

## Special Issue

# Climate Change and Regional Sustainability in Arid Lands (2nd Edition)

### Message from the Guest Editors

This Special Issue is a follow-up to the first Special Issue, entitled “Climate Change and Regional Sustainability in Arid Lands”

([https://www.mdpi.com/journal/atmosphere/special\\_issues/K4Q11ETF22](https://www.mdpi.com/journal/atmosphere/special_issues/K4Q11ETF22)), published in Atmosphere. Potential

research areas for this Special Issue include, but are not limited to, the following: Regional climate modeling and projections with AI technologies;

Machine learning techniques;

Impacts of climate variability and change on water resources in arid regions;

Land–atmosphere interactions and feedback mechanisms in arid ecosystems;

Climate change adaptation and mitigation strategies for arid regions;

Socio-economic implications and policy interventions for sustainable development in arid lands. This Special Issue aims to bring together the latest research and advancements in the understanding of the complex dynamics of arid regions, particularly in the context of climate change and environmental sustainability. It is our hope that the research presented in this Special Issue will inform policy decisions and contribute to the development of sustainable practices in these vulnerable regions.

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### Guest Editors

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### Deadline for manuscript submissions

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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!

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### Editor-in-Chief

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