Meta data description for RCM model simulations in ENSEMLES RT3

ERA40@50 Simulations

1. General:

1.1 Name of model: REMO

1.2 Version: 5.7

1. 3 Reference: Jacob, D., 2001: A note to the simulation of the annual and inter-annual

variability of the water budget over the Baltic Sea drainage basin. Meteorology and Atmospheric Physics, Vol.77, Issue 1-4, 61-73

Jacob, D., U. Andrae, G. Elgered, C. Fortelius, L. P. Graham, S. D. Jackson, U. Karstens, Chr. Koepken, R. Lindau, R. Podzun, B. Rockel, F. Rubel, H.B. Sass, R.N.D. Smith, B.J.J.M. Van den Hurk, X. Yang, 2001: A Comprehensive Model Intercomparison Study Investigating the Water Budget during the BALTEX-PIDCAP Period. Meteorology

and Atmospheric Physics, Vol.77, Issue 1-4, 19-43.

1.4 URL: http://www.mpimet.mpg.de/?id=73&L=1

2. Model setup:

2.1 Grid specifications:

2.1.1 Projection: Rotated spherical coordinate system

2.1.2 Number of horizontal grid points: 109x121

2.1.3 Number vertical levels: 27

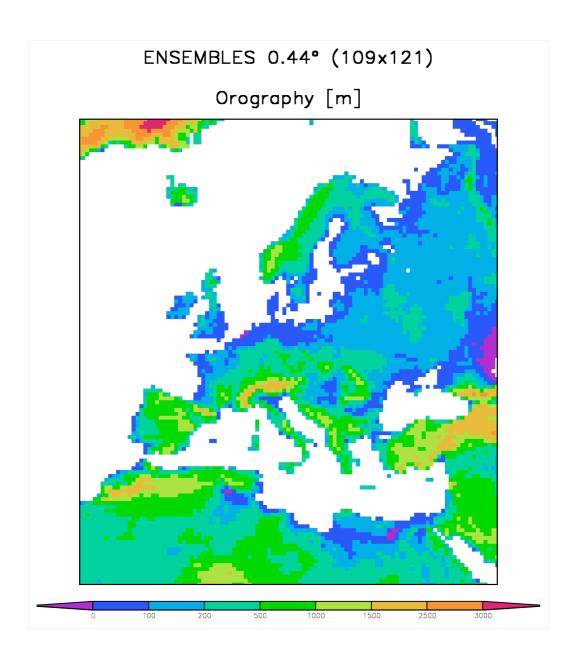
2.1.4 Type of vertical coordinate: Hybrid

