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

Guest Editors:

Dr. Patrick Laux
1. Campus Alpin, Karlsruhe Institute of Technology (KIT), Kreuzeckbahnstraße 19, 82467 Garmisch-Partenkirchen, Germany
2. Institute of Geography, University of Augsburg, Alter Postweg 118, 86159 Augsburg, Germany

Dr. Seyni Salack
WASCAL Competence Center, 06 BP 9507 Ouagadougou 06, Burkina Faso, Africa

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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.

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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!

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Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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