

Maureen Beaudor, Ph.D.

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🌐 <https://mbeaudor.github.io/>

Employment

- 05-2023 – 06-2023 📌 **Postdoc** LSCE (Laboratoire des Science du Climat et de l'Environnement; Gif-sur-Yvette, France) Impact of a future large-scale hydrogen economy on atmospheric composition and climate with the use of an Earth System Model.

Education

- 2019 – 2023 📌 **Ph.D., Université Paris Saclay** LSCE (Gif-sur-Yvette, France).
Thesis title: *Global modelling of ammonia emissions from agriculture and impact on atmospheric chemistry*. Congratulations from the jury commission.
Advisors: Didier Hauglustaine, Nicolas Vuichard and Juliette Lathière.
- 2017 – 2019 📌 **M.Sc. Environmental Science, AgroParisTech** (Paris, France) in Climate Land-Use and Ecosystem Services.
Thesis title: *Natural emissions of pollutants during drought and impact on air quality during Summer 2018 in Europe*.
Advisor: Solène Turquety
- 2016 – 2017 📌 **B.Sc. Environmental Science, Université Paris Saclay** (Paris, France) in Biodiversity of Organisms and Ecology.
- 2014 – 2016 📌 **Classes Préparatoires, Lycée François 1er** (Fontainebleau, France) in Biology, Chemistry, Physics, Geology; Undergraduate program to prepare for the French agronomy and veterinary schools.

Research Publications

Journal Articles

- 1 M. Beaudor, D. Hauglustaine, N. Vuichard, J. Lathière, M. V. Damme, and L. Clarisse, "Present and future impact of NH₃ agricultural emissions on nitrate and sulfate aerosols," *Atmospheric Chemistry and Physics (to be submitted)*, 2023.
- 2 M. Beaudor, N. Vuichard, J. Lathière, and D. Hauglustaine, "A global simulation of agricultural ammonia emissions throughout the century," *Environmental Research Letters (to be submitted)*, 2023.
- 3 M. Beaudor, N. Vuichard, J. Lathière, *et al.*, "Global agricultural ammonia emissions simulated with the ORCHIDEE land surface model," *Geoscientific Model Development*, vol. 16, no. 3, pp. 1053–1081, Feb. 9, 2023, Publisher: Copernicus GmbH, ISSN: 1991-959X. 📄 DOI: 10.5194/gmd-16-1053-2023. (visited on 05/12/2023).

Oral Communications

- Planned 2023 📌 **GEIA** (Brussels, Belgium) - Poster.
- 2022 📌 **IGAC-ICACGP** (Manchester, UK) - Poster.
- 📌 **General Assembly of the ESM2025 Project** (Paris, France) - Talk.

Oral Communications (continued)

- EGU (Vienna, Austria) - Talk.
- 2021 ■ IGAC (online) - Poster.
- IASI (Evian, France) - Talk.

Skills

- Languages ■ Strong reading, writing and speaking competencies for French (native speaker), English and Spanish. Basic level of Italian and beginner in German.
- Coding ■ Python, R, Bash, FORTRAN, CDO/ NCO (Netcdf file processing), \LaTeX .
- Misc. ■ Academic research, \LaTeX typesetting and publishing.

Miscellaneous Experience

Associative Activities

- 2017 ■ **Member of the association "Agromigrateur".** Conversation sessions in French with Afghan refugees.
- 2016 ■ **Ecovolunteer experiences.** Development of agroecology in local communities (Kenya, Ecuador, Galapagos Islands).