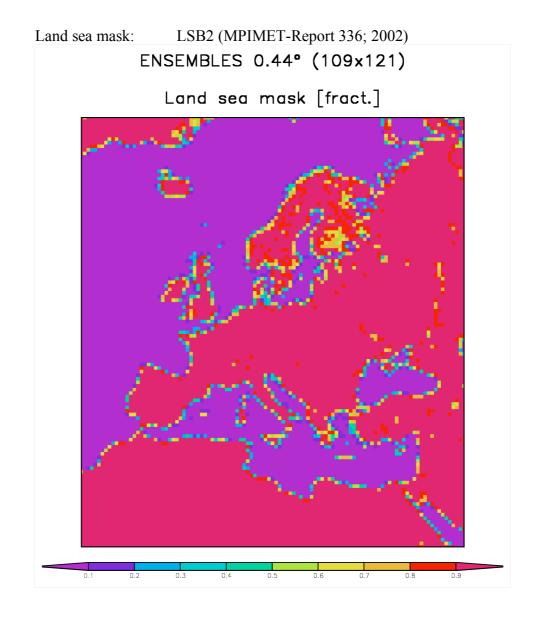
2.2 Soil and surface specifications

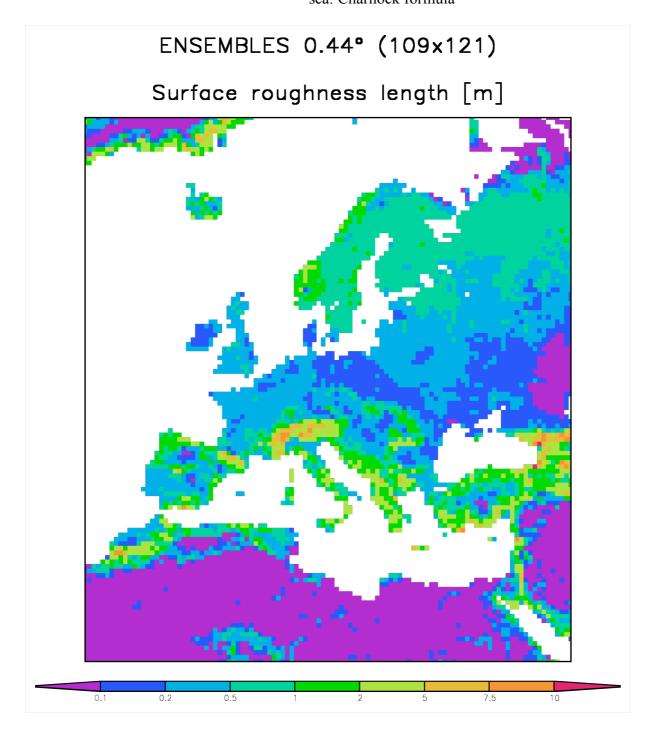
2.2.1 Name of soil and SVAT model. -/-

2.2.2 Physiographical data:

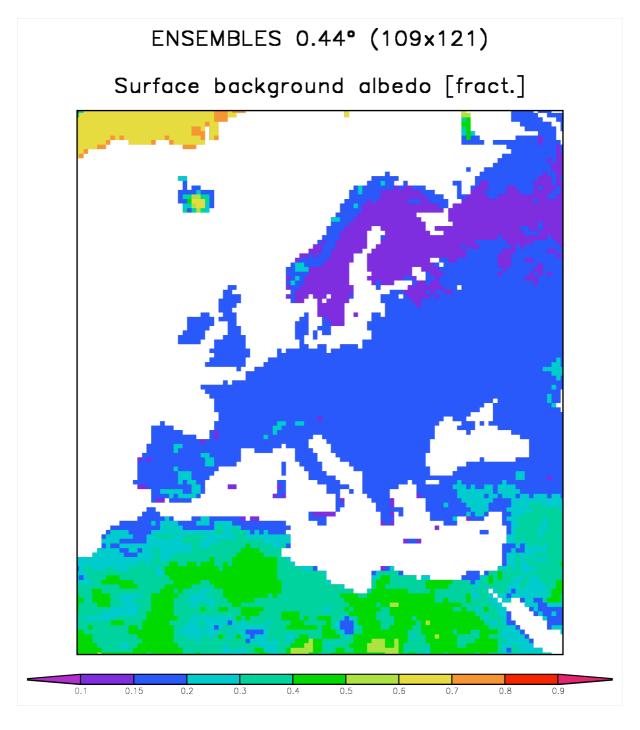
Orography: GTOPO30



