Introduction to IPSL modeling tools and environment

— Day 2 —

Institut
Pierre-Simon
Laplace

January 2023, IDRIS
IPSL « Platforme » group

How can you get information about configuration LMDZOR_v6.2.2?

How can you download this specific configuration?

How can you get information about configuration LMDZOR_v6.2.2?

How can you download this specific configuration?

```
cd modipsl/util

./model -h

./model -h LMDZOR_v6.2.2
```

```
./model LMDZOR_v6.2.2
```

In LMDZOR configuration, if you modify LMDZ sources (in modipsl/modeles/LMDZ/libf/), can you directly launch a new simulation?

*not seen in the training

In LMDZOR configuration, if you modify LMDZ sources (in modipsl/modeles/LMDZ/libf/), can you directly launch a new simulation?

NO! You need to compile again!

Where do you compile your configuration? (in which directory?)

Where do you compile your configuration? (in which directory?)

```
cd modipsl/config/LMDZOR_v6

./compile_lmdzor.sh -h
```

What do you find in config/…/EXPERIMENT directory?

What do you find in config/…/EXPERIMENT directory?

You will find **predefined experiments that can be done with the executable create for this configuration**.

For example for LMDZOR configuration, you can choose between LMDZ or LMDZOR types of experiments.

What is the name of the command to create your own experiment directory (containing the Job_, run.card, etc)?

What is the name of the command to create your own experiment directory (containing the Job_, run.card, etc)?

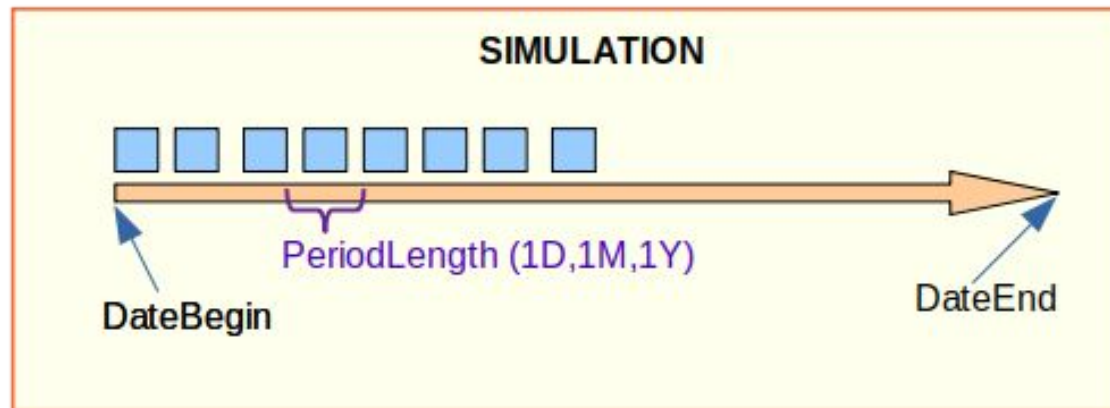Once you have copied `config.card` file from config/…/EXPERIMENTS/…/ :

```
../../libIGCM/ins_job
```

Did you understand what is a period in a simulation?

Institut Pierre-Simon Laplace

IPSL

Did you understand what is a period in a simulation?

A simulation is a succession of **periods**:

At the end of each period, the simulation creates output files used as input files for the next period.

`PeriodNb` (in Job_ file) is the number of periods that will be calculated during *one* job (given the job CPU time).

Do you know who to write to if you have a problem with compilation or execution?

Do you know who to write to if you have a problem with compilation or execution?

platform-users@listes.ipsl.fr

=> subscribe!!   (cf exercice 0.3)