Special Issue

Madden-Julian Oscillation

Message from the Guest Editor

The Madden-Julian Oscillation (MJO) is the most important mode of tropical intraseasonal variability. The MJO influences precipitation and temperature variability in the tropics, as well as extratropics and high laititudes of both hemispheres. The influential nature of the MJO has also been noted on occurrences of extreme weather events, accuracy of weather forecasts, interactions with El Niño/Southern Oscillation (ENSO), deep ocean variability, distributions of tropical cyclones and hurricanes, tropospheric ozone changes, surface chlorophyll, and phytoplankton variations in tropical oceans and coastal areas. The oscillation exhibits important seasonal changes and pronounced interannual and multi-year variations. This Special Issue invites original research papers dealing with any aspects related to the MJO and its role in weather and climate variability. Review papers are also welcome.

Guest Editor

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Deadline for manuscript submissions

closed (31 August 2017)

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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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