



Hindawi

Discrete Dynamics in Nature and Society

Special Issue on

Impacts of Climate Change on Biological Dynamics

CALL FOR PAPERS

Climate change is one of the most important global issues, which is threatening the security and stability of ecosystems. It may induce collapse of ecosystems, biological invasion, and loss of biodiversity. Therefore, systematic research on the characteristic of climate change and its impacts on biological dynamics is of great practical significance, which will provide new insights on protection, control, and development of the populations of ecosystems.

This special issue is focused on not only the theoretical findings in the influences of climate change on biological dynamics but also the analysis of real data of climate change or other related issues. Our interest extends beyond diagnosis, evaluation, and challenges to existing areas of effects of climate change on ecosystem dynamics. Such papers not only will reflect the current state of the field but will also have the potential to stimulate and guide future research efforts.

We encourage submissions that offer lighting and insight into fundamental concepts (such as weather patterns, climate change, climate zones, climate factors, global behaviors and bifurcation analysis of biological systems, bifurcation analysis of ecosystems, response of ecosystems to climate change and adaptation strategy, etc.), significant destruction phenomena of ecosystems (such as coastal, maritime, deserts, forests, etc.) caused by global change, or theoretical framework and modelling (such as impact mechanism, adaptation strategies, and dynamical modeling).

We also expect papers that go beyond unifying previous theoretical and empirical work and explore emerging phenomena and novel research areas that merit development. Such papers would not only explain clearly the importance of the phenomena or research area for the ecosystem dynamics field but also describe critical prospect. Such papers may also support some ways to extend researches on adaptation strategy of ecosystem to climate change. All in all, we envisage a special issue that can not only review the prior studies but also redirect research within impacts of climate change on biological dynamics.

Potential topics include, but are not limited to:

- ▶ Global behaviors of biological systems under climate change
- ▶ Bifurcation analysis of biological systems with climate change
- ▶ Data analysis of real biological systems with climate changing
- ▶ Statistical methods or models in biological systems with climate changing
- ▶ Response of ecosystems to climate change and adaptation strategy

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/ddns/iccbd/>.

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