Special Issue

Recent Advances in Researches of Ocean Climate Variability

Message from the Guest Editors

The objective of this special issue is to focus on recent advances in researches of ocean climate variability. We invite all interested researchers to show their original research articles as well as review articles that will stimulate the continuing efforts to understand and predict ocean climate variability on various time scales (years-decades to centuries), such as the El Niño/Southern Oscillation (ENSO), Indian Ocean Dipole (IOD), Southern Annular Mode (SAM) and North Atlantic Oscillation (NAO), etc. Theoretical, observational, modelling as well as machine learning studies focusing on elucidating specific physical processes and their contribution to understanding ocean climate variability are all welcome. Especially welcome are regional and global ocean studies; methods and results concerning ocean thermohaline structure and water masses variability for present and future climates; methods and challenges in understanding ocean circulation variability and its influence in future decades; applications of machine learning/deep learning techniques in ocean climate variability, and any other innovative contributions.

Guest Editors

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Dr. Lei Liu

Dr. Yinghao Qin

Dr. Fengxiang Guo

Deadline for manuscript submissions

closed (30 September 2023)

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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

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