

Data and Analyse

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1. Data

1.1. Start with CMIP archives

We highly recommend to read the user's guide of CMIP projects available at: <https://pcmdi.llnl.gov/mips/>

1.2. Access CMIP archives

CMIP archives are available through the ESPRI platform including CICALAD and [ClimServ?](#) machines. You can create an account on ESPRI mesocentre to transparently log to CICALAD or [ClimServ?](#) at <https://meso-account.ipsl.fr/>.

1.3. Dive into CMIP archives at IPSL

The IPSL-CM model produces CMIP-compliant files. The CMIP convention include the CF convention with additional rules from the WIP panel (ex. a CMIP file must describe only one variable). Once the IPSL-CM data are quality checked, the CMIP-compliant files are migrated to a dedicated filesystem at TGCC following the CMIP directory structure. This part of the TGCC filesystem is read-only mounted on the ESPRI mesocentre. On CICALAD and [ClimServ?](#), the CMIP data archives are then available under :

```
/bdd/CMIP6
```

```
/bdd/CMIP5
```

The CMIP data from the other GCMs are downloaded at the IDRIS and IPSL. They are organized in the same CMIP directory structure and transparently available in the same /bdd root.

Example: /bdd/CMIP5/output/IPSL provides access to the **whole** IPSL-CM data production for CMIP5 exercice. /bdd/CMIP5/output/BCC provides access to BCC data requested by the IPSL community.

We adopted an "on-demand" process to add CMIP data from other GCM. Please send your request at gripsl@ipsl.fr with the following template:

```
cat < EOF > my_template.txt
project=CMIP5
experiments=historical amip
models=IPSL-CM5A-LR CNRM-CM5
ensembles=all
variables[atmos][3hr]=cltc tas
variables[land][fx]=sftgif
variables[seaIce][mon]=sic evap
EOF
```

1.4. What's a dataset?

A "dataset" (as defined by ESGF) is **one** version of a data set resulting from a single simulation (i.e., characterised by a unique option of each CMIP facet before the version such as the institute, the model, the domain, the experiment, the frequency, the ensemble, etc.).

Examples: CMIP5 dataset: CMIP5/output1/IPSL/IPSL-CM5A-LR/ 1pctCO2/mon/atmos/Amon/r1i1p1/v20110427

A dataset is the finest granularity for ESGF publication.

2. Analyse