Meta data description for RCM model simulations in ENSEMLES RT3

ERA40@50 Simulations

1. General:

1.1 Name of model   PROMES

1.2 Version   2005

1. 3 References

Castro, M., Fernández, C., Gaertner, M.A., 1993. "Description of a mesoscale atmospheric model". In: Díaz, J.I., Lions, J.L. (Eds.) Mathematics Climate and Environment. Rech. Math. Appl. Ser. Mason, pp. 230 -253.

Sanchez, E., Gallardo, C., Gaertner, M.A., Arribas, A., Castro, M. 2004. "Future climate extreme events in the Mediterranean simulated by a regional climate model: a first approach". Global and Planetary Change, 44, pp. 163-180.

1.4 URL
 http://momac.uclm.es/

2. Model setup:

2.1 Grid specifications:
2.1.1 Projection   Lambert Conformal (50kmx50km)

2.1.2 Number of horizontal grid points   123x113

2.1.3 Number vertical levels   28

2.1.4 Type of vertical coordinate   Sigma

2.2 Soil and surface specifications
2.2.1 Name of soil and SVAT model   SECHIBA

2.2.2 Physiographical data

orography, GTOPO30.
LSM, GTOPO30.
vegetation, OLSON, references:
- Olson, J.S. (1994a) "Global ecosystem framework - definitions",
"USGS EROS Data Center Internal Report",Sioux Falls, SD. pp 37
- Olson, J.S. (1994b) "Global ecosystem framework - translation strategy",
"USGS EROS Data Center Internal Report",Sioux Falls, SD. pp 39

soil: 7 temperature levels, 2 moisture levels.

2.3 External Forcings

- *solar constant*: 1395.6 W/m2

- *green house gas concentration*: Anual values of equivalent CO2 (ppmv) from 336.16 in 1960 to 445.06 in 2001. These data were taken from http://crgd.atmos.uiuc.edu. These data are the same to those at IPCC.
pero seran identicos a los de IPCC.

- aerosols: not considered for this simulation.
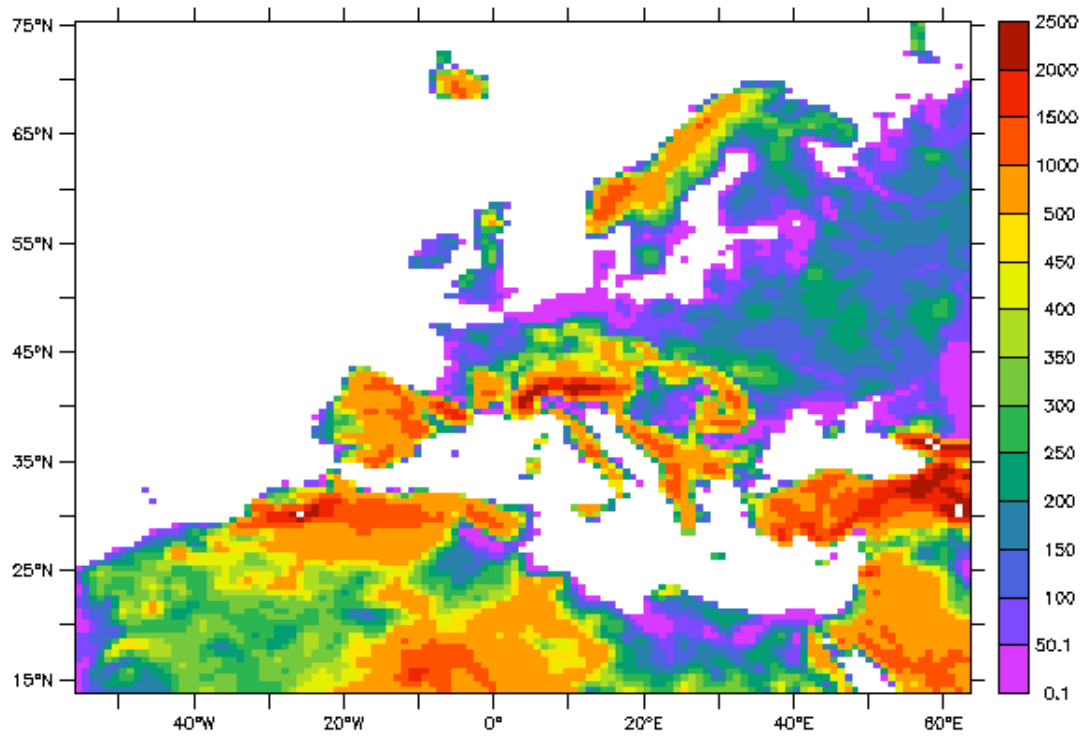
4. Additional information on model set up

details of the experiment not yet covered by the description above (max. 1 page)