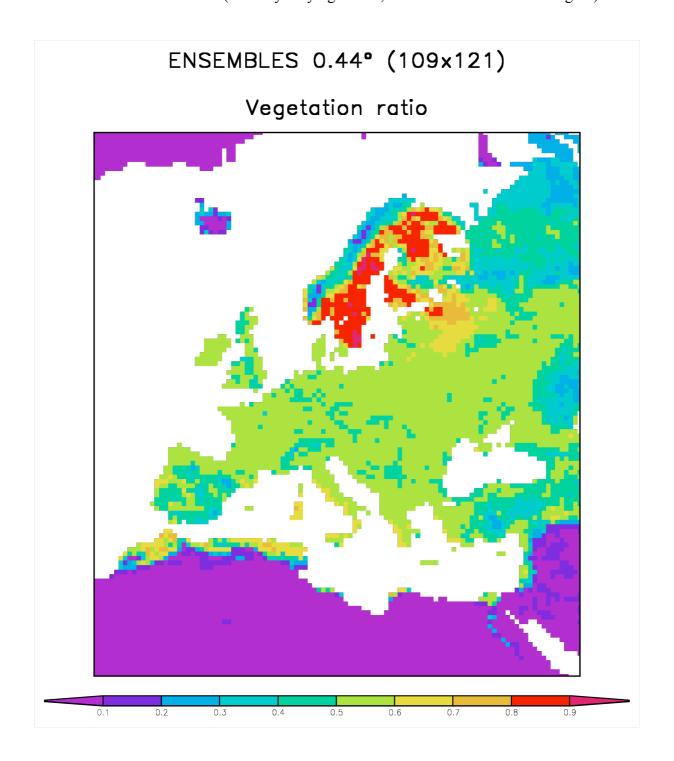




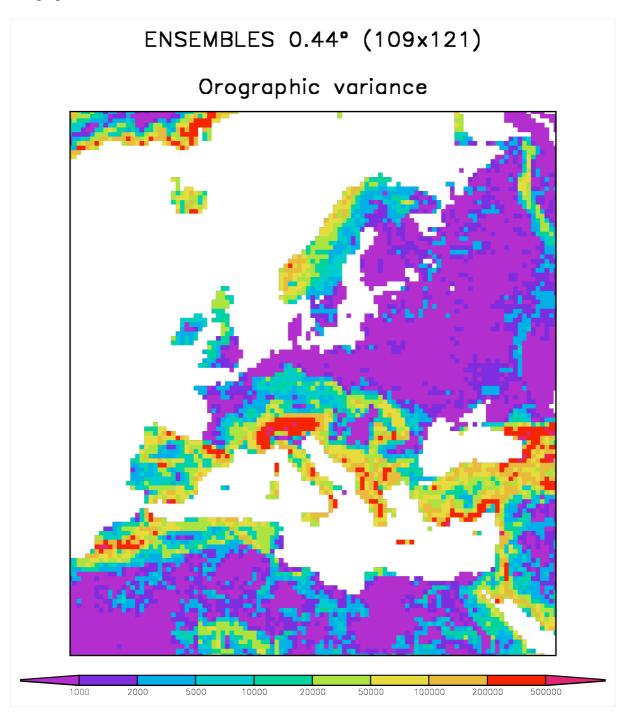
(monthly varying values; annual mean is shown in figure)



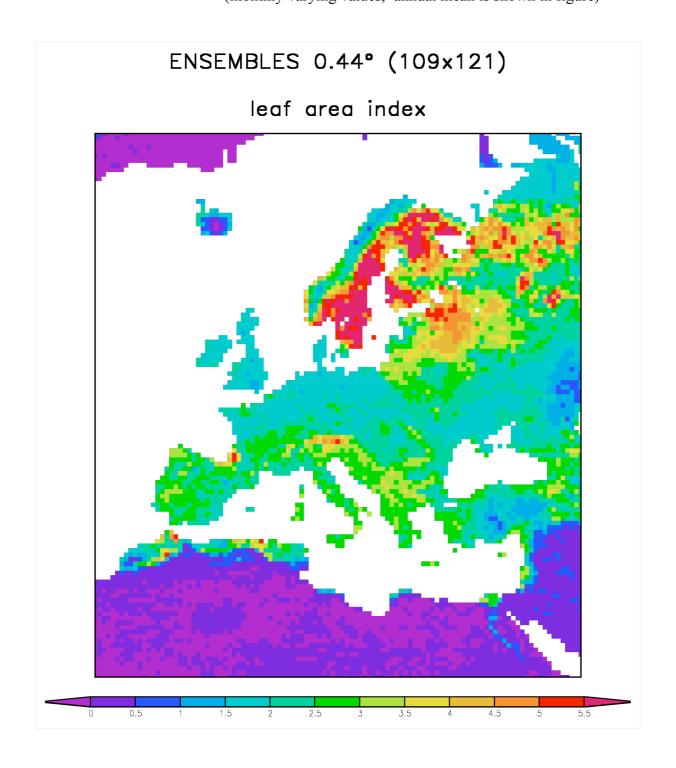
Vegetation ratio: LSB2 (monthly varying values; annual mean is shown in figure)



