



Climate Change Impacts, Mitigation and Adaptation in Croplands

Guest Editors:

Dr. Jagadeesh Yeluripati

The James Hutton Institute
Craigiebuckler Aberdeen AB15
8QH Scotland UK

Dr. Mark A. Liebig

USDA Agricultural Research
Service, P.O. Box 459, 1701 10th
Ave., S.W., Mandan, ND 58554-
0459, USA

Dr. Ayaka W. Kishimoto-Mo

Institute for Agro-Environmental
Sciences, NARO, 3-1-3
Kannondai, Tsukuba, Ibaraki 305-
8604, Japan

Deadline for manuscript
submissions:

closed (15 December 2021)

Message from the Guest Editors

Changes in climate will have significant impacts on agriculture. climate change will affect the delivery of non-provisioning ecosystem services from agricultural lands (e.g., biodiversity, pollination, nutrient cycling, etc.), with concomitant impacts on environmental quality across multiple spatial scales. It is essential for agriculture to mitigate its contributions to climate change and effectively adapt to its consequences, while concurrently meeting needs of increased production and improved environmental quality. This special issue welcomes articles addressing relevant topics at the nexus of climate change and crop production. Articles highlighting climate mitigation and adaptation with the delivery of provisioning and non-provisioning ecosystem services are encouraged. Furthermore, we welcome articles documenting novel approaches to monitor, model, and upscale environmental change under changing climate for cropping systems across the world. We also welcome contributions describing the development of new and effective technologies that help crop producers mitigate and adapt to climate change.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Daniele Contini

Institute of Atmospheric Sciences
and Climate (ISAC), National
Research Council (CNR), Str. Prv.
Lecce-Monteroni km 1.2, 73100
Lecce, Italy

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!

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank: CiteScore - Q2 (Environmental Science (miscellaneous))

Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
[X@Atmosphere_MDPI](https://twitter.com/Atmosphere_MDPI)