

Main activities of ORCHIDEE-Project

- Several commit in the TRUNK (for CMIP6)
- Several BUG found/cleared over the summer
 - Water conservation with 11 layers
 - Restartability : $1 + 1 = 2$
 - Bug with soil freezing + new snow + 11 layers (water conservation)
- New driver by Jan Polcher (open for tests)
- NEWS
 - <https://forge.ipsl.jussieu.fr/orchidee/wiki/Documentation>
- Various
 - Change parameter and variables names (hydrology)
 - Many changes: look (attached to the ppt at the end / added in the News)
 - Comment the line in libIGCM_sys/libIGCM_sys_obelix.ksh
“./usr/local/install/lf6481/bash_laheyfort_setup”

ORCHIDHEE (CM6_v1) : New developments (vs CMIP5)

Biophysic

- 11 layers soil hydrology (done)
- Common soil vertical discretization between Hydrology and Thermics (done)
- New soil thermal properties (USDA soil texture classes) (done)
- Soil freezing following (I. Gouttevin's Phd) (done)
- New 3 layers snow module (Tao's work) (In progress)
- Adjusted albedos (in progress)

Biogeochemistry

- DGVM (done)
- Nitrogen cycle (to be included in Trunk)
- VOC (To be updated)
- FIRE (SPITFIRE) (To be included in Trunk)
- New Land Cover Classes using ESA - ECVIcover product (In progress)
- CROPS – GRASS (Possible improvement late 2015) ?
- PERMAFROST (Possible early 2016) ?

ORCHIDEE next retreat

- 19 – 20 November (only half day the 20)
- Location : Jussieu
- Cleaning of the code (following coding guide lines)
- Specific work on model outputs (units, names,...)
- Organizing team : Fabienne & Bertrand + Nicolas, Josefine, Philippe, Matthieu..
- Dinner for everyone the 19..

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- [https://files.lsce.ipsl.fr/index.php/apps/files?dir=/Shared/ORCHIDEE/FairUse %26 ARTICLES](https://files.lsce.ipsl.fr/index.php/apps/files?dir=/Shared/ORCHIDEE/FairUse%26ARTICLES)
 - ARTICLE_IN_PREP: directory with all articles..
 - INTENDED_STUDIES.doc
 - MODEL_FUNCTIONALITIES.doc
- ➔ A Review will be done at the end of 2015 with a push to everyone to fill the tables (studies and articles in preparation)