



**Welcome
to the 2017 LMDZ training course!**

11/12/13 December 2017 – LMD Jussieu

The program (1/3)

- 9:00-9:30 Welcome and Introduction (M-P Lefebvre)
- 9:30-10:15 General presentation to LMDZ (F. Hourdin)
- 10 :15-11:15 Code structure, install & compile the model Tutorial 1 (I.Musat)
- 11:15-11:35 Coffee break
- 11:35-12:05 Students presentation (1 slide for each)
- 12:05-13:05 Input/output (L.Fairhead)
- 13:05-14:00 Lunch
- 14:00-17:00 Tutorial 1: different versions of the model, aquaplanet, sensitivity tests

The program (2/3)

9:00-10:45	Model physics (C.Rio, M.Bonazzola,J-Y Grandpeix)
10:45-11:05	Coffee break
11:05-11:35	Configurations/input files/forcings (L. Guez)
11:35-12:05	Parallelism (E.Millour)
12:05-12:35	Presentation of tutorial N°2, different options (A.Sima)
12:35-13:05	Aerosols (O.Boucher)
13:05-14:15	Lunch
14:15-15:15	Clouds (C.Rio)
15:15-16:15	LMDZ1D (M-P Lefebvre)
16:15-17:00	Tutorial N°2: zooming, nudging, tracers, Orchidee, 1D, XIOS, parallelism

The program (3/3)

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|-------------|---|
| 9:00-10:30 | Dynamics: grid/temporal discretization/stability/diffusion (E. Millour) |
| 10:30-10:50 | Coffee break |
| 10:50-11-50 | Atmosphere/surface interface (F.Cheruy) |
| 11:50-12:15 | svn branches (L.Fairhead) |
| 12:15-13:00 | Tutorial N°2 |
| 13:00-14:00 | Lunch |
| 14:00-15:30 | LMDZ configurations: uses and tuning (F. Hourdin) |
| 15:30-17:00 | Tutorials (end) |

All the presentations and tutorials texts are/will be on LMDZ website
(<http://lmdz.lmd.jussieu.fr/le-projet-lmdz/formation/2017>)

Who are we?



Marine BONAZZOLA

Enseignant-chercheur UPMC

Orography



Jean-Yves GRANDPEIX

Collaborateur bénévole

Physical package



Marie-Pierre LEFEBVRE

Ingénieure Météo-France

1D model



Frédéric HOURDIN

Chercheur CNRS

LMDZ configurations



Catherine RIO

Chercheuse CNRS

Clouds, physical package



Laurent FAIRHEAD

Ingénieur de recherche CNRS

input/output, model versions



Ionela MUSAT

Ingénieure de recherche CNRS

Code structure, install model



Ehouarn MILLOUR

Ingénieur de recherche CNRS

Dynamics, parallelism



Adriana SIMA

Ingénieure de recherche CNRS

Presentation of tutorials



Lionel GUEZ

Ingénieur de recherche CNRS

input files, forcings



Olivier BOUCHER

Chercheur CNRS

Aerosols



Frédérique CHERUY

Chercheuse CNRS

Atmosphère/surface interface

Who are you?

23 participants including 15 PhDs, 5 postdocs, 2 researchers, 2 engineers

Laboratories: LSCE (13), LMD (3), LATMOS (1), Nasa Goddard Space Flight Center, University of Copenhagen, IPG, Cerege, IGE, IAPS (Italy)

17 of you “don't currently use LMDZ”.

Main topics:

- **Regional model**: (6) Asia(2), China(2), Mediterranean
- **Transport** : (3) isotopes, Inca
- **Clouds/flux OA** : Monsoon, convection of aggregation
- **Coupled version** : Orchidee (3)
- **Link with other models** : MAR, aquaplanet, generic model, Dynamico
- **Venus** : 1
- **Paleo** : 6
- **Don't know yet** : 4

Some technical details ...

30 new laptops bought through ANR Convergence and Labex IPSL !

They are all identical.

User : util1

Passwd: !litu@upmc

The only directory usefull for you is **LMDZ** and all others you are going to create .

For PhD students: We can provide you a certificate of attendance (ask Marie-Pierre).

Logistics

Lunch:
Restaurant
Administratif

Campus map



LMD (3rd floor)

Lectures and Practical exercises:
UFR conference room,
Corridor 46/56
2nd floor

Questions: Marie-Pierre Lefebvre



**See you at
the next LMDZ user meeting!**