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Prediction and Modeling of Extreme Weather Events

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Message from the Guest Editors

Dear Colleagues,

Extreme events are currently becoming more frequent and extreme in many regions. Unfortunately, these events are causing numerous losses of life and property, especially in places where more socioeconomically vulnerable people live, which has awakened interest in the issue of climate justice.

Currently, the countries that are the largest emitters of GHG are also the ones that develop atmospheric general circulation models, used both at the weather and climate scale. However, these models are often neither validated nor adapted to the atmospheric conditions of countries located in the equatorial and subtropical zones of the Southern Hemisphere.

Thus, within the idea of climate justice, the proposal would be an edition focused on the application/validation of numerical modeling.

The articles can be both about climatic extremes linked to the occurrence of prolonged droughts, intense precipitation volumes, heat waves, etc., and the prognosis of events on a more regional scale, such as floods, landslides, severe storms, cyclones, etc.

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Editor-in-Chief

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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!

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