



CNRM, UMR 3589

SEMINAIRE CNRM

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***Aerosol-radiation and aerosol-cloud interactions constrained
with process studies and long-term observations***

par **Martin GYSEL**

(PSI, Suisse)

en salle Joël Noilhan

<https://bluejeans.com/731672209/5597>

Résumé :

Atmospheric aerosol particles are known to cause adverse health impacts and affect weather and climate through aerosol-radiation and aerosol cloud interactions. On global scale, anthropogenic aerosol partially masks global warming driven by greenhouse gases, and they remain a major source of uncertainty for e.g. predictions of precipitation changes in a warming climate. Challenges arise due to the variety of sources, the large number of relevant properties, the complexity of aerosol processes, and the high spatial and temporal variability of atmospheric aerosol. An overview of our experimental research in laboratory and field to study aerosol environmental impacts will be provided. The focus will be on the life cycle of black carbon with trend analyses, light-absorption, cloud droplet formation, and remote sensing retrievals as examples.

Pour tout renseignement, contacter Y. Poirier (05 61 07 96 55)
Centre National de Recherches Météorologiques
42, Avenue G. Coriolis - 31057 Toulouse Cedex