Special Issue

Wind⊠Speed Variability from Tropopause to Surface

Message from the Guest Editors

This Special Issue invites submissions on topics including, but not limited to, the following: long term reanalysis and paleoclimate reconstructions of global and regional wind speed trends; extreme wind speed events, gust climatology, and probabilistic hazard assessment: mesoscale and large eddy simulations resolving vertical wind speed structure in jet streaks, convective downdrafts, and boundary layer turbulence; machine learning or data assimilation techniques for retrieving or gap
filling satellite, radar, and lidar wind speed observations; the attribution of observed wind speed changes to anthropogenic forcing or natural modes of variability; the downscaling of CMIP6 wind speed projections for wind energy siting and infrastructure resilience; and the impacts of wind speed variability on ocean circulation, ecosystem dynamics, aviation operations, urban air quality, and socio\(\)economic risk. Submissions that apply novel tools, provide cross\disciplinary perspectives, or locate present and future wind speed variability within a broader climatic context are especially welcome.

Guest Editors

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Deadline for manuscript submissions

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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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