5. Information on the performance

e.g. known issues of the model run; specific systematic biases; behaviour with respect to identifiable extreme events (flooding and/or heat waves) *(max 2 pages incl. figures)*
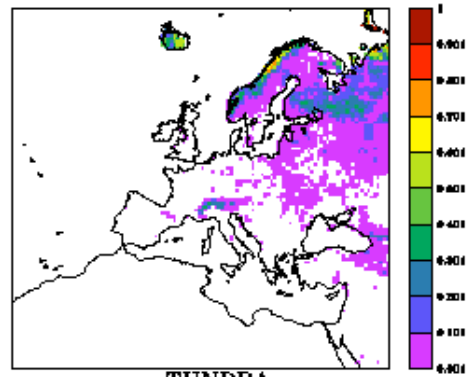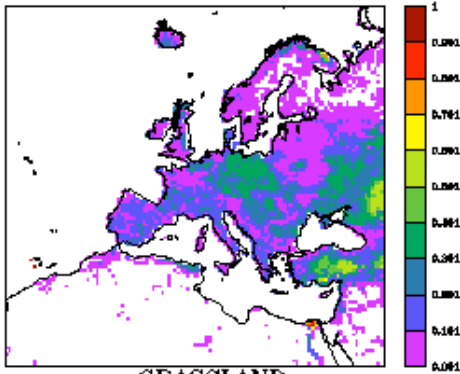
6. Email address for contact person:
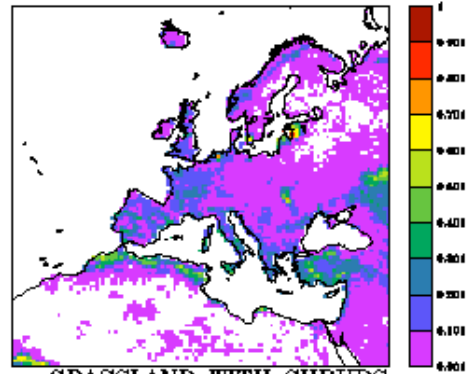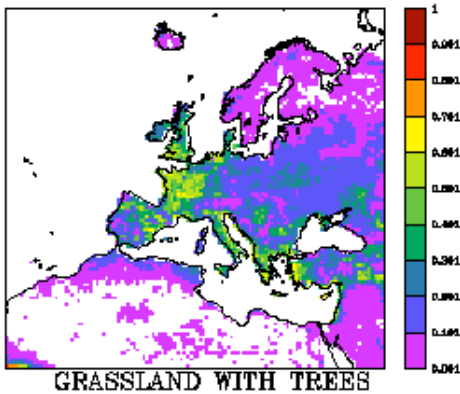
Manuel.Castro@uclm.es
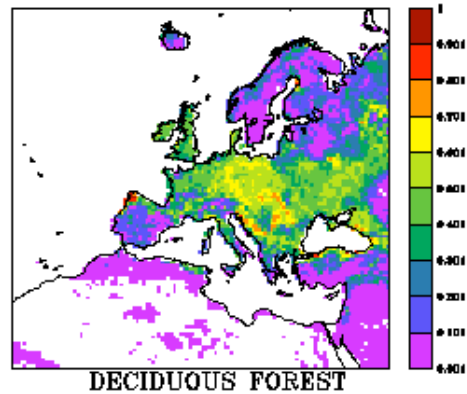
Orography (meters)

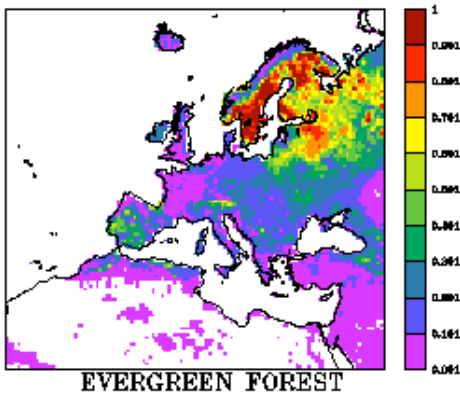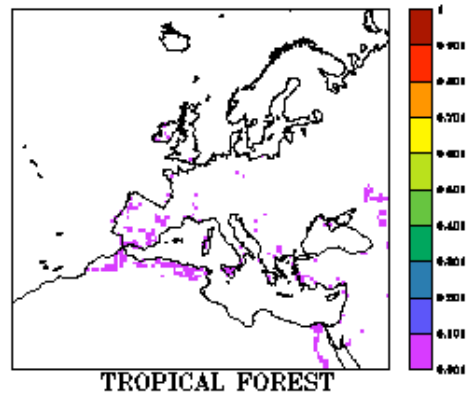BARE SOIL

TUNDRA

GRASSLAND

GRASSLAND WITH SHRUBS

GRASSLAND WITH TREES

DECIDUOUS FOREST

EVERGREEN FOREST

TROPICAL FOREST