

## Computing centers and environments

The supported computing centers (also called computing environment) that can be used with the IPSL Climate Modeling Center tools and models are described in this chapter.

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## 1. [IDRIS](#)

The IDRIS (*Institute for Development and Resources in Intensive Scientific Computing*) is one of the 3 national high performance computing centers of CNRS. The center is located at Orsay (Essonne). All of the IPSL models and tools are supported and maintained for the IDRIS's CPU machine.

[IDRIS environment](#)

## 2. [TGCC](#)

The TGCC (*Très Grand Centre de Calcul*) is another one of the 3 national high performance computing centers of CNRS. The center is located on the CEA site, at Bruyères-le-Châtel (Essonne). All of the IPSL models and tools are supported and maintained for the TGCC's CPU machine.

[TGCC environment](#)

## 3. [CINES](#)

The CINES (*Centre Informatique National de l'Enseignement Supérieur*) is the third national high performance computing centers of CNRS. The center is located at Montpellier (Hérault). The tools modipsl/libIGCM are not maintained for this center's machine.

[CINES environment](#) (not supported)

## 4. [LSCE](#)

The LSCE (*Laboratoire des Sciences du Climat et de l'Environnement*) has his own cluster on which you can use a part of the IPSL models and tools.

[LSCE computing environment](#)

## 5. [IPSL ESPRI mesocenter](#)

ESPRI IPSL-UPMC, located at Jussieu in Paris and ESPRI IPSL-X, located at Polytechnique, Palaiseau (Essonne) contain the new computing clusters **spirit** and **spiritix** and as well the old clusters **ciclad** and **climserv**. A part of the IPSL models and tools are supported for these machines.

[ESPRI computing clusters](#)

## 6. [Local PC or other cluster](#)

[Short guide to install a configuration on a local PC or other cluster.](#)

## 7. [Shared files](#)

Information about the necessary files to properly use the IPSL tools and models.

- [Shared files in synchronized repository IGCM](#)
- [Informations on nudges files and limit.nc predefined](#)