



**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)

## The program (3/3)

- 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 (J-L Dufresne)
- 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?

27 participants including 14 PhDs, 4 postdocs, 6 researchers, 3 engineer

Laboratories: LSCE (4), LMD or visitors(13), Univ Bordeaux (1), Univ Grenoble (3)

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

15 of you “don't currently use LMDZ”.

## Main topics:

- **Regional model**: 5, Poles (3)
- **Transport** : 4 (isotopes)
- **Clouds/flux OA** : 5
- **Dynamico** : 2
- **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 45-55)

Questions: Marie-Pierre Lefebvre





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

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