



Impacts of Climate Change on Agricultural Productivity in Semi-Arid Regions

Guest Editors:

Dr. Patrick Laux

Department of Atmospheric
Environmental Research (IMK-
IFU), Institute of Meteorology and
Climate Research, Karlsruhe
Institute of Technology (KIT),
76131 Karlsruhe, Germany

Dr. Seyni Salack

WASCAL Competence Center, 06
BP 9507 Ouagadougou 06,
Burkina Faso, Africa

Deadline for manuscript
submissions:

closed (30 April 2021)

Message from the Guest Editors

The goal of this Special Issue is to collect agricultural climate impact studies in semi-arid regions in order to contribute to the development of better management adaptation strategies for the future. This Special Issue seeks contributions on the following themes:

- Agricultural model simulations for different semi-arid regions worldwide, either driven by long-term climate projections or by seasonal climate forecasts;
- Quantification of uncertainties, impact and risk assessments of all kinds of direct and indirect climate (change) effects;
- Performance of ensemble crop predictions, driven by seasonal climate information;
- Optimization of agricultural management options in climate change projections and seasonal climate predictions;
- Actual/potential effects of compound and extreme climate events on crop production and agricultural systems under climate warming of the past and future.





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)