



New datasets and services for french DRIAS portal

Mary Kerdoncuff, Jean-Michel Soubeyroux, Beatrice Cassaigne, Flore Tocquer, Patrice Jardin, and Guillaume Baillon

METEO-FRANCE, Directorate of Climatology and Climate Services, Toulouse, France (maryvonne.kerdoncuff@meteo.fr)

A particular attention has been paid to select and elaborate a new atmospheric dataset for the climate change adaptation purposes.

First more ECVs (temperature, liquid/solid precipitation, specific humidity, surface wind and radiation) and indices have been specified in order to support the adaptation in different sectors as agriculture, water resource, energy, health.

But especially all the process from the selection of GCM/RCM couples to the bias correction and the integration in the portal has been improved :

- GCM/RCM couples have been selected through rigorous criteria as eliminating incorrect models, climate spread assesment, GCM/RCM consistency, RCM diversity, . . .
- a comparison study of different correction-methods with and without weather type consideration, has been carried out
- Adamont correction-bias method has been applied
- control and validation of the data at the different steps have been implemented
- compliance with CMOR format and cordex-adjust recommendations has been checked
- the different calendars have been homogeneized
- a lot of new documentation has been produced

With this new dataset, new services will be set up on DRIAS portal like the possibility to select the most convenient GCM/RCM model through delta T/delta P diagram.

Otherwise a new impact dataset for mountains areas (Alps and Pyrenees) has also been integrated. These new projections inform about the evolution of different climate variables (temperature, precipitation, snow cover) by mountain massif and by altitude level. It also provides interesting indices as snowpack, number of days with snow depth over some thresholds. This new dataset allows all sorts of impact studies both for winter tourism as well as for agriculture.