

Special Issue

Modeling the Adaptations of Agricultural Production to Climate Change

Message from the Guest Editors

Climate change and its impacts on agricultural production and food security are a significant source of public concern around the world. In order to reduce the negative impact of climate change on agriculture, maintain crop production levels, and even discover opportunities in agricultural intensification, researchers have made great efforts to assess changes in agricultural climate resources and develop adaptation measures in different growing areas of the world under climate change. Modeling is a key tool for exploring the impact of climate change on agriculture and proposing adaptation strategies. Therefore, establishing closer links between experiments and statistical and/or eco-physiological crop models may not only facilitate the necessary methodological advances but also achieve the above goals. This Special Issue focuses on the quantitative assessment of the impact of climate change on agricultural production based on multi-source model simulation and reveals the role and mechanism of improved management measures in adapting to climate change.

Guest Editors

Prof. Dr. Dengpan Xiao

College of Geography Science, Hebei Normal University, Shijiazhuang 050024, China

Prof. Dr. Wenjiao Shi

Institute of Geographic Sciences and Natural Resources Research, CAS, Beijing 100101, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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