

Special Issue

ENSO, Ocean Heat and Climate Change

Message from the Guest Editor

This Special Issue aims to (1) highlight improvements in our understanding of physical processes of ENSO, ocean heat change and the climate change from observations and climate model simulations and to (2) call attention to key areas where our understanding remains incomplete and could be developed by further progress in observations and climate model simulations. As such, we welcome research topics concerning new developments in these fields, as well as those addressing their evaluation and intercomparison. While a broad range of ideas are welcome, topics specifically encouraged include:

- ENSO initiation and development mechanisms.
- Processes influencing ENSO development and prediction.
- Atmosphere–ocean coupled variability and change—effect of exchange at surface on the atmosphere energy and ocean heat, as well as their transports.
- Interactions between scales—multiscale interactions, boundary layer, ocean, and atmosphere.
- Climate change effect on the ENSO onset and development.
- ENSO effect on the environment and society.

Manuscripts may present original research or review previous work and summarise the current state of the science.

Guest Editor

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Deadline for manuscript submissions

closed (15 April 2022)



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About the Journal

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

Dr. Daniele Contini

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