Typhoon/Hurricane Dynamics and Prediction (2nd Edition)

Guest Editors:

Dr. Ching-Yuang Huang
Department of Atmospheric Sciences, National Central University, Taoyuan City 320, Taiwan

Dr. Shu-Ya Chen
GPS Science and Application Research Center, National Central University, Taoyuan City 320, Taiwan

Dr. Kao-Shen Chung
Department of Atmospheric Sciences, National Central University, Taoyuan City 320, Taiwan

Deadline for manuscript submissions:
27 August 2024

Message from the Guest Editors

Dear Colleagues,

This Special Issue is the second edition in a series of publications dedicated to "Typhoon/Hurricane Dynamics and Prediction" (https://www.mdpi.com/journal/atmosphere/special_issues/typh

The advancement of data assimilation has greatly enhanced the forecast skill of tropical cyclone (TC) prediction. Satellite data that provide significant coverage over entire TCs and their surrounding environment offer good prospects for the improvement of the synoptic-scale condition that largely controls the track of TCs over vast oceans. The multi-utilization of various remote sensing data has been essential to determining the optimal impacts of observations on typhoon/hurricane forecasts. However, these are not being adequately pursued at present due to limited resources and great challenges arising in the application of advanced data assimilation techniques. Therefore, we especially encourage potential contributors to present works addressing model initialization in which convective processes associated with TCs are significantly modulated, and thus those that increase the dynamic complexity of TC track behaviors.

mdpi.com/si/182702

Special Issue

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