

# ORCHIDEE RETREAT

November 2015

- FIRST retreat: OVERVIEW of the model (1,5 day !) : 2010
- DOCUMENTATION retreat (2 days) : 2012
- REVIEW of all PHYSICAL processes (2 days) : 2013
- Today.... TECHNICAL & SCIENTIFIC retreat: 2015

Special thanks for this retreat to FM, BG, JG, MG, NV, AD, PP, and all of you....

# OBJECTIVES

## 1. Clarify and clean the outputs variables:

Check the units (in the outputs files but also in the comments of each module) and define standard units to be used in the future.

Check that the name of the outputs correspond to the calculation done in the code

Update the documentation for the outputs

## 2. Identify output variables that can be dropped by using XIOS (different frequency of output,...)

## 3. Propose variables that are not listed yet in the outputs

## 4. Makes you familiar with XIOS

## 5. Regenerate an updated documentation and « Write an introductory paragraph to the documentation ».

## 6. TEAM BUILDING....

# AGENDA

## Thursday 19th November

8h45-9h15 Welcome & General introduction

9h15-10h45 **Collective review of the outputs**

10h45-11h00 Coffee break

11h00-12h30 **Collective review of the outputs**

12h30-13h30 Lunch with meal trays in Darcy room

13h30-15h00 **Scientific session.** Focus on **Energy and Water** by F. Cheruy/C. Ottlé and A. Ducharne/M. Guimberteau, respectively

Very short scientific presentations

Collective overview of the outputs of the reference global simulations of the last version of the Trunk.

15h00-16h00 **Collective review of the outputs**

16h00-16h15 Coffee break

16h15-17h15 **Collective review of the outputs**

17h15-17h30 **Doxygen** for the documentation + Review of current **datasets** by F. Maignan

17h30-18h00 Discussion on the **simplification of the code; proposition for new « structure »** by P. Peylin, A. Ducharne, J. Ghattas, J. Ryder, ....

# AGENDA

## Friday 20th November

9h15-9h30 **CMIP6: MIPS & outputs** (F. Cheruy & P. Cadule, P. Peylin)

9h30-11h00 **Collective review of the outputs**

11h00-11h15 Coffee break

11h15-12h00 **Scientific session. Focus on Carbon** by B. Guenet and N. Viovy

Very short scientific presentations

Collective overview of the outputs of the reference global simulations of the last version of the Trunk.

12h00-12h30 **Documentation and Website:** (PP, FM,..)

12h30-... Lunch at the restaurant “L'Ardoise” at Jussieu

# Today: How to start...

- **First a « group review of part of the Table » : 1 h**
  - **group1 (42): intersurf.f90 (42)** Josefine Ghattas, Nicolas Vuichard, Claire Magand
  - **group2 (53): sechiba.f90 (53)** Fabienne Maignan, Albert Jornet-Puig, Palmira Messina
  - **group3 (48): hydrol.f90 (48)** Jan Polcher, Ardalan Tootchi, Pascal Maugis, Crystele Leauthaud
  - **group4 (36): diffuco.f90, chemistry.f90 (36)** Philippe Peylin, Natasha MacBean, Aude Valade
  - **group5 (40): hydrolc.f90(29), condveg.f90(6), slowproc.f90(5)** Catherine Ottlé, Agnès Ducharne, Susanna Strada, Nathalie de Noblet (?)
  - **group6 (39): routing.f90(22), enerbil.f90(9), thermosoilc.f90(4), thermosoil.f90(4)** James Ryder, Matthieu Guimberteau, Fuxing Wang, Frédérique Cheruy
  - **group7 (109): stomate\_lpj.f90(109)** Dan Zhu, Jonathan Barichivich, Bertrand Guenet, Nicolas Viovy
  - **group8 (9): lpj\_constraints.f90(2), lpj\_establish.f90(3), lpj\_fire.f90(2), lpj\_gap.f90(1), lpj\_light.f90(1)** Patricia Cadule, Chao Yue
  - **group9 (12): stomate.f90(1), stomate\_npp.f90(6), stomate\_phenology.f90(2), stomate\_season.f90(1), stomate\_turnover.f90(2)** Daniel Goll, Wei Li, Juliette Lathière
- ➔ **groupes 4 et 9 & groupes 7 et 8 & groupes 3 et 5 & groupes 1,2 et 6**
- **Collective review of the whole Table**