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Central America and Caribbean Hydrometeorology and Hydroclimate

Guest Editors:

Dr. Luis Gimeno

Dr. Ana María Durán-Quesada

Dr. Paulina Ordoñez

Dr. Rogert Sorí

Deadline for manuscript submissions:
closed (31 October 2020)

Message from the Guest Editors

This Special Issue invites contributions from studies in a wide range of topics and subtopics, focusing on Central America and Caribbean hydrometeorology and hydroclimate. The aim is to deepen knowledge already known and put into discussion new assessments and approaches for investigating atmospheric systems, processes and mechanisms that are involved and linked to the hydrological cycle. Main topics:

1. Observed changes in precipitation and future projections in climate change scenarios.
2. The surface-atmosphere water interactions through: precipitation, evaporation, surface runoff, soil moisture, groundwater and stream flows.
3. Impact of land use change on rainfall variability.
4. Atmospheric moisture transport: a bridge between evaporation and precipitation
5. Extreme Events: droughts, floods, and associated mechanisms
6. Numerical and statistical modeling
7. Warm Pools, Low-Level Jets, Cold Fronts and Monsoons
8. Tropical Cyclones
9. Impact of Modes of Climate variability on hydrological regimes
10. Remote Sensing and hydrological measurements
11. Hydrometeorological Risks
12. Water Resources Management and adaptation strategies

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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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