and Geospatial Health Sciences,  
CUNY School of Public Health,  
New York, NY 10027, USA

## 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!

## 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)*)

## Contact Us

---

Atmosphere Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/atmosphere](https://mdpi.com/journal/atmosphere)  
[atmosphere@mdpi.com](mailto:atmosphere@mdpi.com)  
[X@Atmosphere\\_MDPI](https://twitter.com/Atmosphere_MDPI)