



THOMAS DRUGÉ

Postdoctoral researcher
in climate science

RESEARCH INTERESTS

- Atmospheric modelling
- Modelling and study of aerosol-radiation and aerosol-cloud interactions
- Aerosol effects on climate and feedbacks

CONTACT

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Météo-France, Centre National de Recherches Météorologiques (CNRM), Climate and Large-Scales Modelling Group (GMGEC), MOSCA Research Team, 42 avenue Coriolis, 31057 Toulouse (France)

EDUCATION

PhD in regional climate system modelling

Météo-France, CNRM (France) | 2016 – 2019

“Contribution of aerosols to climate scenarios in the Mediterranean for the XXI century in regional scale.”

Supervisors: Dr Marc Mallet, Dr Pierre Nabat & Dr Samuel Somot

MSc in environment – climatology

University of Burgundy (France) | 2014 – 2016

Supervisors: Pr Pierre Camberlin

RESEARCH EXPERIENCE

Postdoctoral researcher - Météo-France, CNRM (France)

- 08/2021 – 03/2024 : Climate-aerosol interactions study (ESM2025 - Horizon 2020 project).
- 01/2020 – 07/2021 : Development and improvement of the aerosols parameterization at the global scale (CAM5_43 - CAM5 project).

Supervisors: Dr Martine Michou, Dr Pierre Nabat & Dr Marc Mallet

LANGUAGE and SKILLS

French: native

English: fluent

Computer skills: Fortran, NCL, R, Matlab, Linux/UNIX environment, LaTeX

REFERENCES

Dr Marc Mallet
CNRM
(Université de Toulouse, Météo-France, CNRS),
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Dr Pierre Nabat
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(Université de Toulouse, Météo-France, CNRS),
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Dr Martine Michou
CNRM
(Université de Toulouse, Météo-France, CNRS),
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PUBLICATIONS

- **Drugé, T., Nabat, P., Mallet, M., Michou, M., Rémy, S. & Dubovik, O. (2022).** Modeling radiative and climatic effects of brown carbon aerosols with the ARPEGE-Climat global climate model. *Atmos. Chem. Phys.*
- **Drugé, T., Nabat, P., Mallet, M., & Somot, S. (2021).** Future evolution of aerosols and implications for climate change in the Euro-Mediterranean region using the CNRM-ALADIN63 regional climate model. *Atmos. Chem. Phys. Discuss.*
- **Nabat, P., Somot, S., Cassou, C., Mallet, M., Michou, M., Bouniol, D., Decharme, B., Drugé, T., Roehrig, R., & Saint-Martin, D. (2020).** Modulation of radiative aerosols effects by atmospheric circulation over the Euro-Mediterranean region. *Atmos. Chem. Phys.*
- **Drugé, T., Nabat, P., Mallet, M., & Somot, S. (2019).** Model simulation of ammonium and nitrate aerosols distribution in the Euro-Mediterranean region and their radiative and climatic effects over 1979-2016. *Atmos. Chem. Phys.*

SCIENTIFIC COMMUNICATIONS

Oral Presentations:

- Drugé, T., Nabat, P., Michou, M., & Mallet, M. (2023). Improvement of the representation of aerosol absorption in CNRM-ESM. ESM2025, ECS seminars - online.
- Drugé, T., Nabat, P., Michou, M., & Mallet, M. (2023). Amélioration de la représentation de l'absorption des aérosols dans ARPEGE-Climat. Ateliers de modélisation de l'atmosphère, Toulouse, France.
- Drugé, T., Nabat, P., & Mallet, M. (2019). Future Euro-Mediterranean climate sensitivity to anthropogenic aerosols. Med-CORDEX, Toulouse, France.
- Drugé, T., Nabat, P., Mallet, M., & Somot, S. (2019). Future Euro-Mediterranean climate sensitivity to aerosols. EGU, Vienna, Austria.
- Drugé, T., Nabat, P., Mallet, M., & Somot, S. (2018). Study of the aerosols role on the future climate over the Mediterranean region. FPS Aerosols, Toulouse, France.

Posters:

- Drugé, T., Nabat, P., Michou, M., & Mallet, M. (2023). Evaluation of coarse aerosols scattering in the longwave spectrum through the use of ecRad with the ARPEGE-Climat global climate model. ESM2025, Grenoble, France.
- Drugé, T., Nabat, P., Mallet, M., & Somot, S. (2018). Radiative and climatic effects of ammonium-nitrate aerosols over the Euro-Mediterranean region. MEDCLIVAR, Belgrade, Serbia.
- Drugé, T., Nabat, P., Mallet, M., & Somot, S. (2017). Integration of nitrate aerosols into the CNRM regional climate system model and estimation of their radiative forcing over the Mediterranean region. MISTRAL, Montpellier, France.