Special Issue

Climate Change Adaptation in Agriculture

Message from the Guest Editor

Agriculture is shaped by the environment, and weather extremes, and the later, depending on their magnitude, extent, and arrival time, can easily harm production. Extreme rainfall variability that leads to floods and droughts can cause catastrophic harm to crops at various stages of development. Climate change spawned weather patterns such as cyclonic storms, high tides and tidal surges, sea level rise, extreme precipitation and floods, droughts, heat and cold waves are already wreaking havoc on humans and agriculture. Developing countries with low adaptive capacity and high dependency on agriculture will be more vulnerable to climate change though agriculture in industrialized countries also will not be immune to the threats. Approximately 800 million people are currently food insecure, with the majority of them living in climate-vulnerable Africa and Asia. Food production must increase by at least 60% by 2050 to feed growing population but climate change has become a significant threat to agriculture sector. To facilitate this goal, agriculture sector must receive unrestricted support for climate change adaptation.

Guest Editor

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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!

Editor-in-Chief

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