Special Issue

Multisectoral Climate Indicators and Impact Assessments in CMIP6 Models

Message from the Guest Editors

Multisectoral climate indicators in CMIP6 models are designed to assess risks and impacts across various sectors(agriculture, water resources, health, energy). These indicators integrate physical climate variables with sector-specific thresholds and socio-environmental contexts to better inform adaptation, mitigation, and policy decisions. Multisectoral indicators help bridge climate model outputs with actionable sectoral impacts; quantify vulnerability, risks, and exposure across climate systems; and track relevant changes to SDGs. They aid in projecting sectoral impacts under varying socio-economic and emission pathways, aid in informed region risk assessments and policy planning, and are used as input to integrated assessment models. We welcome original research articles, reviews, and case studies applying multisectoral indicators to cross-sectoral climate impacts. Topics include multisectoral climate extremes in agriculture, water, and energy such as ETCCDI indices, extreme temperature, extreme precipitation, heat wave index, cooling/heating degree days, consecutive dry days, hydropower availability, wind energy potential, sea level rise risk, and wildfire risk.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Climate (ISSN 2225-1154) was established in 2013 to provide an open-access outlet for innovative research, review articles, new direction papers, and short communications relevant to all disciplines related to climate at all scales. The journal encourages papers ranging from climate change detection and attribution and Earth system modeling to ecosystem, hydrologic, and socioeconomic impacts and climate mitigation and adaptation measures. The influence of *Climate* is strong and growing (IF 3.2 in 2024, CiteScore 5.7 in 2024).

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