Current Status and Future Challenges in Atmospheric Modeling

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Atmospheric chemistry models have been very useful to investigate fundamental molecular processes, analyze field campaign observations, attribute air pollution to sources, assimilate space observations and predict air quality at different spatial and temporal scales. Today, with powerful supercomputer platforms available and new geostationary satellites becoming available, new challenging problems will be addressed, including the simulations of small-scale processes, for example, in urban areas, and the integration of detailed atmospheric modules into comprehensive Earth system models. The presentation will review the present state of atmospheric chemical-dynamical modelling and highlight some challenges for the future.

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Zoom Link (Mixed-mode)

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