Climateprediction.net: Climate research and Free Software

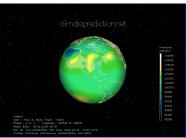


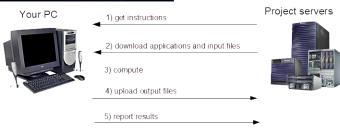
Juan Antonio Añel

juan.anel@smithschool.ox.ac.uk aetherlux@es.gnu.org

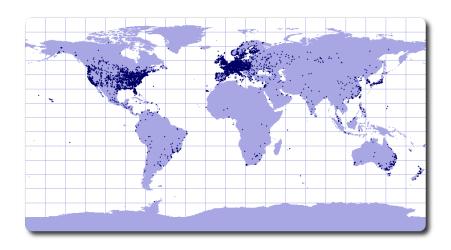
> February 2, 2013 FOSDEM 2013

Climateprediction.net & Weatherathome.net





Climateprediction.net & Weatherathome.net

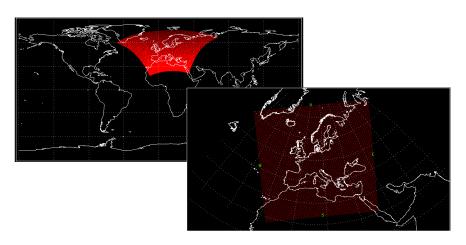


Climateprediction.net & Weatherathome.net



FOR NETWORK COMPUTING
- LGPLv3 -

Weatherathome Europe



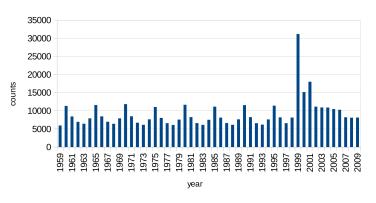
Weatherathome Europe

- HADAM3P (1.875x 1.25, 19 levels, 15 minutes timestep)
- HADRM3P (0.44x 0.44, 19 levels, 5 minutes timestep)
- coupling between the models every 6 hours
- > 300.000 years simulated
- period: 1960-2010

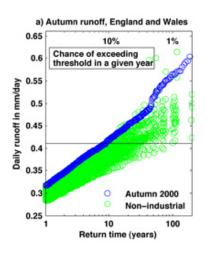
Model licenses...

Weatherathome Europe == workunits sent out

Statistics for Weatherathome - Europe



Probabilistic Event Attribution



From the technical side

- CPDN vs HPC infrastructure
 - compilers
 - heating
 - development for GNU/Linux systems
- the big bottleneck: data transfer
- GNU/Linux upload and download servers + 1TB MySQL
- xml files to generate initial simulations
- next steps: dual, virtualbox + only GNU/Linux support

How to help usmate prediction net

- * Install and run it, I need a big Free Software community contributing to the project
- * Your time: internships or teleworking for the technical or scientific parts of the project. Just send me an email
- * Donations: :-) through climateprediction.net

Contact: Juan A. Añel juan.anel@smithschool.ox.ac.uk

hadsm3
User: Paul D. Buck; Team: (None)
aetherlux@es.gnu.org
Phase: 1 of 3 / Timestep: 224551 of 259248
Model Date: 29/11/1823 03: 30
Run II: 121x_100113023, CPU Time: 0160: 44:16 (2.58 s/TS)
Togele Bit. 1-5N