

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.

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Editor-in-Chief

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