

Camille Risi

Address : LMD, case postale 99, 4, place Jussieu, 75252 Paris Cedex 05

Phone: +33-1-44-27-23-13

Mobile : +33-6-44-92-63-37

Fax: +33-1-44-27-62-72

Email : Camille.Risi@lmd.ipsl.fr

Web : <https://www.lmd.jussieu.fr/~crlmd/>

Research

Experience

- 2017 : Habilitation to Supervise Research at Sorbonne Université
- 2011-: CNRS Research Scientist at LMD, Paris
- 2010-2011 : Post-doc at University of Colorado (Boulder, USA) advised by David Noone
- 2006-2009: PhD at LMD, advised by Sandrine Bony and Jean Jouzel, on «Water stable isotopes : applications to the water cycle and climate variations ».

Fields of expertise

Tropical meteorology, Atmospheric convection and cloud processes, Water cycle and land surface interactions, Water isotopes, Global climate and modeling, High-resolution modeling, Paleo-climates.

Awards:

- 2020: AGU's outstanding reviewers
- 2016: Bronz medal of CNRS
- 2010: 3 PhD awards: (1) Prix André Prud'homme de la Société Météorologique de France, (2) Prix Le Monde de la recherche universitaire, (3) Prix de la meilleure thèse de la fondation EADS.

Advising students and post-docs :

- 1+ 3x0.5 post-docs
- 1+4x0.5 graduate students
- >30 undergraduate students

Various responsibilities :

- 2021- : member of the « section 19 » comitee of CNRS (recruiting junior scientists and evaluating senior scientists)
- 2021- : member of the LEFE-IMAGO comitee of INSU (selecting proposals)
- 2018-2019 : member of the SCOA comitee of CNAP (recruiting junior scientists)
- 2016-2017 : member of the CSE01 comitee of ANR (selecting proposals)
- 2013-2016: member of the WCRP-WMO MJO task Force
- 2011-: responsible for asking computational resources for LMD

Editorial activities

- 2012-2020: member of the editorial board of the outreach journal “La Météorologie”

Organization of scientific meetings

- 2023: Co-organizing the international workshop “tropospheric lapse rate: observations and modeling of past, present and future variations” (<https://lapserate2022.sciencesconf.org>). Gathering the convection and paleoclimate

communities.

- 2021: Co-organizing the international workshop: “Water isotopes: from weather to climate”, 70 participants (<https://watercycle.w.uib.no/workshop-stable-isotopes-from-weather-to-climate/>, <https://journals.ametsoc.org/view/journals/bams/103/8/BAMS-D-22-0097.1.xml>)

Grants:

- 2020-2022: LEFE-IMAGO project: SAMiso (Using Cloud-Resolving Simulations to study the impact of convective processes on water isotopes): ~15k€
- 2013-2017: ANR JCJC: Conviso (Evaluating convective processes at play in the Madden-Julian Oscillation using water isotopes): ~150 k€
- 2019-2021: IPSL-EUR project to update and maintain the SimClimat software: ~20k€.

Publications:

>100 publications in peer-reviewed rank A journals; Scopus hindex = 44.

3 most representative publications:

1. **Risi, C.**, Bony, S., Vimeux, F., & Jouzel, J. (2010a). Water-stable isotopes in the LMDZ4 general circulation model: Model evaluation for present-day and past climates and applications to climatic interpretations of tropical isotopic records. *J. Geophys. Res.* (331 citations)
2. Schmidt, G. A., Annan, J. D., Bartlein, P. J., Cook, B. I., Guilyardi, É., Hargreaves, J. C., ... **Risi, C.**, ... & Yiou, P. (2014). Using palaeo-climate comparisons to constrain future projections in CMIP5. *Clim. Past.* (219 citations)
3. **Risi, C.**, Muller, C., & Blossey, P. (2020). What controls the water vapor isotopic composition near the surface of tropical oceans? Results from an analytical model constrained by large-eddy simulations. *J. Adv. Model. Earth Syst.*

Engagement for diversity and gender equality

- 2022 – Managing the working group at LMD on gender equality (https://web.lmd.jussieu.fr/~crlmd/egalite_diversite)
- 2021 – Member of the working group for gender equality of CoNRS (national committee of CNRS).

Teaching

- 2021- : L3 course on convection-clouds at ENS Paris (~30h/year).
- 2012- :>10 courses and events for the continuing education of high-school teachers
- 2015-: yearly M2 course on climate change and modeling (3h/year).
- 2005-2012 : Training of students to become Biology-Geology teacher at Sorbonne University (~10h/year)
- 2006-2009: Teaching Physics and Earth Sciences at Sorbonne University (~60h/year)

Outreach activities

- 2023 : Book for children on climate change : <https://www.fleuseditions.com/9782215182696-le-changement-climatique.html>

- 2023 : Booklet for children on storms : <https://www.ipsl.fr/article/mozaika-des-orages-plein-les-yeux/>
- 2007- : >40 conferences in primary, middle and high schools.
- 2006-: Yearly participation in science festivals : fête de la Science, Forum de la météo...
- 2006-: Development and maintenance of an educational climate simulation software, SimClimat : <https://www.lmd.jussieu.fr/~crlmd/simclimat/>
- >15 outreach articles in La Météorologie and The Conversation

Education

- **2005-2006** : Master «Ocean, Atmosphere, Climate and Remote Sensing» at the Pierre et Marie Curie University (Paris 6) ; Master internship at LMD with Sandrine Bony
- **2004-2005** : «Agrégation» (competitive exam for posts in the teaching staff of french high schools and Universities) of Biology-Geology; accepted 4th.
- **2002-2004** : Earth Sciences at ENS Paris ; internships at MIT with Kerry Emanuel and at LMD with Frédéric Hourdin
- **2000-2002** : «Classes préparatoires» of Biology, Geology, Physics and Chemistry in Paris; accepted at the ENS of Paris.
- **2000**: high school diploma.

Career breaks

- 2020 – :Working 80%
- 2018-2020: 2nd maternity leave (4 months), parental leave (6 months), working half time (12 months)
- 2015-2018 : 1st maternity leave (4 months), working half time (12 months)