Welcome
to the 2019 LMDZ training course!

9/10/11 December 2019 – LMD Jussieu

The program (1/3)
Monday

9:00-9:30	Welcome and Introduction (L. Fairhead)
9:30-10:15	General presentation to LMDZ (F. Hourdin)
10 :15-11:30	Code structure, installing the model Tutorial 1 (I. Musat / L. Fairhead)
11:30-11:50	Coffee break
11:50-12:20	Students presentation (1 slide for each)
12:20-12:55	Outputs (L. Fairhead)
12:55-14:00	Lunch
14:00-14:30	Code management (L. Fairhead)
14:30-17:00	Tutorial 1: different versions of the model, aquaplanet, sensitivity tests

The program (2/3)
Tuesday

9:00-11:00 Model physics : - Terrestrial physics (M. Bonazzola / F. Hourdin)
- Planetary physics (E. Millour)

11:00-11:20 Coffee break

11:20-11:50 Configurations/input files/forcings (L. Guez)

11:50-12:20 Aerosols (O. Boucher)

12:20-12:50 LMDZ1D (M.-P. Lefebvre)

12:50-14:00 Lunch

14:00-15:00 Clouds (J-B Madeleine)

15:00-15:20 Presentation of tutorial N°2 (A. Sima)

16:15-17:30 Tutorial N°2: Mandatory part + options (zooming, nudging, tracers, Orchidee, 1D, XIOS,parallelism, physics)

The program (3/3)
Wednesday

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)
11:50-12:20	Parallelism (E. Millour)
12:15-13:15	Tutorial N°2
13:15-14:15	Lunch
14:15-15:45	LMDZ configurations: uses and tuning (F. Hourdin)
15:45-17:00	Tutorials (end)

All the presentations and tutorials texts are/will be on LMDZ website
(http://lmdz.lmd.jussieu.fr/le-projet-lmdz/formation/2019)

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

Chercheure CNRS

Atmosphère/surface interface

Who are you?

31 participants including 15 PhDs, 7 postdocs, 9 researchers and engineers

Laboratories: LMD or visitors(15), IPSL and its laboratories (9), Univ Genève (2), CNRM (1), IGE (1), IUMP6 (1), OCA (1), Univ. Lomé (1)

21 of you “don't currently use LMDZ”.

Main topics:

- **Regional model**: Poles 2, cryosphere/Himalaya 1, Morocco 1
- **Coupling** : 1
- **Sensitivity of model** : 2
- **Isotopes** : 1
- **Emissions** : 1
- **Paleoclimate** : 1
- **Other planets (solar system and exo)** : 6
- **Primitive Earth** : 1
- **Tuning of the model** : 2
- **Curiosity / how it works** : 4
- **Global chemistry-climate simulations** : 1
- **Comparisons to observations** : 1
- **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 useful for you is **LMDZ** and all others you are going to create .

To save paper: we will print presentations on request only.
Reminder: presentations are available at this adress:

https://lmdz.lmd.jussieu.fr/utilisateurs/formation/2019

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

Logistics

Campus map

Lunch:
Restaurant
Administratif

**LMD/IPSL (T45-55,
2nd floor, room 201)**

Questions: Marie-Pierre Lefebvre