



**Welcome  
to the 2018 LMDZ training course!**

*17/18/19 December 2018 – 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 (M.Bonazzola,J-B Madeleine, N.Rochetin)
- 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 (J-B Madeleine)
- 15:15-16:15 LMDZ1D (M-P Lefebvre)
- 16:15-17:30 Tutorial N°2: Mandatory part + options (zooming, nudging, tracers, Orchidee, 1D, XIOS,parallelism, physics)

## 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/2018>)

# 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**



**Jean-Baptiste MADELEINE**

Enseignant-Chercheur SU

**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**



**Nicolas ROCHETIN**

Enseignant -chercheur ENS

**Convection, physical package**



**Frédérique CHERUY**

Chercheur CNRS

**Atmosphère/surface interface**

# Who are you?

**28** participants including 14 PhDs, 4 postdocs, 7 researchers, 3 engineers

Laboratories: LSCE (4), LMD or visitors(14), Univ Bordeaux (1), Univ Grenoble (3)

CEA (1), Univ of New Mexico (2), Univ of Exeter (2), ENIT (Tunis)

**15** of you “don't currently use LMDZ”.

## Main topics:

- **Regional model**: 5, Poles (3)
- **Transport** : 4 (isotopes)
- **Clouds/fluxes OA** : 5
- **Link with other models** : Dynamico (2)
- **Other planets** : 2
- **Paleo** : 1
- **Tuning of the model** : 2
- **Curiosity** : 2
- **COSP** : 1

## 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 (T45-55, 2nd floor,  
room 205)

Questions: Marie-Pierre Lefebvre





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

<http://lmdz.lmd.jussieu.fr/le-projet-lmdz/reunion-utilisateurs/2018>