Special Issue

Impact of Atmospheric Chemistry on Local Weather and Local Climate

Message from the Guest Editor

This Special Issue, "Impacts of atmospheric chemistry on local weather and local climate", will call for submissions of papers that demonstrate original research that can overcome current gaps in understanding the interactions between atmospheric chemistry on the one hand side and local weather, and hence local climate, on the other. Review articles are also welcome. The topics will include, but are not limited to examining, the following: 1) the modification of urban weather/climate due to emission and/or air quality changes, 2) the impact of Arctic or other haze on local temperature and moisture conditions, 3) the impact of local scale emission-control measures on local weather/climate, 4) the relationship between different local chemical regimes and local weather, and 5) the impact of local indirect emission-control measures on the weather/climate in the adjacent downwind region. Studies analyzing data from air-quality modeling, monitoring networks, field experiments (ground-based, airborne), and remote sensing are equally welcome. Please send papers addressing climate forcing and/or global aspects to the regular issues of *Climate*.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2019)

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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).

Editor-in-Chief

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indexed within Scopus, ESCI (Web of Science), GeoRef, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Meteorology and Atmospheric Sciences) / CiteScore - Q2 (Atmospheric Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.6 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2025).