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# Impacts of Climate Change on Tropical Cyclone Activities: Cloud-Radiation Feedback and Dynamics

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# **Message from the Guest Editors**

The atmosphere, ocean and land has been warmed and many changes in the climate system become larger in direct relation to increasing global warming, according to AR6 of IPCC. Whether the characteristics of tropical cyclones (TC) have changed or will change in a warming climate is an important issue, particularly owing to the large societal impacts. However, the subject of considerable investigation is often with conflicting results. The role of cloud–radiation is argued to be critical in TC development, but it remains unclear how clouds will change with global warming and feed back to climate sensitivity. This Special Issue features studies addressing the interaction of cloud–radiation feedback and dynamics in TC genesis and development on different spatial-temporal scales from the globe to storm.

This Special Issue includes, but is not limited to, the following topics:

- 1 Role of cloud-radiation interaction in TC.
- 2. Dynamics of TC genesis and development
- 3. Climate change and its impact to TC activities
- 4. Impact of ocean-atmosphere-land interaction to TC
- 5. Risk assessment and regional adaptation strategy for TC hazard









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# **Message from the Editor-in-Chief**

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