



Accounting for Climate Change in Water and Agriculture Management

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Message from the Guest Editors

The relationships between water, agriculture, and climate are highly interdependent and complex. Weather and climate-related disasters such as droughts, floods, and wildfires are becoming far too common.

For this Special Issue, we welcome contributions that cover a range from basic science and theories to application studies around the following topics:

- Use of surface hydrology models for water resource assessment;
- Use of in situ, satellite, and modeled data in surface hydrology models;
- Use of satellite and modeled data for drought and flood vulnerability assessments;
- Multi-source data assimilation for improved hydrological accounting and forecasting;
- Development, improvement, validation, and comparison of hydrometeorological datasets;
- Water availability assessment and forecasting;
- Basin water accounting methods, forecasting, and applications;
- Shifts in precipitation patterns and extremes;
- Melting glaciers and snow drought;
- Sustainable use of land and water under changing climate;
- Climate forecast applications for food security and agricultural management;
- Case studies on climate-smart water and agricultural management.

