



*climate*



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## Modified Hydrological Cycle under Global Warming

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### Message from the Guest Editors

Dear Colleagues,

Global warming is affecting water hydrological cycles worldwide, changing precipitation amounts and timing and hydrologic losses, and making previously extreme events more frequent. Hydrology and water resources in high altitudes are affected by cryospheric down wasting, and downstream desert areas may lose large amounts of water resources. The modified water cycle under global warming will have fallout on water and food security, energy production, ecosystem services, and adaptation measures will be needed.

This Special Issue will, thus, welcome contributions tackling the broad range issue of hydrological changes, water availability, and adaptation in a broad array of conditions, such as:

- Hydrological modeling under global warming;
- Water resources prediction, sensitivity analysis, and adaptation measures;
- Climatic and hydrological trends' assessment;
- Impact of climate change on cryospheric water;
- Enhanced magnitude of extreme events;
- Modified water needs for multipurpose use;
- Effects of modified hydrology on riverine environment.



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# Special Issue