Presentation and analysis of the IPSL and CNRM climate models used in CMIP5

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After several years of development, the French IPSL¹ and CNRM²-CERFACS³ modelling groups are presenting to the international scientific community the climate simulations they have prepared as part of the 5th Phase of the Coupled Model Intercomparison Project (CMIP5).

The following set of manuscripts provides a detailed description and evaluation of the coupled models and of their individual components. It also presents an analysis of the simulations in terms of internal climate variability, climate response to natural and anthropogenic forcings, physical, chemical and biogeochemical feedbacks, and regional studies.

This work benefitted tremendously from the national INSU/LEFE “MissTerre” project (P.I. P. Braconnot and S. Planton) which aims at strengthening collaborations among the French research teams involved in climate modeling. Several workshops and substantial data and expertise exchanges has been possible thanks to this project. This joint Special Issue analyzing simulations from the two models is one of the main results of this collaboration.

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More information about the IPSL-CM5 and CNRM-CM5 climate models can be found at: <http://icmc.ipsl.fr/> and at <http://www.cnrm.meteo.fr/cmip5/>, respectively.

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This special collection was coordinated by
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