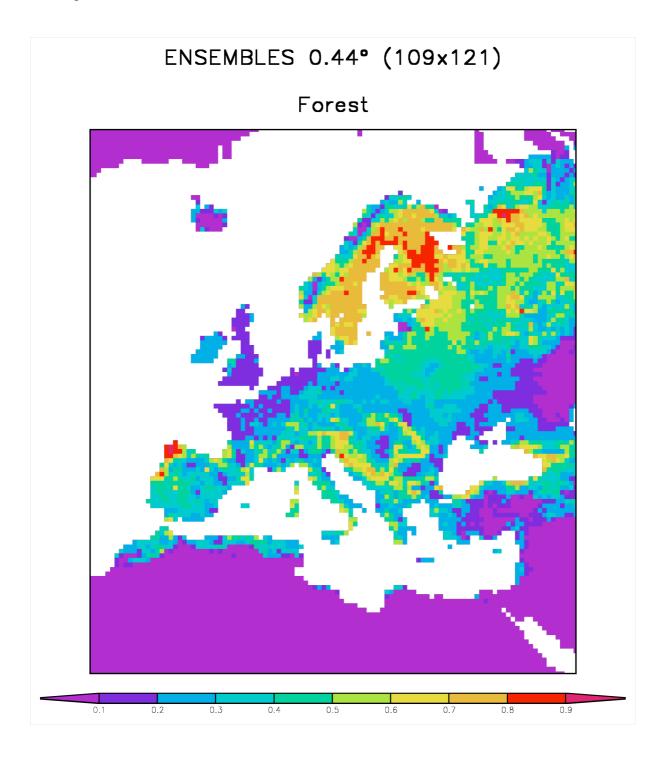
Orographic variance: GTOPO30



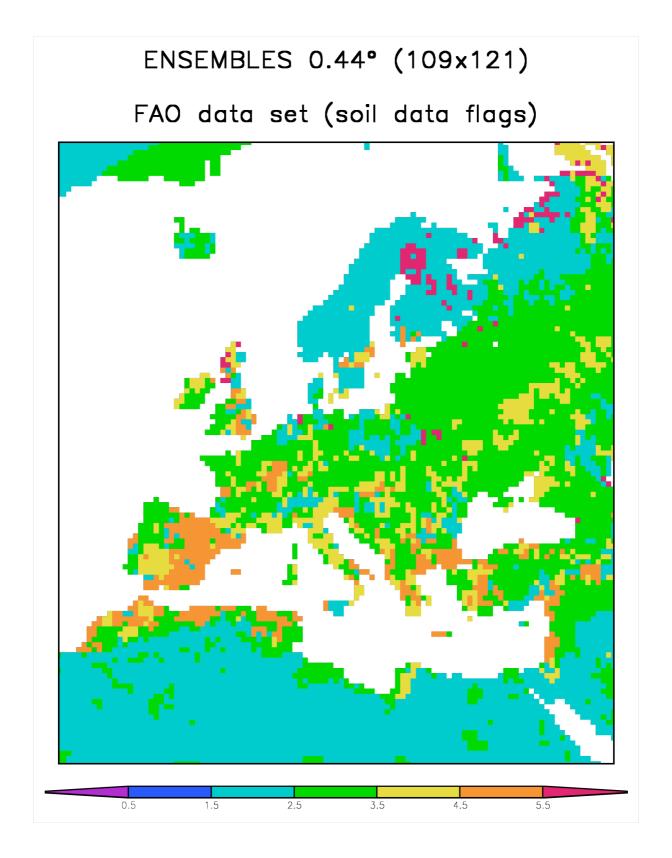
Leaf area index: LSP2 (monthly varying values; annual mean is shown in figure)



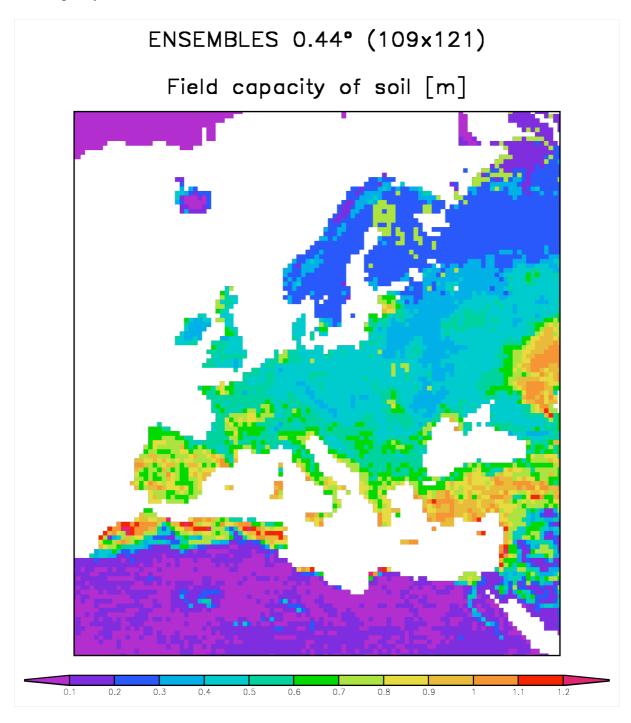
Forest partition: LSP2



Soil data flags: FAO



field capacity of soil: LSP2



2.3 External Forcings:

- fixed solar constant

- fixed GHC concentrations (for comparison also a run with changing GHC-concentrations has

been carried out)

- aerosol forcing: TANRE background aerosol

(temporal and spatial constant)

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:

daniela.jacob@zmaw.de and philip.lorenz@zmaw.de.