

Distribution of the CHIMERE model:

How is the code distributed?

The model is distributed on a dedicated website.

<https://www.lmd.polytechnique.fr/chimere/>

The distribution is done on a version validated with numerous measurements, thus with a quality control procedure. This procedure is justified by the fact that the model is then used directly for forecasts by the INERIS (Prevair), the AASQA and for analysis studies by research laboratories. There is therefore no distribution of intermediate development versions as on GitHub or other.

Who distributes the code?

The model is distributed at the LMD and only on this site. This allows to ensure the stability of the distributed version and to know who downloads it in order to be able to follow up the users, especially for the answers to the questions. This follow-up is requested by the INSU which has made this model a "national tool".

How is the model distributed and monitored?

The model is distributed under a free license, so anyone can download it and modify it. From the moment it is modified, there is no guarantee to find the results of the versions followed, validated with observations and thus distributed. The development team doesn't have to answer questions and follow up on the modifications either.

How to publish with the code?

Most journals require code referencing to publish analyses. All you need to do is:

- reference the last version distributed by giving the address of the CHIMERE website (currently v2020r3)
- create an archive containing the data, scripts and routines modified from the distributed version and make this archive available on a web site.

How to sustain the changes made?

The model is developed under a free license, which also implies keeping the developers informed of changes that may be of interest to the user community. It is a good idea to contact the development team (chimere@lmd.polytechnique.fr) to see if it is feasible to integrate the changes into the development version. If the developments are also under a free license, it is possible that these developments will then be part of the next distributed/approved version.